Appendix B
Laboratory Reports
(On CD)

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

Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

October 05, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/14/2011
Group Number: 1266159
SDG: DE242
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-030-SA7-SS-0.0-0.5 Soil	6404504
SL-034-SA7-SS-0.0-0.5 Soil	6404505
SL-035-SA7-SS-0.0-0.5 Soil	6404506
SL-037-SA7-SS-0.0-0.5 Soil	6404507
SL-040-SA7-SS-0.0-0.5 Soil	6404508
SL-041-SA7-SS-0.0-0.5 Soil	6404509
SL-070-SA7-SS-0.0-0.5 Soil	6404510
SL-071-SA7-SS-0.0-0.5 Soil	6404511
SL-073-SA7-SS-0.0-0.5 Soil	6404512
SL-146-SA7-SS-0.0-0.5 Soil	6404513
SL-338-SA5B-SB-7.0-8.0 Soil	6404514
SL-341-SA5B-SB-4.0-5.0 Soil	6404515
SL-341-SA5B-SB-9.0-10.0 Soil	6404516
SL-342-SA5B-SB-4.0-5.0 Soil	6404517
SL-342-SA5B-SB-9.0-10.0 Soil	6404518
TB-091311 Water	6404519

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

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

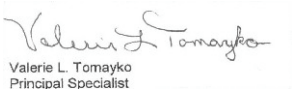
Lancaster Laboratories

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Analysis Report

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

Respectfully Submitted,



Valerie L. Tomayko
Principal Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-030-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA7-SS-0.0-0.5

LLI Sample # SW 6404504
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:55

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4201 SDG#: DE242-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1

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SSFL Area IV Collocated Soil Sampling
SL-030-SA7-SS-0.0-0.5

LLI Sample # SW 6404504
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:55

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4201 SDG#: DE242-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzoic acid 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.49	J	0.34	1.7		1
10138	Anthracene	120-12-7	0.97	J	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	2.6		0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	3.1		0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	10		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	2.6		0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	3.1		0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	10		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	76		6.0	18		1
10138	Fluoranthene	206-44-0	18		0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.3		0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	7.4		0.67	1.7		1
10138	Pyrene	129-00-0	11		0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	7.0	U	7.0	7.0		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1
10401	MCPA	94-74-6	76	U	76	250		1

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Account # 13013

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Collected: 09/13/2011 14:55

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E4201 SDG#: DE242-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.20	U	0.20	0.20		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1
	Reporting limits were raised due to interference from the sample matrix.							
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.5	J	2.1	5.0		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	3.1	J	0.80	3.4		1
01363	p,p-DDD	72-54-8	0.066	U	0.066	0.34		1
01363	p,p-DDE	72-55-9	2.4		0.33	1.7		5
01363	p,p-DDT	50-29-3	11		0.33	1.7		5
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	1.4	U	1.4	1.4		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.40	U	0.40	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34		1
01363	Endrin	72-20-8	0.45	U	0.45	0.45		1
01363	Endrin Aldehyde	7421-93-4	0.70	U	0.70	0.70		1
01363	Endrin Ketone	53494-70-5	0.066	U	0.066	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.46	U	0.46	0.46		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.20	U	0.20	0.34		1
01363	Toxaphene	8001-35-2	30	U	30	30		1
	The samples were injected following maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	10	U	10	33		10
10225	Aroclor 5442	12642-23-8	10	U	10	33		10
10225	Aroclor 5460	11126-42-4	450		10	33		10
10225	PCB-1016	12674-11-2	3.3	U	3.3	17		10
10225	PCB-1221	11104-28-2	3.3	U	3.3	17		10
10225	PCB-1232	11141-16-5	3.3	U	3.3	17		10
10225	PCB-1242	53469-21-9	3.3	U	3.3	17		10
10225	PCB-1248	12672-29-6	3.3	U	3.3	17		10
10225	PCB-1254	11097-69-1	160		3.3	17		10
10225	PCB-1260	11096-82-5	42		3.9	17		10
10225	PCB-1262	37324-23-5	3.3	U	3.3	17		10
10225	PCB-1268	11100-14-4	3.3	U	3.3	17		10

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Collected: 09/13/2011 14:55

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E4201 SDG#: DE242-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,600		6.02	19.9		1
07914	Boron	7440-42-8	4.23	J	0.358	4.98		1
01650	Calcium	7440-70-2	3,080		2.49	19.9		1
01654	Iron	7439-89-6	18,100		2.60	19.9		1
01656	Lithium	7439-93-2	23.9		0.62	2.0		1
01657	Magnesium	7439-95-4	4,110		0.438	9.95		1
06958	Manganese	7439-96-5	263		0.0358	0.498		1
10145	Phosphorus	7723-14-0	439		0.348	9.95		1
01662	Potassium	7440-09-7	3,300		11.2	49.8		1
01667	Sodium	7440-23-5	75.3	J	5.92	99.5		1
07968	Strontium	7440-24-6	17.9		0.0249	0.498		1
06969	Tin	7440-31-5	2.91	J	0.318	9.95		1
06970	Titanium	7440-32-6	1,250		0.0707	0.995		1
10146	Zirconium	7440-67-7	2.73	J	0.458	4.98		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.233		0.0722	0.195		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.13		0.0781	0.390		2
06126	Barium	7440-39-3	96.9		0.103	0.390		2
06127	Beryllium	7440-41-7	0.606		0.0156	0.0976		2
06128	Cadmium	7440-43-9	0.224		0.0429	0.0976		2
06131	Chromium	7440-47-3	17.1		0.117	0.390		2
06132	Cobalt	7440-48-4	5.89		0.0195	0.0976		2
06133	Copper	7440-50-8	9.27		0.0781	0.390		2
06135	Lead	7439-92-1	17.1		0.010	0.195		2
06138	Molybdenum	7439-98-7	0.634		0.0488	0.0976		2
06139	Nickel	7440-02-0	11.0		0.0976	0.390		2
06141	Selenium	7782-49-2	0.212	J	0.0566	0.390		2
06142	Silver	7440-22-4	0.0276	J	0.0139	0.0976		2
06145	Thallium	7440-28-0	0.275		0.0293	0.0976		2
06148	Vanadium	7440-62-2	35.9		0.0215	0.0976		2
06149	Zinc	7440-66-6	84.3		0.547	2.93		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0236	J	0.0068	0.0965		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1		0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.0	U	9.0	30.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1

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E4201 SDG#: DE242-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.75	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.52	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11258SLA026	09/19/2011 15:28	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11258SLC026	09/22/2011 12:46	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11258SLC026	09/16/2011 07:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11258SLA026	09/15/2011 18:15	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112580024A	09/19/2011 22:55	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112600024A	09/19/2011 16:13	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112620013A	09/21/2011 20:29	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112620013A	09/21/2011 20:44	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112600018A	09/21/2011 19:01	Jessica L Miller	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112620013A	09/20/2011 03:55	David V Hershey Jr	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112600018A	09/19/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112580024A	09/15/2011 22:00	Elaine F Stoltzfus	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112600024A	09/19/2011 09:20	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	112575708003	09/23/2011 16:50	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112575708003	09/22/2011 14:03	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112575708003	09/23/2011 16:50	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112575708003	09/23/2011 16:50	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112575708003	09/22/2011 14:03	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112575708003	09/23/2011 16:50	Eric L Eby	1

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

Sample Description: **SL-030-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-030-SA7-SS-0.0-0.5

LLI Sample # SW 6404504
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:55

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4201 SDG#: DE242-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	112575708003	09/22/2011 14:03	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112575708003	09/22/2011 14:03	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112575708003	09/23/2011 16:50	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112575708003	09/25/2011 07:00	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112575708003	09/22/2011 14:03	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112575708003	09/22/2011 14:03	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112575708003	09/22/2011 14:03	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112575708003	09/22/2011 14:03	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112571026001A	09/16/2011 09:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112571026001A	09/16/2011 09:33	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112571026001D	09/16/2011 09:33	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112571026001A	09/16/2011 09:33	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112571026001A	09/16/2011 09:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112571026001A	09/16/2011 09:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112571026001A	09/16/2011 09:33	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112571026001A	09/16/2011 09:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112571026001A	09/16/2011 09:33	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112571026001C	09/16/2011 09:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112571026001A	09/16/2011 09:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112571026001B	09/16/2011 09:33	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112571026001A	09/16/2011 09:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112571026001A	09/16/2011 09:33	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112571026001A	09/16/2011 09:33	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112571026001A	09/16/2011 09:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112575711002	09/16/2011 09:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112575708003	09/15/2011 23:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112571026001	09/15/2011 23:08	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112575711002	09/16/2011 02:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11259621202B	09/17/2011 18:05	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11258621201A	09/16/2011 05:04	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11265243201A	09/27/2011 22:59	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11259621202B	09/16/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11258621201A	09/15/2011 06:15	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11265039402A	09/22/2011 10:50	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11265243201A	09/22/2011 10:55	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11259162402B	09/16/2011 23:10	Scott W Freisher	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-034-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA7-SS-0.0-0.5

LLI Sample # SW 6404505
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 12:15

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4202 SDG#: DE242-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	40	J	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170		1
04688	Chrysene	218-01-9	17	J	17	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	330		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170		1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	230	J	17	330		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	33	U	33	170		1
04688	4-Methylphenol	106-44-5	33	U	33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	33	U	33	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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

Sample Description: **SL-034-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA7-SS-0.0-0.5

LLI Sample # SW 6404505
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 12:15

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4202 SDG#: DE242-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	17	J	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzoic acid 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.33	U	0.33	1.7		1
10138	Anthracene	120-12-7	0.41	J	0.33	1.7		1
10138	Benzo(a)anthracene	56-55-3	3.4		0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	24		0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	23		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	11		0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	25		0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18		1
10138	Dibenz(a,h)anthracene	53-70-3	5.5		0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Fluoranthene	206-44-0	5.0		0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	5.6		0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.98	J	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	1.4	J	0.67	1.7		1
	The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.							
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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

Sample Description: SL-034-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA7-SS-0.0-0.5

LLI Sample # SW 6404505
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 12:15

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4202 SDG#: DE242-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	9.9	U	9.9	9.9		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1
10401	MCPA	94-74-6	120	U	120	250		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.19	U	0.19	0.19		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.33	U	0.33	0.83		5
01363	Alpha BHC	319-84-6	0.17	U	0.17	0.83		5
01363	Beta BHC	319-85-7	0.30	U	0.30	0.83		5
01363	Gamma BHC - Lindane	58-89-9	0.17	U	0.17	0.83		5
01363	Chlordane	57-74-9	7.1	J	4.0	17		5
01363	p,p-DDD	72-54-8	0.33	U	0.33	1.7		5
01363	p,p-DDE	72-55-9	2.4		0.33	1.7		5
01363	p,p-DDT	50-29-3	4.1	U	4.1	4.1		5
01363	Delta BHC	319-86-8	0.18	U	0.18	0.83		5
01363	Dieldrin	60-57-1	0.33	U	0.33	1.7		5
01363	Endosulfan I	959-98-8	0.22	U	0.22	0.83		5
01363	Endosulfan II	33213-65-9	0.33	U	0.33	1.7		5
01363	Endosulfan Sulfate	1031-07-8	1.4	U	1.4	1.7		5
01363	Endrin	72-20-8	0.33	U	0.33	1.7		5
01363	Endrin Aldehyde	7421-93-4	0.33	U	0.33	1.7		5
01363	Endrin Ketone	53494-70-5	0.33	U	0.33	1.7		5
01363	Heptachlor	76-44-8	0.30	U	0.30	0.83		5
01363	Heptachlor Epoxide	1024-57-3	0.33	U	0.33	0.83		5
01363	Methoxychlor	72-43-5	1.7	U	1.7	8.3		5
01363	Mirex	2385-85-5	1.3	U	1.3	1.7		5
01363	Toxaphene	8001-35-2	11	U	11	33		5

The samples were injected following maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	10	U	10	33		10
10225	Aroclor 5442	12642-23-8	10	U	10	33		10
10225	Aroclor 5460	11126-42-4	280		10	33		10
10225	PCB-1016	12674-11-2	3.3	U	3.3	17		10
10225	PCB-1221	11104-28-2	3.3	U	3.3	17		10
10225	PCB-1232	11141-16-5	3.3	U	3.3	17		10
10225	PCB-1242	53469-21-9	3.3	U	3.3	17		10
10225	PCB-1248	12672-29-6	3.3	U	3.3	17		10

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

Sample Description: **SL-034-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA7-SS-0.0-0.5

LLI Sample # SW 6404505
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 12:15

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4202 SDG#: DE242-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	300		3.3	17		10
10225	PCB-1260	11096-82-5	72		3.9	17		10
10225	PCB-1262	37324-23-5	3.3	U	3.3	17		10
10225	PCB-1268	11100-14-4	3.3	U	3.3	17		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,300		5.99	19.8		1
07914	Boron	7440-42-8	1.04	J	0.356	4.95		1
01650	Calcium	7440-70-2	3,920		2.48	19.8		1
01654	Iron	7439-89-6	18,900		2.58	19.8		1
01656	Lithium	7439-93-2	22.4		0.61	2.0		1
01657	Magnesium	7439-95-4	4,200		0.436	9.90		1
06958	Manganese	7439-96-5	257		0.0356	0.495		1
10145	Phosphorus	7723-14-0	445		0.347	9.90		1
01662	Potassium	7440-09-7	3,920		11.2	49.5		1
01667	Sodium	7440-23-5	157		5.89	99.0		1
07968	Strontium	7440-24-6	12.3		0.0248	0.495		1
06969	Tin	7440-31-5	2.97	J	0.317	9.90		1
06970	Titanium	7440-32-6	1,220		0.0703	0.990		1
10146	Zirconium	7440-67-7	2.93	J	0.455	4.95		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.340		0.0718	0.194		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.36		0.0777	0.388		2
06126	Barium	7440-39-3	98.1		0.103	0.388		2
06127	Beryllium	7440-41-7	0.460		0.0155	0.0971		2
06128	Cadmium	7440-43-9	0.437		0.0427	0.0971		2
06131	Chromium	7440-47-3	47.9		0.117	0.388		2
06132	Cobalt	7440-48-4	6.35		0.0194	0.0971		2
06133	Copper	7440-50-8	13.8		0.0777	0.388		2
06135	Lead	7439-92-1	26.4		0.0099	0.194		2
06138	Molybdenum	7439-98-7	1.24		0.0485	0.0971		2
06139	Nickel	7440-02-0	33.0		0.0971	0.388		2
06141	Selenium	7782-49-2	0.105	J	0.0563	0.388		2
06142	Silver	7440-22-4	0.0584	J	0.0138	0.0971		2
06145	Thallium	7440-28-0	0.245		0.0291	0.0971		2
06148	Vanadium	7440-62-2	38.2		0.0214	0.0971		2
06149	Zinc	7440-66-6	135		0.544	2.91		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0894	J	0.0066	0.0938		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.91	J	0.79	0.98		1

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

Sample Description: **SL-034-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA7-SS-0.0-0.5

LLI Sample # SW 6404505
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 12:15

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4202 SDG#: DE242-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.0	U	9.0	30.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.61	J	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.90		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.50	U	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11258SLA026	09/19/2011 15:54	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11258SLC026	09/22/2011 15:36	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11258SLC026	09/16/2011 07:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11258SLA026	09/15/2011 18:15	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112580024A	09/20/2011 01:12	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112620013A	09/21/2011 21:27	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112600018A	09/23/2011 08:09	Jessica L Miller	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112620013A	09/20/2011 03:55	David V Hershey Jr	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112600018A	09/19/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112580024A	09/15/2011 22:00	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112575708003	09/23/2011 16:54	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112575708003	09/22/2011 14:07	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112575708003	09/23/2011 16:54	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112575708003	09/23/2011 16:54	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112575708003	09/22/2011 14:07	Eric L Eby	1

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

Sample Description: **SL-034-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA7-SS-0.0-0.5

LLI Sample # SW 6404505
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 12:15

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4202 SDG#: DE242-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	112575708003	09/23/2011 16:54	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112575708003	09/22/2011 14:07	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112575708003	09/22/2011 14:07	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112575708003	09/23/2011 16:54	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112575708003	09/25/2011 07:04	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112575708003	09/22/2011 14:07	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112575708003	09/22/2011 14:07	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112575708003	09/22/2011 14:07	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112575708003	09/22/2011 14:07	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112571026001A	09/16/2011 09:36	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112571026001A	09/16/2011 09:36	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112571026001D	09/16/2011 09:36	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112571026001A	09/16/2011 09:36	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112571026001A	09/16/2011 09:36	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112571026001A	09/16/2011 09:36	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112571026001A	09/16/2011 09:36	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112571026001A	09/16/2011 09:36	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112571026001A	09/16/2011 09:36	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112571026001C	09/16/2011 09:36	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112571026001A	09/16/2011 09:36	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112571026001B	09/16/2011 09:36	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112571026001A	09/16/2011 09:36	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112571026001A	09/16/2011 09:36	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112571026001A	09/16/2011 09:36	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112571026001A	09/16/2011 09:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112575711002	09/16/2011 09:11	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112575708003	09/15/2011 23:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112571026001	09/15/2011 23:08	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112575711002	09/16/2011 02:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11259621202A	09/17/2011 12:53	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11258621201A	09/16/2011 05:27	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11265243201A	09/27/2011 23:20	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11259621202A	09/16/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11258621201A	09/15/2011 06:15	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11265039402A	09/22/2011 10:50	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11265243201A	09/22/2011 10:55	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11259162402B	09/16/2011 23:10	Scott W Freisher	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-035-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA7-SS-0.0-0.5

LLI Sample # SW 6404506
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:05

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4203 SDG#: DE242-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	20	J	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	38	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	180		17	170		1
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1

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

Sample Description: SL-035-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA7-SS-0.0-0.5

LLI Sample # SW 6404506
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:05

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4203 SDG#: DE242-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzoic acid 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.3	U	3.3	8.3		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.3		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.3		5
10138	Benzo(a)anthracene	56-55-3	3.3	U	3.3	8.3		5
10138	Benzo(a)pyrene	50-32-8	5.9	J	3.3	8.3		5
10138	Benzo(b)fluoranthene	205-99-2	15		3.3	8.3		5
10138	Benzo(g,h,i)perylene	191-24-2	9.1		3.3	8.3		5
10138	Benzo(k)fluoranthene	207-08-9	11		3.3	8.3		5
10138	Chrysene	218-01-9	17		1.7	8.3		5
10138	Dibenz(a,h)anthracene	53-70-3	3.3	U	3.3	8.3		5
10138	Fluoranthene	206-44-0	4.5	J	3.3	8.3		5
10138	Fluorene	86-73-7	3.3	U	3.3	8.3		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.4	J	3.3	8.3		5
10138	1-Methylnaphthalene	90-12-0	3.3	U	3.3	8.3		5
10138	2-Methylnaphthalene	91-57-6	3.3	U	3.3	8.3		5
10138	N-Nitrosodimethylamine	62-75-9	3.3	U	3.3	8.3		5
10138	Phenanthrene	85-01-8	3.3	U	3.3	8.3		5
10138	Pyrene	129-00-0	5.3	J	3.3	8.3		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	2.7		0.62	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1

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

Sample Description: SL-035-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA7-SS-0.0-0.5

LLI Sample # SW 6404506
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:05

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4203 SDG#: DE242-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	MCPA	94-74-6	850	U	850	850		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.40	U	0.40	0.40		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.090	U	0.090	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	7.3		0.80	3.4		1
01363	p,p-DDD	72-54-8	0.066	U	0.066	0.34		1
01363	p,p-DDE	72-55-9	1.8		0.066	0.34		1
01363	p,p-DDT	50-29-3	4.5		0.66	3.4		10
01363	Delta BHC	319-86-8	0.090	U	0.090	0.17		1
01363	Dieldrin	60-57-1	1.4	U	1.4	1.4		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.57	U	0.57	0.57		1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34		1
01363	Endrin	72-20-8	0.48	U	0.48	0.48		1
01363	Endrin Aldehyde	7421-93-4	0.66		0.066	0.34		1
01363	Endrin Ketone	53494-70-5	0.066	U	0.066	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.47	U	0.47	0.47		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.42	U	0.42	0.42		1
01363	Toxaphene	8001-35-2	32	U	32	32		1
	The samples were injected following maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1

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

Sample Description: **SL-035-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA7-SS-0.0-0.5

LLI Sample # SW 6404506
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:05

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4203 SDG#: DE242-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,800		5.85	19.3		1
07914	Boron	7440-42-8	1.48	J	0.348	4.83		1
01650	Calcium	7440-70-2	3,740		2.42	19.3		1
01654	Iron	7439-89-6	18,600		2.52	19.3		1
01656	Lithium	7439-93-2	22.7		0.60	1.9		1
01657	Magnesium	7439-95-4	5,110		0.425	9.66		1
06958	Manganese	7439-96-5	382		0.0348	0.483		1
10145	Phosphorus	7723-14-0	364		0.338	9.66		1
01662	Potassium	7440-09-7	2,870		10.9	48.3		1
01667	Sodium	7440-23-5	108		5.75	96.6		1
07968	Strontium	7440-24-6	11.5		0.0242	0.483		1
06969	Tin	7440-31-5	3.80	J	0.309	9.66		1
06970	Titanium	7440-32-6	1,150		0.0686	0.966		1
10146	Zirconium	7440-67-7	11.5		0.445	4.83		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.298		0.0722	0.195		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.50		0.0781	0.390		2
06126	Barium	7440-39-3	118		0.103	0.390		2
06127	Beryllium	7440-41-7	0.603		0.0156	0.0976		2
06128	Cadmium	7440-43-9	1.47		0.0429	0.0976		2
06131	Chromium	7440-47-3	62.5		0.117	0.390		2
06132	Cobalt	7440-48-4	8.66		0.0195	0.0976		2
06133	Copper	7440-50-8	15.5		0.0781	0.390		2
06135	Lead	7439-92-1	20.3		0.010	0.195		2
06138	Molybdenum	7439-98-7	1.44		0.0488	0.0976		2
06139	Nickel	7440-02-0	32.2		0.0976	0.390		2
06141	Selenium	7782-49-2	0.168	J	0.0566	0.390		2
06142	Silver	7440-22-4	0.0929	J	0.0139	0.0976		2
06145	Thallium	7440-28-0	0.313		0.0293	0.0976		2
06148	Vanadium	7440-62-2	47.2		0.0215	0.0976		2
06149	Zinc	7440-66-6	131		0.546	2.93		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0522	J	0.0067	0.0955		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.0	U	9.0	30.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.46	J	0.20	1.0		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-035-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA7-SS-0.0-0.5

LLI Sample # SW 6404506
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:05

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4203 SDG#: DE242-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.72	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	0.51	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11258SLA026	09/19/2011 16:19	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11258SLC026	09/22/2011 22:28	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11258SLC026	09/16/2011 07:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11258SLA026	09/15/2011 18:15	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112580024A	09/20/2011 01:39	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112620013A	09/21/2011 21:41	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112620013A	09/21/2011 21:55	Melissa McDermott	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112600018A	09/21/2011 19:38	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112620013A	09/20/2011 03:55	David V Hershey Jr	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112600018A	09/19/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112580024A	09/15/2011 22:00	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112575708003	09/23/2011 16:58	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112575708003	09/22/2011 14:10	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112575708003	09/23/2011 16:58	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112575708003	09/23/2011 16:58	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112575708003	09/22/2011 14:10	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112575708003	09/23/2011 16:58	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112575708003	09/22/2011 14:10	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112575708003	09/22/2011 14:10	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112575708003	09/23/2011 16:58	Eric L Eby	1

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Analysis Report

Sample Description: **SL-035-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA7-SS-0.0-0.5

LLI Sample # SW 6404506
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:05

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4203 SDG#: DE242-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	112575708003	09/25/2011 07:08	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112575708003	09/22/2011 14:10	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112575708003	09/22/2011 14:10	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112575708003	09/22/2011 14:10	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112575708003	09/22/2011 14:10	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112571026001A	09/16/2011 09:39	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112571026001A	09/16/2011 09:39	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112571026001D	09/16/2011 09:39	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112571026001A	09/16/2011 09:39	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112571026001A	09/16/2011 09:39	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112571026001A	09/16/2011 09:39	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112571026001A	09/16/2011 09:39	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112571026001A	09/16/2011 09:39	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112571026001A	09/16/2011 09:39	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112571026001C	09/16/2011 09:39	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112571026001A	09/16/2011 09:39	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112571026001B	09/16/2011 09:39	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112571026001A	09/16/2011 09:39	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112571026001A	09/16/2011 09:39	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112571026001A	09/16/2011 09:39	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112571026001A	09/16/2011 09:39	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112575711002	09/16/2011 09:14	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112575708003	09/15/2011 23:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112571026001	09/15/2011 23:08	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112575711002	09/16/2011 02:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11259621202A	09/17/2011 13:35	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11258621201A	09/16/2011 05:50	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11265243201A	09/27/2011 23:42	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11259621202A	09/16/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11258621201A	09/15/2011 06:15	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11265039402A	09/22/2011 10:50	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11265243201A	09/22/2011 10:55	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11259162402B	09/16/2011 23:10	Scott W Freisher	1

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

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Analysis Report

Sample Description: SL-037-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA7-SS-0.0-0.5

LLI Sample # SW 6404507
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 10:15

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4204 SDG#: DE242-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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

Sample Description: **SL-037-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA7-SS-0.0-0.5

LLI Sample # SW 6404507
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 10:15

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4204 SDG#: DE242-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzoic acid 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.4		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.4		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.4		5
10138	Benzo(a)anthracene	56-55-3	3.4	U	3.4	8.4		5
10138	Benzo(a)pyrene	50-32-8	3.4	U	3.4	8.4		5
10138	Benzo(b)fluoranthene	205-99-2	7.4	J	3.4	8.4		5
10138	Benzo(g,h,i)perylene	191-24-2	3.4	U	3.4	8.4		5
10138	Benzo(k)fluoranthene	207-08-9	3.4	U	3.4	8.4		5
10138	Butylbenzylphthalate	85-68-7	43	J	30	91		5
10138	Chrysene	218-01-9	8.6		1.7	8.4		5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.4		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	76	J	30	91		5
10138	Fluoranthene	206-44-0	15		3.4	8.4		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.4		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.4	U	3.4	8.4		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.4		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.4		5
10138	Naphthalene	91-20-3	3.9	J	3.4	8.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4		5
10138	Phenanthrene	85-01-8	8.9		3.4	8.4		5
10138	Pyrene	129-00-0	11		3.4	8.4		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	7.1	U	7.1	7.1		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1

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Sample Description: SL-037-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA7-SS-0.0-0.5

LLI Sample # SW 6404507
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 10:15

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4204 SDG#: DE242-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	1,800	U	1,800	1,800		1
10401	MCPP (Mecoprop)	93-65-2	110	J	76	250		1
10401	2,4,5-T	93-76-5	0.79		0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	2.8	U	2.8	3.4		1
01363	p,p-DDD	72-54-8	0.066	U	0.066	0.34		1
01363	p,p-DDE	72-55-9	6.0		0.33	1.7		5
01363	p,p-DDT	50-29-3	10		1.3	6.8		20
01363	Delta BHC	319-86-8	0.37	U	0.37	0.37		1
01363	Dieldrin	60-57-1	0.80	U	0.80	0.80		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.45	U	0.45	0.45		1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34		1
01363	Endrin	72-20-8	0.20	U	0.20	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.44	U	0.44	0.44		1
01363	Endrin Ketone	53494-70-5	0.46	U	0.46	0.46		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.42	U	0.42	0.42		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.83	U	0.83	0.83		1
01363	Toxaphene	8001-35-2	42	U	42	42		1
	The samples were injected following maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	2.4	J	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	21		0.33	1.7		1
10225	PCB-1260	11096-82-5	3.2		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1

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Sample Description: **SL-037-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA7-SS-0.0-0.5

LLI Sample # SW 6404507
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 10:15

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4204 SDG#: DE242-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	110	J	100	500		1
10501	Methanol	67-56-1	100	U	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.0	U	4.0	12		10
10199	EFH (C15-C20)	n.a.	4.2	J	4.0	12		10
10199	EFH (C21-C30)	n.a.	69		4.0	12		10
10199	EFH (C30 - C40)	n.a.	230		4.0	12		10
10199	EFH (C8-C11)	n.a.	4.0	U	4.0	12		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,200		6.03	19.9		1
07914	Boron	7440-42-8	4.63	J	0.359	4.99		1
01650	Calcium	7440-70-2	2,570		2.49	19.9		1
01654	Iron	7439-89-6	17,300		2.60	19.9		1
01656	Lithium	7439-93-2	21.1		0.62	2.0		1
01657	Magnesium	7439-95-4	3,800		0.439	9.97		1
06958	Manganese	7439-96-5	261		0.0359	0.499		1
10145	Phosphorus	7723-14-0	313		0.349	9.97		1
01662	Potassium	7440-09-7	2,980		11.3	49.9		1
01667	Sodium	7440-23-5	81.9	J	5.93	99.7		1
07968	Strontium	7440-24-6	19.5		0.0249	0.499		1
06969	Tin	7440-31-5	2.91	J	0.319	9.97		1
06970	Titanium	7440-32-6	1,160		0.0708	0.997		1
10146	Zirconium	7440-67-7	2.88	J	0.459	4.99		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.253		0.0745	0.201		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	18.4		0.0806	0.403		2
06126	Barium	7440-39-3	125		0.107	0.403		2

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Lancaster Laboratories

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

Analysis Report

Sample Description: SL-037-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA7-SS-0.0-0.5

LLI Sample # SW 6404507
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 10:15

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4204 SDG#: DE242-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.784		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.284		0.0443	0.101		2
06131	Chromium	7440-47-3	21.4		0.121	0.403		2
06132	Cobalt	7440-48-4	7.79		0.0201	0.101		2
06133	Copper	7440-50-8	10.6		0.0806	0.403		2
06135	Lead	7439-92-1	24.6		0.0103	0.201		2
06138	Molybdenum	7439-98-7	0.796		0.0504	0.101		2
06139	Nickel	7440-02-0	18.4		0.101	0.403		2
06141	Selenium	7782-49-2	0.144	J	0.0584	0.403		2
06142	Silver	7440-22-4	0.0619	J	0.0143	0.101		2
06145	Thallium	7440-28-0	0.323		0.0302	0.101		2
06148	Vanadium	7440-62-2	52.0		0.0222	0.101		2
06149	Zinc	7440-66-6	87.8		0.564	3.02		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0234	J	0.0069	0.0983		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.60		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.72		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

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

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Sample Description: **SL-037-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA7-SS-0.0-0.5

LLI Sample # SW 6404507
LLI Group # 1266159
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 10:15

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

E4204 SDG#: DE242-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11258SLA026	09/19/2011 16:45	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11258SLC026	09/22/2011 23:02	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11258SLC026	09/16/2011 07:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11258SLA026	09/15/2011 18:15	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112580024A	09/20/2011 02:07	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112620013A	09/21/2011 22:09	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112620013A	09/21/2011 22:23	Melissa McDermott	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	112620013A	09/26/2011 22:04	Melissa McDermott	20
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112600018A	09/21/2011 19:57	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112620013A	09/20/2011 03:55	David V Hershey Jr	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112600018A	09/19/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112580024A	09/15/2011 22:00	Elaine F Stoltzfus	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112570037A	09/15/2011 19:41	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620009A	09/20/2011 11:49	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112580032A	09/20/2011 10:55	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112640001A	09/22/2011 20:51	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112640001A	09/20/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112580032A	09/16/2011 06:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112570037A	09/15/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620009A	09/19/2011 09:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112575708003	09/23/2011 17:03	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112575708003	09/22/2011 14:14	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112575708003	09/23/2011 17:03	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112575708003	09/23/2011 17:03	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112575708003	09/22/2011 14:14	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112575708003	09/23/2011 17:03	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112575708003	09/22/2011 14:14	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112575708003	09/22/2011 14:14	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112575708003	09/23/2011 17:03	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112575708003	09/25/2011 07:12	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112575708003	09/22/2011 14:14	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112575708003	09/22/2011 14:14	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112575708003	09/22/2011 14:14	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112575708003	09/22/2011 14:14	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112571026001A	09/16/2011 09:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112571026001A	09/16/2011 09:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112571026001D	09/16/2011 09:42	Choon Y Tian	2

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Sample Description: **SL-037-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA7-SS-0.0-0.5

LLI Sample # SW 6404507
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 10:15

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14420 Albemarle Point Place
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E4204 SDG#: DE242-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	112571026001A	09/16/2011 09:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112571026001A	09/16/2011 09:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112571026001A	09/16/2011 09:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112571026001A	09/16/2011 09:42	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112571026001A	09/16/2011 09:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112571026001A	09/16/2011 09:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112571026001C	09/16/2011 09:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112571026001A	09/16/2011 09:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112571026001B	09/16/2011 09:42	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112571026001A	09/16/2011 09:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112571026001A	09/16/2011 09:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112571026001A	09/16/2011 09:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112571026001A	09/16/2011 09:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112575711002	09/16/2011 09:15	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112575708003	09/15/2011 23:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112571026001	09/15/2011 23:08	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112575711002	09/16/2011 02:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11259621202A	09/17/2011 13:49	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11258621201A	09/16/2011 06:13	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11265243201A	09/27/2011 23:56	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11259621202A	09/16/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11258621201A	09/15/2011 06:15	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11265039402A	09/22/2011 10:50	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11265243201A	09/22/2011 10:55	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11259162402B	09/16/2011 23:10	Scott W Freisher	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-040-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA7-SS-0.0-0.5

LLI Sample # SW 6404508
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 08:46

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4205 SDG#: DE242-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1

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Sample Description: **SL-040-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA7-SS-0.0-0.5

LLI Sample # SW 6404508
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 08:46

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4205 SDG#: DE242-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzoic acid 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.67	U	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	J	0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	0.50	J	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.1	U	6.1	18		1
10138	Fluoranthene	206-44-0	0.70	J	0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	0.67	U	0.67	1.7		1
10138	Pyrene	129-00-0	0.67	U	0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	30	U	30	91		25
10401	Dalapon	75-99-0	110	U	110	230		25
10401	2,4-DB	94-82-6	16	U	16	43		25
10401	Dicamba	1918-00-9	10	U	10	30		25
10401	Dinoseb	88-85-7	20	U	20	60		25
10401	2,4-DP (Dichlorprop)	120-36-5	20	U	20	43		25
10401	MCPA	94-74-6	1,900	U	1,900	6,300		25

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Sample Description: SL-040-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA7-SS-0.0-0.5

LLI Sample # SW 6404508
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 08:46

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4205 SDG#: DE242-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	MCPP (Mecoprop)	93-65-2	1,900	U	1,900	6,300		25
10401	2,4,5-T	93-76-5	2.1	U	2.1	4.3		25
10401	2,4,5-TP	93-72-1	1.9	U	1.9	4.3		25
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.15	J	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.15	J	0.067	0.34		1
01363	p,p-DDT	50-29-3	0.24	J	0.067	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.15	J	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.11	J	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.22	J	0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.24	J	0.067	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	The samples were injected following maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,900		5.99	19.8		1
07914	Boron	7440-42-8	4.08	J	0.356	4.95		1

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Sample Description: **SL-040-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA7-SS-0.0-0.5

LLI Sample # SW 6404508
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 08:46

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4205 SDG#: DE242-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	3,970		2.47	19.8		1
01654	Iron	7439-89-6	16,700		2.58	19.8		1
01656	Lithium	7439-93-2	22.9		0.61	2.0		1
01657	Magnesium	7439-95-4	4,080		0.435	9.90		1
06958	Manganese	7439-96-5	320		0.0356	0.495		1
10145	Phosphorus	7723-14-0	406		0.346	9.90		1
01662	Potassium	7440-09-7	3,670		11.2	49.5		1
01667	Sodium	7440-23-5	67.8	J	5.89	99.0		1
07968	Strontium	7440-24-6	28.1		0.0247	0.495		1
06969	Tin	7440-31-5	2.98	J	0.317	9.90		1
06970	Titanium	7440-32-6	1,150		0.0703	0.990		1
10146	Zirconium	7440-67-7	2.96	J	0.455	4.95		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.219		0.0747	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.6		0.0808	0.404		2
06126	Barium	7440-39-3	134		0.267	1.01		5
06127	Beryllium	7440-41-7	0.757		0.0162	0.101		2
06128	Cadmium	7440-43-9	0.411		0.0444	0.101		2
06131	Chromium	7440-47-3	20.3		0.121	0.404		2
06132	Cobalt	7440-48-4	7.42		0.0202	0.101		2
06133	Copper	7440-50-8	13.1		0.0808	0.404		2
06135	Lead	7439-92-1	13.5		0.0103	0.202		2
06138	Molybdenum	7439-98-7	0.762		0.0505	0.101		2
06139	Nickel	7440-02-0	18.1		0.101	0.404		2
06141	Selenium	7782-49-2	0.215	J	0.0585	0.404		2
06142	Silver	7440-22-4	0.0647	J	0.0143	0.101		2
06145	Thallium	7440-28-0	0.363		0.0303	0.101		2
06148	Vanadium	7440-62-2	41.0		0.0222	0.101		2
06149	Zinc	7440-66-6	87.3		0.565	3.03		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0145	J	0.0070	0.100		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.0		0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1

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Sample Description: **SL-040-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA7-SS-0.0-0.5

LLI Sample # SW 6404508
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 08:46

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4205 SDG#: DE242-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	6.91	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	0.93	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11258SLA026	09/19/2011 17:10	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11258SLC026	09/22/2011 23:36	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11258SLC026	09/16/2011 07:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11258SLA026	09/15/2011 18:15	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112580024A	09/25/2011 18:01	John W Perkins	25
01363	12a Pesticides by 8081A	SW-846 8081A	1	112620013A	09/21/2011 22:38	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112600018A	09/21/2011 20:16	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112620013A	09/20/2011 03:55	David V Hershey Jr	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112600018A	09/19/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112580024A	09/15/2011 22:00	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112575708003	09/23/2011 17:07	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112575708003	09/22/2011 14:18	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112575708003	09/23/2011 17:07	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112575708003	09/23/2011 17:07	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112575708003	09/22/2011 14:18	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112575708003	09/23/2011 17:07	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112575708003	09/22/2011 14:18	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112575708003	09/22/2011 14:18	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112575708003	09/23/2011 17:07	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112575708003	09/25/2011 07:16	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112575708003	09/22/2011 14:18	Eric L Eby	1

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

Sample Description: SL-040-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA7-SS-0.0-0.5

LLI Sample # SW 6404508
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 08:46

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4205 SDG#: DE242-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112575708003	09/22/2011 14:18	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112575708003	09/22/2011 14:18	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112575708003	09/22/2011 14:18	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112571026001A	09/16/2011 09:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112571026001A	09/16/2011 09:45	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112571026001D	09/16/2011 10:41	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	112571026001A	09/16/2011 09:45	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112571026001A	09/16/2011 09:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112571026001A	09/16/2011 09:45	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112571026001A	09/16/2011 09:45	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112571026001A	09/16/2011 09:45	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112571026001A	09/16/2011 09:45	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112571026001C	09/16/2011 09:45	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112571026001A	09/16/2011 09:45	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112571026001B	09/16/2011 09:45	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112571026001A	09/16/2011 09:45	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112571026001A	09/16/2011 09:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112571026001A	09/16/2011 09:45	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112571026001A	09/16/2011 09:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112575711002	09/16/2011 09:16	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112575708003	09/15/2011 23:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112571026001	09/15/2011 23:08	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112575711002	09/16/2011 02:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11259621202A	09/17/2011 14:04	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11258621201A	09/16/2011 06:37	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11265243201A	09/28/2011 00:11	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11259621202A	09/16/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11258621201A	09/15/2011 06:15	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11265039402A	09/22/2011 10:50	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11265243201A	09/22/2011 10:55	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11259162402B	09/16/2011 23:10	Scott W Freisher	1

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

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

Analysis Report

Sample Description: SL-041-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA7-SS-0.0-0.5

LLI Sample # SW 6404509
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 09:09

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4206 SDG#: DE242-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1

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

Sample Description: SL-041-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA7-SS-0.0-0.5

LLI Sample # SW 6404509
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 09:09

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4206 SDG#: DE242-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzoic acid 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.33	U	0.33	1.7		1
10138	Anthracene	120-12-7	0.33	U	0.33	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.87	J	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.67	U	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.6	J	0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	60		6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	2.3		0.33	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Fluoranthene	206-44-0	2.9		0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.95	J	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	1.7		0.67	1.7		1
10138	Pyrene	129-00-0	2.5		0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	2.3	U	2.3	2.3		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1

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Sample Description: SL-041-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA7-SS-0.0-0.5

LLI Sample # SW 6404509
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 09:09

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4206 SDG#: DE242-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	MCPP (Mecoprop)	93-65-2	330	U	330	330		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.057	J	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.078	U	0.078	0.34		1
01363	p,p-DDE	72-55-9	0.78		0.067	0.34		1
01363	p,p-DDT	50-29-3	0.50	U	0.50	0.50		1
01363	Delta BHC	319-86-8	0.095	J	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.16	U	0.16	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.33	U	0.33	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.060	U	0.060	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	The samples were injected following maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.6	J	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	3.3		0.33	1.7		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	510		1

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

Sample Description: **SL-041-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA7-SS-0.0-0.5

LLI Sample # SW 6404509
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 09:09

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4206 SDG#: DE242-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	230	J	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.81	U	0.81	2.4		2
10199	EFH (C15-C20)	n.a.	1.0	J	0.81	2.4		2
10199	EFH (C21-C30)	n.a.	10		0.81	2.4		2
10199	EFH (C30 - C40)	n.a.	27		0.81	2.4		2
10199	EFH (C8-C11)	n.a.	0.81	U	0.81	2.4		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,500		6.12	20.2		1
07914	Boron	7440-42-8	4.36	J	0.364	5.06		1
01650	Calcium	7440-70-2	3,580		2.53	20.2		1
01654	Iron	7439-89-6	16,800		2.64	20.2		1
01656	Lithium	7439-93-2	21.8		0.63	2.0		1
01657	Magnesium	7439-95-4	3,880		0.445	10.1		1
06958	Manganese	7439-96-5	301		0.0364	0.506		1
10145	Phosphorus	7723-14-0	454		0.354	10.1		1
01662	Potassium	7440-09-7	3,640		11.4	50.6		1
01667	Sodium	7440-23-5	70.6	J	6.02	101		1
07968	Strontium	7440-24-6	24.3		0.0253	0.506		1
06969	Tin	7440-31-5	3.00	J	0.324	10.1		1
06970	Titanium	7440-32-6	1,100		0.0718	1.01		1
10146	Zirconium	7440-67-7	3.32	J	0.465	5.06		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.138	J	0.0741	0.200		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	11.3		0.0801	0.400		2
06126	Barium	7440-39-3	125		0.106	0.400		2
06127	Beryllium	7440-41-7	0.588		0.0160	0.100		2

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

Sample Description: SL-041-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA7-SS-0.0-0.5

LLI Sample # SW 6404509
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 09:09

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4206 SDG#: DE242-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.237	0.0440	0.100		2
06131	Chromium	7440-47-3	17.3	0.120	0.400		2
06132	Cobalt	7440-48-4	6.08	0.0200	0.100		2
06133	Copper	7440-50-8	10.1	0.0801	0.400		2
06135	Lead	7439-92-1	9.27	0.0102	0.200		2
06138	Molybdenum	7439-98-7	0.603	0.0501	0.100		2
06139	Nickel	7440-02-0	13.8	0.100	0.400		2
06141	Selenium	7782-49-2	0.101 J	0.0581	0.400		2
06142	Silver	7440-22-4	0.0404 J	0.0142	0.100		2
06145	Thallium	7440-28-0	0.288	0.0300	0.100		2
06148	Vanadium	7440-62-2	32.8	0.0220	0.100		2
06149	Zinc	7440-66-6	72.0	0.561	3.00		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0098 J	0.0068	0.0965		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2	0.82	1.0		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1 U	9.1	30.3		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20 U	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.12	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.1	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

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

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

Sample Description: **SL-041-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA7-SS-0.0-0.5

LLI Sample # SW 6404509
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 09:09

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4206 SDG#: DE242-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11258SLA026	09/19/2011 17:35	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11258SLC026	09/23/2011 00:10	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11258SLC026	09/16/2011 07:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11258SLA026	09/15/2011 18:15	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112580024A	09/20/2011 03:01	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112620013A	09/21/2011 22:52	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112600018A	09/21/2011 20:35	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112620013A	09/20/2011 03:55	David V Hershey Jr	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112600018A	09/19/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112580024A	09/15/2011 22:00	Elaine F Stoltzfus	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112570037A	09/15/2011 19:55	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620009A	09/20/2011 12:02	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112580032A	09/20/2011 07:34	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112640001A	09/22/2011 18:29	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	112640001A	09/20/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112580032A	09/16/2011 06:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112570037A	09/15/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620009A	09/19/2011 09:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112575708003	09/23/2011 17:11	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112575708003	09/22/2011 14:22	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112575708003	09/23/2011 17:11	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112575708003	09/23/2011 17:11	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112575708003	09/22/2011 14:22	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112575708003	09/23/2011 17:11	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112575708003	09/22/2011 14:22	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112575708003	09/22/2011 14:22	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112575708003	09/23/2011 17:11	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112575708003	09/25/2011 07:20	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112575708003	09/22/2011 14:22	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112575708003	09/22/2011 14:22	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112575708003	09/22/2011 14:22	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112575708003	09/22/2011 14:22	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112571026001A	09/16/2011 09:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112571026001A	09/16/2011 09:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112571026001D	09/16/2011 09:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112571026001A	09/16/2011 09:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112571026001A	09/16/2011 09:48	Choon Y Tian	2

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

Sample Description: **SL-041-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA7-SS-0.0-0.5

LLI Sample # SW 6404509
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 09:09

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4206 SDG#: DE242-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112571026001A	09/16/2011 09:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112571026001A	09/16/2011 09:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112571026001A	09/16/2011 09:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112571026001A	09/16/2011 09:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112571026001C	09/16/2011 09:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112571026001A	09/16/2011 09:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112571026001B	09/16/2011 09:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112571026001A	09/16/2011 09:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112571026001A	09/16/2011 09:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112571026001A	09/16/2011 09:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112571026001A	09/16/2011 09:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112575711002	09/16/2011 09:18	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112575708003	09/15/2011 23:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112571026001	09/15/2011 23:08	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112575711002	09/16/2011 02:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11259621202A	09/17/2011 14:18	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11258621201B	09/16/2011 07:00	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11265243201A	09/28/2011 00:25	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11259621202A	09/16/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11258621201B	09/15/2011 06:15	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11265039402A	09/22/2011 10:50	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11265243201A	09/22/2011 10:55	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11259162402B	09/16/2011 23:10	Scott W Freisher	1

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-070-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA7-SS-0.0-0.5

LLI Sample # SW 6404510
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 10:35

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4207 SDG#: DE242-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(b)fluoranthene	205-99-2	18	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	U	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1

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

Sample Description: SL-070-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA7-SS-0.0-0.5

LLI Sample # SW 6404510
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 10:35

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4207 SDG#: DE242-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzoic acid 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.4		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.4		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.4		5
10138	Benzo(a)anthracene	56-55-3	3.4	U	3.4	8.4		5
10138	Benzo(a)pyrene	50-32-8	3.4	U	3.4	8.4		5
10138	Benzo(g,h,i)perylene	191-24-2	3.4	U	3.4	8.4		5
10138	Benzo(k)fluoranthene	207-08-9	3.4	U	3.4	8.4		5
10138	Chrysene	218-01-9	3.5	J	1.7	8.4		5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.4		5
10138	Fluoranthene	206-44-0	8.3	J	3.4	8.4		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.4		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.4	U	3.4	8.4		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.4		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.4		5
10138	Naphthalene	91-20-3	3.7	J	3.4	8.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4		5
10138	Phenanthrene	85-01-8	3.4	U	3.4	8.4		5
10138	Pyrene	129-00-0	6.3	J	3.4	8.4		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	6.6	U	6.6	6.6		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1

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

Sample Description: SL-070-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA7-SS-0.0-0.5

LLI Sample # SW 6404510
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 10:35

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4207 SDG#: DE242-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	MCPA	94-74-6	76	U	76	250		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.17	U	0.17	0.17		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	1.9	J	0.80	3.4		1
01363	p,p-DDD	72-54-8	0.32	U	0.32	0.34		1
01363	p,p-DDE	72-55-9	1.8	U	1.8	1.8		1
01363	p,p-DDT	50-29-3	4.0		0.33	1.7		5
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.91	U	0.91	0.91		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.31	U	0.31	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34		1
01363	Endrin	72-20-8	0.21	U	0.21	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.61	U	0.61	0.61		1
01363	Endrin Ketone	53494-70-5	0.066	U	0.066	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.28	U	0.28	0.28		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.099	U	0.099	0.34		1
01363	Toxaphene	8001-35-2	18	U	18	18		1
	The samples were injected following maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	28		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.70	J	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	13		0.33	1.7		1
10225	PCB-1260	11096-82-5	11		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	

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

Sample Description: **SL-070-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-070-SA7-SS-0.0-0.5

LLI Sample # SW 6404510
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 10:35

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4207 SDG#: DE242-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	J	100	500		1
10501	Methanol	67-56-1	230	J	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.0	U	2.0	6.0		5
10199	EFH (C15-C20)	n.a.	2.0	U	2.0	6.0		5
10199	EFH (C21-C30)	n.a.	33		2.0	6.0		5
10199	EFH (C30 - C40)	n.a.	100		2.0	6.0		5
10199	EFH (C8-C11)	n.a.	2.0	U	2.0	6.0		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,500		5.85	19.3		1
07914	Boron	7440-42-8	3.86	J	0.348	4.83		1
01650	Calcium	7440-70-2	2,680		2.42	19.3		1
01654	Iron	7439-89-6	18,600		2.52	19.3		1
01656	Lithium	7439-93-2	21.7		0.60	1.9		1
01657	Magnesium	7439-95-4	3,890		0.425	9.67		1
06958	Manganese	7439-96-5	259		0.0348	0.483		1
10145	Phosphorus	7723-14-0	330		0.338	9.67		1
01662	Potassium	7440-09-7	3,040		10.9	48.3		1
01667	Sodium	7440-23-5	95.8	J	5.75	96.7		1
07968	Strontium	7440-24-6	15.0		0.0242	0.483		1
06969	Tin	7440-31-5	2.78	J	0.309	9.67		1
06970	Titanium	7440-32-6	1,110		0.0686	0.967		1
10146	Zirconium	7440-67-7	2.67	J	0.445	4.83		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.180	J	0.0722	0.195		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	13.3		0.0781	0.390		2
06126	Barium	7440-39-3	94.4		0.103	0.390		2

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

Sample Description: **SL-070-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-070-SA7-SS-0.0-0.5

LLI Sample # SW 6404510
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 10:35

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4207 SDG#: DE242-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.615	0.0156	0.0976		2
06128	Cadmium	7440-43-9	0.196	0.0429	0.0976		2
06131	Chromium	7440-47-3	17.0	0.117	0.390		2
06132	Cobalt	7440-48-4	8.08	0.0195	0.0976		2
06133	Copper	7440-50-8	10.3	0.0781	0.390		2
06135	Lead	7439-92-1	17.6	0.010	0.195		2
06138	Molybdenum	7439-98-7	0.618	0.0488	0.0976		2
06139	Nickel	7440-02-0	13.5	0.0976	0.390		2
06141	Selenium	7782-49-2	0.120 J	0.0566	0.390		2
06142	Silver	7440-22-4	0.0571 J	0.0139	0.0976		2
06145	Thallium	7440-28-0	0.271	0.0293	0.0976		2
06148	Vanadium	7440-62-2	37.8	0.0215	0.0976		2
06149	Zinc	7440-66-6	72.7	0.547	2.93		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0148 J	0.0070	0.0996		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2	0.79	0.99		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.0 U	9.0	30.2		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20 U	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.26	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.53	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

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

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

Sample Description: **SL-070-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-070-SA7-SS-0.0-0.5

LLI Sample # SW 6404510
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 10:35

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4207 SDG#: DE242-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11258SLA026	09/19/2011 17:59	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11258SLC026	09/23/2011 00:44	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11258SLC026	09/16/2011 07:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11258SLA026	09/15/2011 18:15	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112580024A	09/20/2011 04:23	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112620013A	09/21/2011 23:06	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112620013A	09/21/2011 23:20	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112600018A	09/21/2011 20:53	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112620013A	09/20/2011 03:55	David V Hershey Jr	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112600018A	09/19/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112580024A	09/15/2011 22:00	Elaine F Stoltzfus	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112570037A	09/15/2011 20:10	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620009A	09/20/2011 12:53	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112580032A	09/20/2011 08:41	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112640001A	09/22/2011 18:52	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112640001A	09/20/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112580032A	09/16/2011 06:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112570037A	09/15/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620009A	09/19/2011 09:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112575708003	09/23/2011 17:23	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112575708003	09/22/2011 14:25	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112575708003	09/23/2011 17:23	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112575708003	09/23/2011 17:23	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112575708003	09/22/2011 14:25	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112575708003	09/23/2011 17:23	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112575708003	09/22/2011 14:25	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112575708003	09/22/2011 14:25	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112575708003	09/23/2011 17:23	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112575708003	09/25/2011 07:24	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112575708003	09/22/2011 14:25	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112575708003	09/22/2011 14:25	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112575708003	09/22/2011 14:25	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112575708003	09/22/2011 14:25	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112571026001A	09/16/2011 09:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112571026001A	09/16/2011 09:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112571026001D	09/16/2011 09:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112571026001A	09/16/2011 09:51	Choon Y Tian	2

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-070-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-070-SA7-SS-0.0-0.5

LLI Sample # SW 6404510
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 10:35

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4207 SDG#: DE242-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112571026001A	09/16/2011 09:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112571026001A	09/16/2011 09:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112571026001A	09/16/2011 09:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112571026001A	09/16/2011 09:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112571026001A	09/16/2011 09:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112571026001C	09/16/2011 09:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112571026001A	09/16/2011 09:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112571026001B	09/16/2011 09:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112571026001A	09/16/2011 09:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112571026001A	09/16/2011 09:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112571026001A	09/16/2011 09:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112571026001A	09/16/2011 09:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112575711002	09/16/2011 09:19	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112575708003	09/15/2011 23:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112571026001	09/15/2011 23:08	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112575711002	09/16/2011 02:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11259621202A	09/17/2011 14:32	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11258621201B	09/16/2011 08:32	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11265243201A	09/28/2011 00:40	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11259621202A	09/16/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11258621201B	09/15/2011 06:15	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11265039402A	09/22/2011 10:50	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11265243201A	09/22/2011 10:55	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11259162402B	09/16/2011 23:10	Scott W Freisher	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-071-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA7-SS-0.0-0.5

LLI Sample # SW 6404511
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 09:26

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4208 SDG#: DE242-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1

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Sample Description: **SL-071-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA7-SS-0.0-0.5

LLI Sample # SW 6404511
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 09:26

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4208 SDG#: DE242-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzoic acid 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.33	U	0.33	1.7		1
10138	Anthracene	120-12-7	0.33	U	0.33	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.75	J	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.67	J	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.5	J	0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	7.7	J	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	1.7		0.33	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	16	J	6.0	18		1
10138	Fluoranthene	206-44-0	3.4		0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	1.4	J	0.67	1.7		1
10138	Pyrene	129-00-0	2.9		0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	12	U	12	12		1
10401	Dicamba	1918-00-9	0.42	J	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	4.0	U	4.0	4.0		1
10401	MCPA	94-74-6	2,300		76	250		1

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Sample Description: SL-071-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA7-SS-0.0-0.5

LLI Sample # SW 6404511
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 09:26

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4208 SDG#: DE242-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.082	U	0.082	0.17		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	2.2	J	0.80	3.4		1
01363	p,p-DDD	72-54-8	0.083	U	0.083	0.34		1
01363	p,p-DDE	72-55-9	0.24	J	0.066	0.34		1
01363	p,p-DDT	50-29-3	0.30	U	0.30	0.34		1
01363	Delta BHC	319-86-8	0.096	J	0.036	0.17		1
01363	Dieldrin	60-57-1	0.066	U	0.066	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.073	U	0.073	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34		1
01363	Endrin	72-20-8	0.089	U	0.089	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.15	U	0.15	0.34		1
01363	Endrin Ketone	53494-70-5	0.066	U	0.066	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.047	J	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.066	U	0.066	0.34		1
01363	Toxaphene	8001-35-2	3.6	J	2.2	6.6		1
	The samples were injected following maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.95	J	0.33	1.7		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1

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Sample Description: **SL-071-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA7-SS-0.0-0.5

LLI Sample # SW 6404511
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 09:26

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4208 SDG#: DE242-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	250	J	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C21-C30)	n.a.	2.3		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	6.8		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.40	U	0.40	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,100		5.85	19.3		1
07914	Boron	7440-42-8	3.95	J	0.348	4.83		1
01650	Calcium	7440-70-2	2,530		2.42	19.3		1
01654	Iron	7439-89-6	17,400		2.52	19.3		1
01656	Lithium	7439-93-2	22.1		0.60	1.9		1
01657	Magnesium	7439-95-4	3,890		0.425	9.67		1
06958	Manganese	7439-96-5	338		0.0348	0.483		1
10145	Phosphorus	7723-14-0	361		0.338	9.67		1
01662	Potassium	7440-09-7	3,320		10.9	48.3		1
01667	Sodium	7440-23-5	72.8	J	5.75	96.7		1
07968	Strontium	7440-24-6	20.2		0.0242	0.483		1
06969	Tin	7440-31-5	2.78	J	0.309	9.67		1
06970	Titanium	7440-32-6	1,150		0.0686	0.967		1
10146	Zirconium	7440-67-7	3.22	J	0.445	4.83		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.151	J	0.0722	0.195		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	14.6		0.0781	0.390		2
06126	Barium	7440-39-3	134		0.103	0.390		2
06127	Beryllium	7440-41-7	0.714		0.0156	0.0976		2

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Sample Description: SL-071-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA7-SS-0.0-0.5

LLI Sample # SW 6404511
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 09:26

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4208 SDG#: DE242-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.218	0.0430	0.0976		2
06131	Chromium	7440-47-3	19.5	0.117	0.390		2
06132	Cobalt	7440-48-4	6.75	0.0195	0.0976		2
06133	Copper	7440-50-8	10.8	0.0781	0.390		2
06135	Lead	7439-92-1	8.94	0.010	0.195		2
06138	Molybdenum	7439-98-7	0.746	0.0488	0.0976		2
06139	Nickel	7440-02-0	15.6	0.0976	0.390		2
06141	Selenium	7782-49-2	0.0949 J	0.0566	0.390		2
06142	Silver	7440-22-4	0.0578 J	0.0139	0.0976		2
06145	Thallium	7440-28-0	0.324	0.0293	0.0976		2
06148	Vanadium	7440-62-2	38.1	0.0215	0.0976		2
06149	Zinc	7440-66-6	88.3	0.547	2.93		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0116 J	0.0067	0.0951		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1	0.82	1.0		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.0 U	9.0	30.2		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20 U	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.88	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.55	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

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

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Sample Description: **SL-071-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA7-SS-0.0-0.5

LLI Sample # SW 6404511
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 09:26

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4208 SDG#: DE242-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11258SLA026	09/19/2011 18:24	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11258SLC026	09/23/2011 01:18	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11258SLC026	09/16/2011 07:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11258SLA026	09/15/2011 18:15	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112580024A	09/20/2011 04:51	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112620013A	09/21/2011 23:35	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112600018A	09/21/2011 21:12	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112620013A	09/20/2011 03:55	David V Hershey Jr	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112600018A	09/19/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112580024A	09/15/2011 22:00	Elaine F Stoltzfus	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112570037A	09/15/2011 20:25	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620009A	09/20/2011 13:06	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112580032A	09/20/2011 07:56	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112640001A	09/22/2011 17:41	Tracy A Cole	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112640001A	09/20/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112580032A	09/16/2011 06:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112570037A	09/15/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620009A	09/19/2011 09:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112575708003	09/23/2011 17:27	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112575708003	09/22/2011 14:36	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112575708003	09/23/2011 17:27	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112575708003	09/23/2011 17:27	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112575708003	09/22/2011 14:36	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112575708003	09/23/2011 17:27	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112575708003	09/22/2011 14:36	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112575708003	09/22/2011 14:36	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112575708003	09/23/2011 17:27	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112575708003	09/25/2011 07:35	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112575708003	09/22/2011 14:36	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112575708003	09/22/2011 14:36	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112575708003	09/22/2011 14:36	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112575708003	09/22/2011 14:36	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112571026001A	09/16/2011 09:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112571026001A	09/16/2011 09:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112571026001D	09/16/2011 09:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112571026001A	09/16/2011 09:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112571026001A	09/16/2011 09:54	Choon Y Tian	2

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

Sample Description: **SL-071-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA7-SS-0.0-0.5

LLI Sample # SW 6404511
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 09:26

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4208 SDG#: DE242-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112571026001A	09/16/2011 09:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112571026001A	09/16/2011 09:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112571026001A	09/16/2011 09:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112571026001A	09/16/2011 09:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112571026001C	09/16/2011 09:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112571026001A	09/16/2011 09:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112571026001B	09/16/2011 09:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112571026001A	09/16/2011 09:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112571026001A	09/16/2011 09:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112571026001A	09/16/2011 09:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112571026001A	09/16/2011 09:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112575711002	09/16/2011 09:20	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112575708003	09/15/2011 23:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112571026001	09/15/2011 23:08	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112575711002	09/16/2011 02:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11259621202A	09/17/2011 15:14	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11258621201B	09/16/2011 08:55	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11265243201A	09/28/2011 00:54	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11259621202A	09/16/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11258621201B	09/15/2011 06:15	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11265039402A	09/22/2011 10:50	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11265243201A	09/22/2011 10:55	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11259162402B	09/16/2011 23:10	Scott W Freisher	1

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Lancaster Laboratories

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

Analysis Report

Sample Description: SL-073-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA7-SS-0.0-0.5

LLI Sample # SW 6404512
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:30

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4209 SDG#: DE242-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	U	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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

Sample Description: **SL-073-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-073-SA7-SS-0.0-0.5

LLI Sample # SW 6404512
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:30

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4209 SDG#: DE242-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzoic acid 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.3	U	3.3	8.3		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.3		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.3		5
10138	Benzo(a)anthracene	56-55-3	4.5	J	3.3	8.3		5
10138	Benzo(a)pyrene	50-32-8	4.3	J	3.3	8.3		5
10138	Benzo(b)fluoranthene	205-99-2	18		3.3	8.3		5
10138	Benzo(g,h,i)perylene	191-24-2	3.3	U	3.3	8.3		5
10138	Benzo(k)fluoranthene	207-08-9	5.4	J	3.3	8.3		5
10138	Chrysene	218-01-9	13		1.7	8.3		5
10138	Dibenz(a,h)anthracene	53-70-3	3.3	U	3.3	8.3		5
10138	Fluoranthene	206-44-0	27		3.3	8.3		5
10138	Fluorene	86-73-7	3.3	U	3.3	8.3		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.3	U	3.3	8.3		5
10138	1-Methylnaphthalene	90-12-0	3.3	U	3.3	8.3		5
10138	2-Methylnaphthalene	91-57-6	3.3	U	3.3	8.3		5
10138	Naphthalene	91-20-3	3.7	J	3.3	8.3		5
10138	N-Nitrosodimethylamine	62-75-9	3.3	U	3.3	8.3		5
10138	Phenanthrene	85-01-8	11		3.3	8.3		5
10138	Pyrene	129-00-0	17		3.3	8.3		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	16	U	16	16		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1

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

Sample Description: SL-073-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA7-SS-0.0-0.5

LLI Sample # SW 6404512
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:30

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4209 SDG#: DE242-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	MCPA	94-74-6	76	U	76	250		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.26	U	0.26	0.26		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	1.5	J	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.46	U	0.46	0.46		1
01363	p,p-DDE	72-55-9	5.9		0.33	1.7		5
01363	p,p-DDT	50-29-3	6.3		0.33	1.7		5
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.066	U	0.066	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.089	U	0.089	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34		1
01363	Endrin	72-20-8	0.066	U	0.066	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.35	U	0.35	0.35		1
01363	Endrin Ketone	53494-70-5	0.066	U	0.066	0.34		1
01363	Heptachlor	76-44-8	0.073	J	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.18	U	0.18	0.18		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.066	U	0.066	0.34		1
01363	Toxaphene	8001-35-2	12	U	12	12		1
	The samples were injected following maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	5.0	U	5.0	17		5
10225	Aroclor 5442	12642-23-8	5.0	U	5.0	17		5
10225	Aroclor 5460	11126-42-4	75		5.0	17		5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.6		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.6		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.6		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.6		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.6		5
10225	PCB-1254	11097-69-1	30		1.7	8.6		5
10225	PCB-1260	11096-82-5	9.6		2.0	8.6		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.6		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.6		5
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	

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

Sample Description: **SL-073-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-073-SA7-SS-0.0-0.5

LLI Sample # SW 6404512
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:30

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4209 SDG#: DE242-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	160	J	100	500		1
10501	Methanol	67-56-1	330	J	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.0	U	2.0	6.0		5
10199	EFH (C15-C20)	n.a.	4.1	J	2.0	6.0		5
10199	EFH (C21-C30)	n.a.	30		2.0	6.0		5
10199	EFH (C30 - C40)	n.a.	110		2.0	6.0		5
10199	EFH (C8-C11)	n.a.	2.0	U	2.0	6.0		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,900		5.92	19.6		1
07914	Boron	7440-42-8	3.89	J	0.352	4.89		1
01650	Calcium	7440-70-2	3,600		2.44	19.6		1
01654	Iron	7439-89-6	19,200		2.55	19.6		1
01656	Lithium	7439-93-2	22.5		0.61	2.0		1
01657	Magnesium	7439-95-4	4,330		0.430	9.78		1
06958	Manganese	7439-96-5	288		0.0352	0.489		1
10145	Phosphorus	7723-14-0	477		0.342	9.78		1
01662	Potassium	7440-09-7	3,480		11.0	48.9		1
01667	Sodium	7440-23-5	109		5.82	97.8		1
07968	Strontium	7440-24-6	21.9		0.0244	0.489		1
06969	Tin	7440-31-5	3.71	J	0.313	9.78		1
06970	Titanium	7440-32-6	1,280		0.0694	0.978		1
10146	Zirconium	7440-67-7	3.10	J	0.450	4.89		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.164	J	0.0724	0.196		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.93		0.0782	0.391		2
06126	Barium	7440-39-3	125		0.104	0.391		2

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Sample Description: **SL-073-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-073-SA7-SS-0.0-0.5

LLI Sample # SW 6404512
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:30

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4209 SDG#: DE242-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.645	0.0156	0.0978		2
06128	Cadmium	7440-43-9	0.271	0.0430	0.0978		2
06131	Chromium	7440-47-3	19.0	0.117	0.391		2
06132	Cobalt	7440-48-4	7.45	0.0196	0.0978		2
06133	Copper	7440-50-8	16.5	0.0782	0.391		2
06135	Lead	7439-92-1	16.6	0.010	0.196		2
06138	Molybdenum	7439-98-7	0.742	0.0489	0.0978		2
06139	Nickel	7440-02-0	13.3	0.0978	0.391		2
06141	Selenium	7782-49-2	0.149 J	0.0567	0.391		2
06142	Silver	7440-22-4	0.0336 J	0.0139	0.0978		2
06145	Thallium	7440-28-0	0.313	0.0293	0.0978		2
06148	Vanadium	7440-62-2	44.1	0.0215	0.0978		2
06149	Zinc	7440-66-6	109	0.548	2.93		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0257 J	0.0069	0.0987		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3	0.82	1.0		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1 U	9.1	30.2		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20 U	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.85	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.70	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

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

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

Sample Description: **SL-073-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-073-SA7-SS-0.0-0.5

LLI Sample # SW 6404512
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:30

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4209 SDG#: DE242-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11258SLA026	09/20/2011 00:00	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11258SLC026	09/23/2011 01:52	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11258SLC026	09/16/2011 07:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11258SLA026	09/15/2011 18:15	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112580024A	09/20/2011 05:18	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112620013A	09/21/2011 23:49	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112620013A	09/22/2011 00:03	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112600018A	09/23/2011 08:27	Jessica L Miller	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112620013A	09/20/2011 03:55	David V Hershey Jr	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112600018A	09/19/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112580024A	09/15/2011 22:00	Elaine F Stoltzfus	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112600025A	09/19/2011 18:35	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620009A	09/20/2011 13:19	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112580032A	09/20/2011 11:18	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112640001A	09/22/2011 19:16	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112640001A	09/20/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112580032A	09/16/2011 06:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112600025A	09/19/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620009A	09/19/2011 09:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112575708003	09/23/2011 17:31	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112575708003	09/22/2011 14:40	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112575708003	09/23/2011 17:31	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112575708003	09/23/2011 17:31	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112575708003	09/22/2011 14:40	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112575708003	09/23/2011 17:31	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112575708003	09/22/2011 14:40	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112575708003	09/22/2011 14:40	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112575708003	09/23/2011 17:31	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112575708003	09/25/2011 07:39	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112575708003	09/22/2011 14:40	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112575708003	09/22/2011 14:40	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112575708003	09/22/2011 14:40	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112575708003	09/22/2011 14:40	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112571026001A	09/16/2011 10:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112571026001A	09/16/2011 10:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112571026001D	09/16/2011 10:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112571026001A	09/16/2011 10:04	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-073-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-073-SA7-SS-0.0-0.5

LLI Sample # SW 6404512
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:30

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4209 SDG#: DE242-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112571026001A	09/16/2011 10:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112571026001A	09/16/2011 10:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112571026001A	09/16/2011 10:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112571026001A	09/16/2011 10:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112571026001A	09/16/2011 10:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112571026001C	09/16/2011 10:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112571026001A	09/16/2011 10:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112571026001B	09/16/2011 10:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112571026001A	09/16/2011 10:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112571026001A	09/16/2011 10:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112571026001A	09/16/2011 10:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112571026001A	09/16/2011 10:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112575711002	09/16/2011 09:21	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112575708003	09/15/2011 23:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112571026001	09/15/2011 23:08	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112575711002	09/16/2011 02:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11259621202A	09/17/2011 15:29	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11258621201B	09/16/2011 09:18	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11265243201A	09/28/2011 01:09	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11259621202A	09/16/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11258621201B	09/15/2011 06:15	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11265039402A	09/22/2011 10:50	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11265243201A	09/22/2011 10:55	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11259162402B	09/16/2011 23:10	Scott W Freisher	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-146-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA7-SS-0.0-0.5

LLI Sample # SW 6404513
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 11:40

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4210 SDG#: DE242-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzo(g,h,i)perylene	191-24-2	21	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	330		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170		1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	240	J	17	330		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	33	U	33	170		1
04688	4-Methylphenol	106-44-5	33	U	33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	33	U	33	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1

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

Sample Description: **SL-146-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA7-SS-0.0-0.5

LLI Sample # SW 6404513
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 11:40

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4210 SDG#: DE242-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzoic acid 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.3	U	3.3	8.3		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.3		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.3		5
10138	Benzo(a)anthracene	56-55-3	3.3	U	3.3	8.3		5
10138	Benzo(a)pyrene	50-32-8	3.3	U	3.3	8.3		5
10138	Benzo(b)fluoranthene	205-99-2	12		3.3	8.3		5
10138	Benzo(k)fluoranthene	207-08-9	3.3	U	3.3	8.3		5
10138	Chrysene	218-01-9	8.3	J	1.7	8.3		5
10138	Dibenz(a,h)anthracene	53-70-3	3.3	U	3.3	8.3		5
10138	Fluoranthene	206-44-0	5.0	J	3.3	8.3		5
10138	Fluorene	86-73-7	3.3	U	3.3	8.3		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.3	U	3.3	8.3		5
10138	1-Methylnaphthalene	90-12-0	3.3	U	3.3	8.3		5
10138	2-Methylnaphthalene	91-57-6	3.3	U	3.3	8.3		5
10138	Naphthalene	91-20-3	5.2	J	3.3	8.3		5
10138	N-Nitrosodimethylamine	62-75-9	3.3	U	3.3	8.3		5
10138	Di-n-octylphthalate	117-84-0	30	J	30	90		5
10138	Phenanthrene	85-01-8	3.3	U	3.3	8.3		5
10138	Pyrene	129-00-0	5.7	J	3.3	8.3		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	1.2	U	1.2	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1

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

Sample Description: SL-146-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA7-SS-0.0-0.5

LLI Sample # SW 6404513
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 11:40

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4210 SDG#: DE242-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	MCPA	94-74-6	76	U	76	250		1
10401	MCPP (Mecoprop)	93-65-2	200	U	200	250		1
10401	2,4,5-T	93-76-5	0.20		0.082	0.17		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1
	Reporting limits were raised due to interference from the sample matrix.							
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	3.6	J	2.1	5.0		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.33	U	0.33	0.83		5
01363	Alpha BHC	319-84-6	0.17	U	0.17	0.83		5
01363	Beta BHC	319-85-7	0.30	U	0.30	0.83		5
01363	Gamma BHC - Lindane	58-89-9	0.17	U	0.17	0.83		5
01363	Chlordane	57-74-9	22	U	22	22		5
01363	p,p-DDD	72-54-8	0.33	U	0.33	1.7		5
01363	p,p-DDE	72-55-9	22		1.3	6.8		20
01363	p,p-DDT	50-29-3	46		1.3	6.8		20
01363	Delta BHC	319-86-8	0.18	U	0.18	0.83		5
01363	Dieldrin	60-57-1	13	U	13	13		5
01363	Endosulfan I	959-98-8	0.22	U	0.22	0.83		5
01363	Endosulfan II	33213-65-9	3.7	U	3.7	3.7		5
01363	Endosulfan Sulfate	1031-07-8	0.33	U	0.33	1.7		5
01363	Endrin	72-20-8	4.1	U	4.1	4.1		5
01363	Endrin Aldehyde	7421-93-4	4.8	U	4.8	4.8		5
01363	Endrin Ketone	53494-70-5	0.33	U	0.33	1.7		5
01363	Heptachlor	76-44-8	0.30	U	0.30	0.83		5
01363	Heptachlor Epoxide	1024-57-3	4.5	U	4.5	4.5		5
01363	Methoxychlor	72-43-5	1.7	U	1.7	8.3		5
01363	Mirex	2385-85-5	0.66	U	0.66	1.7		5
01363	Toxaphene	8001-35-2	270	U	270	270		5
	The samples were injected following maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	100	U	100	330		100
10225	Aroclor 5442	12642-23-8	100	U	100	330		100
10225	Aroclor 5460	11126-42-4	910		100	330		100
10225	PCB-1016	12674-11-2	33	U	33	170		100
10225	PCB-1221	11104-28-2	33	U	33	170		100
10225	PCB-1232	11141-16-5	33	U	33	170		100
10225	PCB-1242	53469-21-9	33	U	33	170		100
10225	PCB-1248	12672-29-6	33	U	33	170		100
10225	PCB-1254	11097-69-1	970		33	170		100
10225	PCB-1260	11096-82-5	39	U	39	170		100
10225	PCB-1262	37324-23-5	33	U	33	170		100

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

Sample Description: **SL-146-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA7-SS-0.0-0.5

LLI Sample # SW 6404513
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 11:40

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4210 SDG#: DE242-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	33	U	33	170		100
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,400		5.93	19.6		1
07914	Boron	7440-42-8	2.17	J	0.353	4.90		1
01650	Calcium	7440-70-2	7,320		2.45	19.6		1
01654	Iron	7439-89-6	28,100		12.8	98.0		5
01656	Lithium	7439-93-2	20.6		0.61	2.0		1
01657	Magnesium	7439-95-4	4,180		0.431	9.80		1
06958	Manganese	7439-96-5	301		0.0353	0.490		1
10145	Phosphorus	7723-14-0	529		0.343	9.80		1
01662	Potassium	7440-09-7	2,870		11.1	49.0		1
01667	Sodium	7440-23-5	394		5.83	98.0		1
07968	Strontium	7440-24-6	19.9		0.0245	0.490		1
06969	Tin	7440-31-5	4.49	J	0.314	9.80		1
06970	Titanium	7440-32-6	1,160		0.0696	0.980		1
10146	Zirconium	7440-67-7	4.01	J	0.451	4.90		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.452		0.0733	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.26		0.0792	0.396		2
06126	Barium	7440-39-3	111		0.105	0.396		2
06127	Beryllium	7440-41-7	0.441		0.0158	0.0990		2
06128	Cadmium	7440-43-9	1.36		0.0436	0.0990		2
06131	Chromium	7440-47-3	184		0.297	0.990		5
06132	Cobalt	7440-48-4	10.1		0.0198	0.0990		2
06133	Copper	7440-50-8	30.4		0.0792	0.396		2
06135	Lead	7439-92-1	41.6		0.0101	0.198		2
06138	Molybdenum	7439-98-7	7.99		0.0495	0.0990		2
06139	Nickel	7440-02-0	163		0.0990	0.396		2
06141	Selenium	7782-49-2	0.114	J	0.0574	0.396		2
06142	Silver	7440-22-4	0.168		0.0141	0.0990		2
06145	Thallium	7440-28-0	0.239		0.0297	0.0990		2
06148	Vanadium	7440-62-2	43.1		0.0218	0.0990		2
06149	Zinc	7440-66-6	278		1.39	7.43		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.984		0.0332	0.472		5
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.0	U	9.0	30.0		1

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Sample Description: **SL-146-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA7-SS-0.0-0.5

LLI Sample # SW 6404513
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 11:40

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4210 SDG#: DE242-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.94	J	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.48		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.50	U	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11258SLA026	09/20/2011 00:25	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11258SLC026	09/23/2011 02:26	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11258SLC026	09/16/2011 07:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11258SLA026	09/15/2011 18:15	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112580024A	09/20/2011 05:46	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112600024A	09/19/2011 16:26	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112620013A	09/22/2011 00:17	Melissa McDermott	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	112620013A	09/22/2011 00:32	Melissa McDermott	20
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112600018A	09/21/2011 23:05	Jessica L Miller	100
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112620013A	09/20/2011 03:55	David V Hershey Jr	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112600018A	09/19/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112580024A	09/15/2011 22:00	Elaine F Stoltzfus	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112600024A	09/19/2011 09:20	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	112575708003	09/23/2011 17:35	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112575708003	09/22/2011 14:44	Eric L Eby	1

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-146-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA7-SS-0.0-0.5

LLI Sample # SW 6404513
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 11:40

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4210 SDG#: DE242-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	112575708003	09/23/2011 17:35	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112575708003	09/23/2011 17:39	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	112575708003	09/22/2011 14:44	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112575708003	09/23/2011 17:35	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112575708003	09/22/2011 14:44	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112575708003	09/22/2011 14:44	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112575708003	09/23/2011 17:35	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112575708003	09/25/2011 07:43	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112575708003	09/22/2011 14:44	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112575708003	09/22/2011 14:44	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112575708003	09/22/2011 14:44	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112575708003	09/22/2011 14:44	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112571026001A	09/16/2011 10:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112571026001A	09/16/2011 10:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112571026001D	09/16/2011 10:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112571026001A	09/16/2011 10:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112571026001A	09/16/2011 10:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112571026001A	09/16/2011 10:44	Choon Y Tian	5
06132	Cobalt	SW-846 6020	1	112571026001A	09/16/2011 10:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112571026001A	09/16/2011 10:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112571026001A	09/16/2011 10:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112571026001C	09/16/2011 10:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112571026001A	09/16/2011 10:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112571026001B	09/16/2011 10:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112571026001A	09/16/2011 10:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112571026001A	09/16/2011 10:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112571026001A	09/16/2011 10:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112571026001A	09/16/2011 10:44	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	112575711002	09/16/2011 09:33	Damary Valentin	5
05708	SW SW846 ICP Digest	SW-846 3050B	1	112575708003	09/15/2011 23:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112571026001	09/15/2011 23:08	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112575711002	09/16/2011 02:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11259621202A	09/17/2011 15:43	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11258621201B	09/16/2011 09:41	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11265243201A	09/28/2011 01:23	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11259621202A	09/16/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11258621201B	09/15/2011 06:15	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11265039402B	09/22/2011 10:50	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11265243201A	09/22/2011 10:55	Yolunder Y Bunch	1

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Lancaster Laboratories

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

Analysis Report

Sample Description: **SL-146-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA7-SS-0.0-0.5

LLI Sample # SW 6404513
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 11:40

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4210 SDG#: DE242-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11259162402B	09/16/2011 23:10	Scott W Freisher	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-338-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-338-SA5B-SB-7.0-8.0

LLI Sample # SW 6404514
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 09:00

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4211 SDG#: DE242-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.4	U	17.4	34.7		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzo(g,h,i)perylene	191-24-2	110	J	18	180		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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

Sample Description: SL-338-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-338-SA5B-SB-7.0-8.0

LLI Sample # SW 6404514
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 09:00

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4211 SDG#: DE242-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzoic acid 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	15		0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	460		7.0	17		10
10138	Benzo(a)pyrene	50-32-8	490		7.0	17		10
10138	Benzo(b)fluoranthene	205-99-2	700		7.0	17		10
10138	Benzo(k)fluoranthene	207-08-9	330		0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	560		3.5	17		10
10138	Dibenz(a,h)anthracene	53-70-3	31		0.70	1.7		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.9	J	6.3	19		1
10138	Fluoranthene	206-44-0	150		0.70	1.7		1
10138	Fluorene	86-73-7	0.80	J	0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	95		0.70	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	8.9		0.70	1.7		1
10138	Pyrene	129-00-0	250		0.70	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		27
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	63	U	63	130	10000000	1

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Sample Description: SL-338-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-338-SA5B-SB-7.0-8.0

LLI Sample # SW 6404514
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 09:00

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4211 SDG#: DE242-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	84	U	84	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	84	U	84	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	840	U	840	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	84	U	84	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	84	U	84	130	10000000	1
10132	PETN	78-11-5	840	U	840	2,500	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	64	U	64	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	630	U	630	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1

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Sample Description: **SL-338-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-338-SA5B-SB-7.0-8.0

LLI Sample # SW 6404514
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Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E4211 SDG#: DE242-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	340	J	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C21-C30)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,200		6.18	20.4		1
07914	Boron	7440-42-8	2.97	J	0.368	5.11		1
01650	Calcium	7440-70-2	6,680		2.55	20.4		1
01654	Iron	7439-89-6	22,100		2.67	20.4		1
01656	Lithium	7439-93-2	9.3		0.63	2.0		1
01657	Magnesium	7439-95-4	3,560		0.450	10.2		1
06958	Manganese	7439-96-5	224		0.0368	0.511		1
10145	Phosphorus	7723-14-0	1,490		0.358	10.2		1
01662	Potassium	7440-09-7	2,300		11.5	51.1		1
01667	Sodium	7440-23-5	254		6.08	102		1
07968	Strontium	7440-24-6	35.5		0.0255	0.511		1
06969	Tin	7440-31-5	2.25	J	0.327	10.2		1
06970	Titanium	7440-32-6	1,380		0.0726	1.02		1
10146	Zirconium	7440-67-7	2.32	J	0.470	5.11		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.146	J	0.0764	0.206		2

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Sample Description: **SL-338-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-338-SA5B-SB-7.0-8.0

LLI Sample # SW 6404514
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 09:00

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4211 SDG#: DE242-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	2.20	0.0826	0.413		2
06126	Barium	7440-39-3	99.5	0.109	0.413		2
06127	Beryllium	7440-41-7	0.337	0.0165	0.103		2
06128	Cadmium	7440-43-9	0.0949 J	0.0454	0.103		2
06131	Chromium	7440-47-3	12.6	0.124	0.413		2
06132	Cobalt	7440-48-4	6.34	0.0206	0.103		2
06133	Copper	7440-50-8	17.3	0.0826	0.413		2
06135	Lead	7439-92-1	3.39	0.0105	0.206		2
06138	Molybdenum	7439-98-7	0.297	0.0516	0.103		2
06139	Nickel	7440-02-0	7.71	0.103	0.413		2
06141	Selenium	7782-49-2	0.0599 U	0.0599	0.413		2
06142	Silver	7440-22-4	0.0201 J	0.0147	0.103		2
06145	Thallium	7440-28-0	0.140	0.0310	0.103		2
06148	Vanadium	7440-62-2	44.4	0.0227	0.103		2
06149	Zinc	7440-66-6	50.1	0.578	3.10		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0181 J	0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3	0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.1 J	0.85	1.6		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5 U	9.5	31.6		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21 U	0.21	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.52		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.30	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.0	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Lancaster Laboratories

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

Analysis Report

Sample Description: SL-338-SA5B-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-338-SA5B-SB-7.0-8.0

LLI Sample # SW 6404514
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 09:00

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4211 SDG#: DE242-11

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-338-SA5B-SB-7.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11257SLL026	09/20/2011 21:51	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11258SLA026	09/20/2011 00:50	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11258SLC026	09/23/2011 02:59	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11258SLC026	09/23/2011 18:47	Gregory J Drahovsky	10
11630	NDMA Soil Microwave	SW-846 3546	1	11257SLL026	09/15/2011 09:10	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11258SLC026	09/16/2011 07:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11258SLA026	09/15/2011 18:15	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11264A34A	09/21/2011 14:38	Marie D John	27
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201125725542	09/14/2011 13:03	Larry E Bevins	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201125725542	09/14/2011 13:05	Larry E Bevins	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	3	201125725542	09/14/2011 13:03	Larry E Bevins	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	4	201125725542	09/14/2011 13:04	Larry E Bevins	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112640025A	09/24/2011 01:38	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112620004A	09/21/2011 19:28	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112600018A	09/21/2011 23:24	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112600018A	09/19/2011 10:30	Olivia Arosemena	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112620004A	09/19/2011 17:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112640025A	09/22/2011 11:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112570037A	09/15/2011 20:55	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620009A	09/20/2011 13:32	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112580032A	09/20/2011 08:18	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112640001A	09/22/2011 17:17	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112640001A	09/20/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112580032A	09/16/2011 06:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112570037A	09/15/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620009A	09/19/2011 09:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112575708003	09/23/2011 17:43	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112575708003	09/22/2011 14:47	Eric L Eby	1

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Sample Description: **SL-338-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-338-SA5B-SB-7.0-8.0

LLI Sample # SW 6404514
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 09:00

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4211 SDG#: DE242-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	112575708003	09/23/2011 17:43	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112575708003	09/23/2011 17:43	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112575708003	09/22/2011 14:47	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112575708003	09/23/2011 17:43	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112575708003	09/22/2011 14:47	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112575708003	09/22/2011 14:47	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112575708003	09/23/2011 17:43	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112575708003	09/25/2011 07:47	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112575708003	09/22/2011 14:47	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112575708003	09/22/2011 14:47	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112575708003	09/22/2011 14:47	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112575708003	09/22/2011 14:47	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112571026001A	09/16/2011 10:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112571026001A	09/16/2011 10:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112571026001D	09/16/2011 10:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112571026001A	09/16/2011 10:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112571026001A	09/16/2011 10:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112571026001A	09/16/2011 10:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112571026001A	09/16/2011 10:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112571026001A	09/16/2011 10:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112571026001A	09/16/2011 10:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112571026001C	09/16/2011 10:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112571026001A	09/16/2011 10:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112571026001B	09/16/2011 10:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112571026001A	09/16/2011 10:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112571026001A	09/16/2011 10:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112571026001A	09/16/2011 10:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112571026001A	09/16/2011 10:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112575711002	09/16/2011 09:24	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112575708003	09/15/2011 23:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112571026001	09/15/2011 23:08	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112575711002	09/16/2011 02:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11259621202A	09/17/2011 15:57	Joseph E McKenzie	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11259621202A	09/17/2011 15:57	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11258621201B	09/16/2011 10:04	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11265243201A	09/28/2011 01:38	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11263102201A	09/20/2011 18:50	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11259621202A	09/16/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11258621201B	09/15/2011 06:15	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11263102201A	09/20/2011 16:00	Carolyn M Mastropietro	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: **SL-338-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-338-SA5B-SB-7.0-8.0

LLI Sample # SW 6404514
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 09:00

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4211 SDG#: DE242-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	17a pH by 9045C	SW-846 9045C modified	1	11265039402B	09/22/2011 10:50	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11265243201A	09/22/2011 10:55	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	2	11273162401A	09/30/2011 23:10	Scott W Freisher	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-341-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-341-SA5B-SB-4.0-5.0

LLI Sample # SW 6404515
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 11:43

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4212 SDG#: DE242-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	185	U	185	370		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U	19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	Diethylphthalate	84-66-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	Dimethylphthalate	131-11-3	19	U	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1

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

Sample Description: SL-341-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-341-SA5B-SB-4.0-5.0

LLI Sample # SW 6404515
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 11:43

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4212 SDG#: DE242-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U	19	190		1
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzoic acid 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.7	U	3.7	9.3		5
10138	Acenaphthylene	208-96-8	1.9	U	1.9	9.3		5
10138	Anthracene	120-12-7	2.3	J	1.9	9.3		5
10138	Benzo(a)anthracene	56-55-3	4.4	J	3.7	9.3		5
10138	Benzo(a)pyrene	50-32-8	4.4	J	3.7	9.3		5
10138	Benzo(b)fluoranthene	205-99-2	9.7		3.7	9.3		5
10138	Benzo(g,h,i)perylene	191-24-2	3.7	U	3.7	9.3		5
10138	Benzo(k)fluoranthene	207-08-9	3.7	U	3.7	9.3		5
10138	Chrysene	218-01-9	9.7		1.9	9.3		5
10138	Dibenz(a,h)anthracene	53-70-3	3.7	U	3.7	9.3		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	190		34	100		5
10138	Fluoranthene	206-44-0	13		3.7	9.3		5
10138	Fluorene	86-73-7	3.7	U	3.7	9.3		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.7	U	3.7	9.3		5
10138	1-Methylnaphthalene	90-12-0	3.7	U	3.7	9.3		5
10138	2-Methylnaphthalene	91-57-6	3.7	U	3.7	9.3		5
10138	Naphthalene	91-20-3	5.2	J	3.7	9.3		5
10138	N-Nitrosodimethylamine	62-75-9	3.7	U	3.7	9.3		5
10138	Phenanthrene	85-01-8	14		3.7	9.3		5
10138	Pyrene	129-00-0	12		3.7	9.3		5
	Reporting limits were raised due to interference from the sample matrix.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.56
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1

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

Sample Description: SL-341-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-341-SA5B-SB-4.0-5.0

LLI Sample # SW 6404515
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 11:43

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4212 SDG#: DE242-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	140	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	5,000		680	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.6		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1

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Sample Description: SL-341-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-341-SA5B-SB-4.0-5.0

LLI Sample # SW 6404515
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 11:43

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4212 SDG#: DE242-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.70	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	410	J	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	2.3	U	2.3	6.8		5
10199	EFH (C15-C20)	n.a.	3.2	J	2.3	6.8		5
10199	EFH (C21-C30)	n.a.	57		2.3	6.8		5
10199	EFH (C30 - C40)	n.a.	140		2.3	6.8		5
10199	EFH (C8-C11)	n.a.	2.3	U	2.3	6.8		5
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	15,200		6.69	22.1		1
07914	Boron	7440-42-8	4.29	J	0.398	5.53		1
01650	Calcium	7440-70-2	7,000		2.77	22.1		1
01654	Iron	7439-89-6	18,100		2.89	22.1		1
01656	Lithium	7439-93-2	18.1		0.69	2.2		1
01657	Magnesium	7439-95-4	4,180		0.487	11.1		1
06958	Manganese	7439-96-5	270		0.0398	0.553		1
10145	Phosphorus	7723-14-0	424		0.387	11.1		1
01662	Potassium	7440-09-7	2,710		12.5	55.3		1
01667	Sodium	7440-23-5	603		6.58	111		1
07968	Strontium	7440-24-6	28.8		0.0277	0.553		1
06969	Tin	7440-31-5	3.02	J	0.354	11.1		1
06970	Titanium	7440-32-6	1,230		0.0786	1.11		1
10146	Zirconium	7440-67-7	3.82	J	0.509	5.53		1

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

Sample Description: SL-341-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-341-SA5B-SB-4.0-5.0

LLI Sample # SW 6404515
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 11:43

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4212 SDG#: DE242-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.238		0.0827	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.94		0.0894	0.447		2
06126	Barium	7440-39-3	149		0.118	0.447		2
06127	Beryllium	7440-41-7	0.744		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.296		0.0492	0.112		2
06131	Chromium	7440-47-3	23.8		0.134	0.447		2
06132	Cobalt	7440-48-4	7.79		0.0223	0.112		2
06133	Copper	7440-50-8	15.8		0.0894	0.447		2
06135	Lead	7439-92-1	8.69		0.0114	0.223		2
06138	Molybdenum	7439-98-7	1.01		0.0559	0.112		2
06139	Nickel	7440-02-0	15.2		0.112	0.447		2
06141	Selenium	7782-49-2	0.420	J	0.0648	0.447		2
06142	Silver	7440-22-4	0.0506	J	0.0159	0.112		2
06145	Thallium	7440-28-0	0.323		0.0335	0.112		2
06148	Vanadium	7440-62-2	48.8		0.0246	0.112		2
06149	Zinc	7440-66-6	122		0.626	3.35		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0241	J	0.0077	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.92	U	0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.92	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	9.75		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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

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Analysis Report

Sample Description: SL-341-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-341-SA5B-SB-4.0-5.0

LLI Sample # SW 6404515
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 11:43

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4212 SDG#: DE242-12

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-341-SA5B-SB-4.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11257SLL026	09/20/2011 22:11	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11258SLA026	09/20/2011 01:15	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11258SLC026	09/23/2011 03:33	Gregory J Drahovsky	5
11630	NDMA Soil Microwave	SW-846 3546	1	11257SLL026	09/15/2011 09:10	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11258SLC026	09/16/2011 07:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11258SLA026	09/15/2011 18:15	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11264A34A	09/21/2011 18:08	Marie D John	22.56
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201125725542	09/14/2011 12:56	Larry E Bevins	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201125725542	09/14/2011 12:56	Larry E Bevins	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112640025A	09/24/2011 03:45	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112620004A	09/21/2011 19:47	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112600024A	09/19/2011 16:38	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112600018A	09/21/2011 23:43	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112600018A	09/19/2011 10:30	Olivia Arosemena	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112600024A	09/19/2011 09:20	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112620004A	09/19/2011 17:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112640025A	09/22/2011 11:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112570037A	09/15/2011 21:09	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620009A	09/20/2011 13:45	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112580032A	09/20/2011 09:03	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112640001A	09/22/2011 19:40	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112640001A	09/20/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112580032A	09/16/2011 06:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112570037A	09/15/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620009A	09/19/2011 09:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112575708003	09/23/2011 17:47	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112575708003	09/22/2011 14:51	Eric L Eby	1

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

Sample Description: **SL-341-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-341-SA5B-SB-4.0-5.0

LLI Sample # SW 6404515
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 11:43

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4212 SDG#: DE242-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	112575708003	09/23/2011 17:47	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112575708003	09/23/2011 17:47	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112575708003	09/22/2011 14:51	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112575708003	09/23/2011 17:47	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112575708003	09/22/2011 14:51	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112575708003	09/22/2011 14:51	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112575708003	09/23/2011 17:47	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112575708003	09/25/2011 07:51	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112575708003	09/22/2011 14:51	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112575708003	09/22/2011 14:51	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112575708003	09/22/2011 14:51	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112575708003	09/22/2011 14:51	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112571026001A	09/16/2011 10:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112571026001A	09/16/2011 10:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112571026001D	09/16/2011 10:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112571026001A	09/16/2011 10:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112571026001A	09/16/2011 10:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112571026001A	09/16/2011 10:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112571026001A	09/16/2011 10:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112571026001A	09/16/2011 10:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112571026001A	09/16/2011 10:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112571026001C	09/16/2011 10:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112571026001A	09/16/2011 10:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112571026001B	09/16/2011 10:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112571026001A	09/16/2011 10:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112571026001A	09/16/2011 10:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112571026001A	09/16/2011 10:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112571026001A	09/16/2011 10:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112575711002	09/16/2011 09:25	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112575708003	09/15/2011 23:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112571026001	09/15/2011 23:08	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112575711002	09/16/2011 02:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11259621202B	09/17/2011 16:11	Joseph E McKenzie	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11259621202B	09/17/2011 16:11	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11258621201B	09/16/2011 10:27	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11265243201A	09/28/2011 01:52	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11263102201A	09/20/2011 18:54	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11259621202B	09/16/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11258621201B	09/15/2011 06:15	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11263102201A	09/20/2011 16:00	Carolyn M Mastropietro	1

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

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Analysis Report

Sample Description: **SL-341-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-341-SA5B-SB-4.0-5.0

LLI Sample # SW 6404515
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 11:43

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4212 SDG#: DE242-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	17a pH by 9045C	SW-846 9045C modified	1	11265039402B	09/22/2011 10:50	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11265243201A	09/22/2011 10:55	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11272162401A	09/29/2011 21:46	Scott W Freisher	1

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

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Analysis Report

Sample Description: SL-341-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-341-SA5B-SB-9.0-10.0

LLI Sample # SW 6404516
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 11:47

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4213 SDG#: DE242-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	181	U	181	361		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	60	J	18	370		1
04688	Fluoranthene	206-44-0	19	J	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1

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

Sample Description: SL-341-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-341-SA5B-SB-9.0-10.0

LLI Sample # SW 6404516
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 11:47

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4213 SDG#: DE242-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenanthrene	85-01-8	24	J	18	180		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Pyrene	129-00-0	19	J	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzoic acid 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	1.0	J	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	1.2	J	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.8	J	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.4	J	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	3.0		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	2.5		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluorene	86-73-7	1.4	J	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.79	J	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.41
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1

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Sample Description: SL-341-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-341-SA5B-SB-9.0-10.0

LLI Sample # SW 6404516
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 11:47

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4213 SDG#: DE242-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,600	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	4,600		660	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	2.1		0.36	1.9		1
10225	PCB-1260	11096-82-5	0.78	J	0.43	1.9		1

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Sample Description: SL-341-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-341-SA5B-SB-9.0-10.0

LLI Sample # SW 6404516
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 11:47

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4213 SDG#: DE242-13

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs		**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262		37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268		11100-14-4	0.36	U	0.36	1.9		1
GC Miscellaneous		**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol		64-17-5	110	U	110	550		1
10501	Isopropanol		67-63-0	110	U	110	550		1
10501	Methanol		67-56-1	420	J	110	550		1
GC Miscellaneous		**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol		111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol		107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol		57-55-6	5.5	U	5.5	11		1
GC Petroleum Hydrocarbons		**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl		92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl		84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl		92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons		**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)		n.a.	2.2	U	2.2	6.6		5
10199	EFH (C15-C20)		n.a.	6.5	J	2.2	6.6		5
10199	EFH (C21-C30)		n.a.	45		2.2	6.6		5
10199	EFH (C30 - C40)		n.a.	130		2.2	6.6		5
10199	EFH (C8-C11)		n.a.	2.2	U	2.2	6.6		5
Metals		**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum		7429-90-5	14,800		6.65	22.0		1
07914	Boron		7440-42-8	4.09	J	0.396	5.49		1
01650	Calcium		7440-70-2	6,010		2.75	22.0		1
01654	Iron		7439-89-6	17,400		2.87	22.0		1
01656	Lithium		7439-93-2	20.2		0.68	2.2		1
01657	Magnesium		7439-95-4	3,890		0.484	11.0		1
06958	Manganese		7439-96-5	285		0.0396	0.549		1
10145	Phosphorus		7723-14-0	377		0.385	11.0		1
01662	Potassium		7440-09-7	2,600		12.4	54.9		1
01667	Sodium		7440-23-5	457		6.54	110		1
07968	Strontium		7440-24-6	23.0		0.0275	0.549		1
06969	Tin		7440-31-5	3.05	J	0.352	11.0		1
06970	Titanium		7440-32-6	1,180		0.0780	1.10		1
10146	Zirconium		7440-67-7	3.72	J	0.505	5.49		1
		SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony		7440-36-0	0.278		0.0782	0.211		2

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Sample Description: SL-341-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-341-SA5B-SB-9.0-10.0

LLI Sample # SW 6404516
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 11:47

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4213 SDG#: DE242-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.58		0.0845	0.423		2
06126	Barium	7440-39-3	136		0.112	0.423		2
06127	Beryllium	7440-41-7	0.755		0.0169	0.106		2
06128	Cadmium	7440-43-9	0.185		0.0465	0.106		2
06131	Chromium	7440-47-3	23.5		0.127	0.423		2
06132	Cobalt	7440-48-4	8.84		0.0211	0.106		2
06133	Copper	7440-50-8	12.5		0.0845	0.423		2
06135	Lead	7439-92-1	7.73		0.0108	0.211		2
06138	Molybdenum	7439-98-7	1.06		0.0528	0.106		2
06139	Nickel	7440-02-0	16.0		0.106	0.423		2
06141	Selenium	7782-49-2	0.258	J	0.0613	0.423		2
06142	Silver	7440-22-4	0.0483	J	0.0150	0.106		2
06145	Thallium	7440-28-0	0.347		0.0317	0.106		2
06148	Vanadium	7440-62-2	47.5		0.0232	0.106		2
06149	Zinc	7440-66-6	87.1		0.592	3.17		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0603	J	0.0076	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.1	J	0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	10.6		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: **SL-341-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-341-SA5B-SB-9.0-10.0

LLI Sample # SW 6404516
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 11:47

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4213 SDG#: DE242-13

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-341-SA5B-SB-9.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11257SLL026	09/20/2011 22:30	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11258SLA026	09/20/2011 01:40	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11258SLC026	09/23/2011 04:07	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11257SLL026	09/15/2011 09:10	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11258SLC026	09/16/2011 07:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11258SLA026	09/15/2011 18:15	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11264A34A	09/22/2011 00:48	Marie D John	23.41
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201125725542	09/14/2011 12:57	Larry E Bevins	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201125725542	09/14/2011 12:57	Larry E Bevins	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112640025A	09/24/2011 04:28	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112620004A	09/21/2011 19:57	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112600018A	09/22/2011 00:01	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112600018A	09/19/2011 10:30	Olivia Arosemena	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112620004A	09/19/2011 17:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112640025A	09/22/2011 11:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112570037A	09/15/2011 21:24	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620009A	09/20/2011 13:58	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112580032A	09/20/2011 09:26	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112640001A	09/22/2011 20:04	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112640001A	09/20/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112580032A	09/16/2011 06:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112570037A	09/15/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620009A	09/19/2011 09:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112575708003	09/23/2011 17:51	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112575708003	09/22/2011 14:55	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112575708003	09/23/2011 17:51	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112575708003	09/23/2011 17:51	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112575708003	09/22/2011 14:55	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112575708003	09/23/2011 17:51	Eric L Eby	1

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Sample Description: **SL-341-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-341-SA5B-SB-9.0-10.0

LLI Sample # SW 6404516
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 11:47

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4213 SDG#: DE242-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	112575708003	09/22/2011 14:55	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112575708003	09/22/2011 14:55	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112575708003	09/23/2011 17:51	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112575708003	09/25/2011 07:55	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112575708003	09/22/2011 14:55	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112575708003	09/22/2011 14:55	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112575708003	09/22/2011 14:55	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112575708003	09/22/2011 14:55	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112571026001A	09/16/2011 10:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112571026001A	09/16/2011 10:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112571026001D	09/16/2011 10:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112571026001A	09/16/2011 10:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112571026001A	09/16/2011 10:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112571026001A	09/16/2011 10:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112571026001A	09/16/2011 10:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112571026001A	09/16/2011 10:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112571026001A	09/16/2011 10:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112571026001C	09/16/2011 10:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112571026001A	09/16/2011 10:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112571026001B	09/16/2011 10:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112571026001A	09/16/2011 10:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112571026001A	09/16/2011 10:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112571026001A	09/16/2011 10:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112571026001A	09/16/2011 10:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112575711002	09/16/2011 09:29	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112575708003	09/15/2011 23:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112571026001	09/15/2011 23:08	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112575711002	09/16/2011 02:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11259621202B	09/17/2011 16:54	Joseph E McKenzie	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11259621202B	09/17/2011 16:54	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11258621201B	09/16/2011 10:50	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11265243201A	09/28/2011 02:21	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11263102201A	09/20/2011 18:55	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11259621202B	09/16/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11258621201B	09/15/2011 06:15	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11263102201A	09/20/2011 16:00	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11265039402B	09/22/2011 10:50	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11265243201A	09/22/2011 10:55	Yolunder Y Bunch	1

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Lancaster Laboratories

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

Analysis Report

Sample Description: **SL-341-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-341-SA5B-SB-9.0-10.0

LLI Sample # SW 6404516
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 11:47

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4213 SDG#: DE242-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11272162401A	09/29/2011 21:46	Scott W Freisher	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-342-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-342-SA5B-SB-4.0-5.0

LLI Sample # SW 6404517
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:50

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4214 SDG#: DE242-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	185	U	185	370		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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Sample Description: **SL-342-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-342-SA5B-SB-4.0-5.0

LLI Sample # SW 6404517
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:50

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4214 SDG#: DE242-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzoic acid 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.96	J	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.79	J	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.78
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1

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Sample Description: SL-342-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-342-SA5B-SB-4.0-5.0

LLI Sample # SW 6404517
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:50

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4214 SDG#: DE242-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	1.7	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1

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SSFL Area IV Collocated Soil Sampling
SL-342-SA5B-SB-4.0-5.0

LLI Sample # SW 6404517
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14420 Albemarle Point Place
Suite 210
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E4214 SDG#: DE242-14

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs		**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262		37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268		11100-14-4	0.37	U	0.37	1.9		1
GC Miscellaneous		**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol		64-17-5	110	U	110	560		1
10501	Isopropanol		67-63-0	110	U	110	560		1
10501	Methanol		67-56-1	290	J	110	560		1
GC Miscellaneous		**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol		111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol		107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol		57-55-6	5.6	U	5.6	11		1
GC Petroleum Hydrocarbons		**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl		92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl		84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl		92-94-4	1.7	U	1.7	3.9		1
GC Petroleum Hydrocarbons		**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)		n.a.	2.2	U	2.2	6.7		5
10199	EFH (C15-C20)		n.a.	2.7	J	2.2	6.7		5
10199	EFH (C21-C30)		n.a.	54		2.2	6.7		5
10199	EFH (C30 - C40)		n.a.	120		2.2	6.7		5
10199	EFH (C8-C11)		n.a.	2.2	U	2.2	6.7		5
Metals		**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum		7429-90-5	17,300		6.68	22.1		1
07914	Boron		7440-42-8	4.96	J	0.397	5.52		1
01650	Calcium		7440-70-2	7,970		2.76	22.1		1
01654	Iron		7439-89-6	19,000		2.88	22.1		1
01656	Lithium		7439-93-2	21.2		0.68	2.2		1
01657	Magnesium		7439-95-4	4,320		0.486	11.0		1
06958	Manganese		7439-96-5	358		0.0397	0.552		1
10145	Phosphorus		7723-14-0	327		0.386	11.0		1
01662	Potassium		7440-09-7	2,920		12.5	55.2		1
01667	Sodium		7440-23-5	495		6.57	110		1
07968	Strontium		7440-24-6	22.0		0.0276	0.552		1
06969	Tin		7440-31-5	3.02	J	0.353	11.0		1
06970	Titanium		7440-32-6	1,300		0.0784	1.10		1
10146	Zirconium		7440-67-7	3.91	J	0.508	5.52		1
		SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony		7440-36-0	0.301		0.0801	0.216		2

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Sample Description: SL-342-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-342-SA5B-SB-4.0-5.0

LLI Sample # SW 6404517
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:50

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4214 SDG#: DE242-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.42		0.0866	0.433		2
06126	Barium	7440-39-3	156		0.115	0.433		2
06127	Beryllium	7440-41-7	0.898		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.236		0.0476	0.108		2
06131	Chromium	7440-47-3	31.8		0.130	0.433		2
06132	Cobalt	7440-48-4	9.72		0.0216	0.108		2
06133	Copper	7440-50-8	16.2		0.0866	0.433		2
06135	Lead	7439-92-1	9.57		0.0110	0.216		2
06138	Molybdenum	7439-98-7	1.01		0.0541	0.108		2
06139	Nickel	7440-02-0	19.4		0.108	0.433		2
06141	Selenium	7782-49-2	0.407	J	0.0628	0.433		2
06142	Silver	7440-22-4	0.0558	J	0.0154	0.108		2
06145	Thallium	7440-28-0	0.356		0.0325	0.108		2
06148	Vanadium	7440-62-2	63.5		0.0238	0.108		2
06149	Zinc	7440-66-6	92.6		0.606	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0266	J	0.0077	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.5		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.1		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.38	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	9.45		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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

Sample Description: **SL-342-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-342-SA5B-SB-4.0-5.0

LLI Sample # SW 6404517
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:50

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4214 SDG#: DE242-14

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-342-SA5B-SB-4.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11257SLL026	09/20/2011 22:49	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11258SLA026	09/20/2011 02:05	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11258SLC026	09/23/2011 04:41	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11257SLL026	09/15/2011 09:10	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11258SLC026	09/16/2011 07:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11258SLA026	09/15/2011 18:15	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11264A34A	09/22/2011 01:24	Marie D John	21.78
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201125725542	09/14/2011 12:59	Larry E Bevins	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201125725542	09/14/2011 13:00	Larry E Bevins	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112640025A	09/24/2011 06:35	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112620004A	09/21/2011 20:06	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112600018A	09/22/2011 00:20	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112600018A	09/19/2011 10:30	Olivia Arosemena	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112620004A	09/19/2011 17:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112640025A	09/22/2011 11:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112570037A	09/15/2011 21:39	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620009A	09/20/2011 14:10	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112580032A	09/20/2011 09:48	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112640001A	09/22/2011 20:27	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112640001A	09/20/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112580032A	09/16/2011 06:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112570037A	09/15/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620009A	09/19/2011 09:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112575708003	09/23/2011 17:55	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112575708003	09/22/2011 14:58	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112575708003	09/23/2011 17:55	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112575708003	09/23/2011 17:55	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112575708003	09/22/2011 14:58	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112575708003	09/23/2011 17:55	Eric L Eby	1

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

Sample Description: **SL-342-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-342-SA5B-SB-4.0-5.0

LLI Sample # SW 6404517
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:50

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4214 SDG#: DE242-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	112575708003	09/22/2011 14:58	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112575708003	09/22/2011 14:58	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112575708003	09/23/2011 17:55	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112575708003	09/25/2011 07:59	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112575708003	09/22/2011 14:58	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112575708003	09/22/2011 14:58	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112575708003	09/22/2011 14:58	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112575708003	09/22/2011 14:58	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112571026001A	09/16/2011 10:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112571026001A	09/16/2011 10:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112571026001D	09/16/2011 10:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112571026001A	09/16/2011 10:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112571026001A	09/16/2011 10:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112571026001A	09/16/2011 10:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112571026001A	09/16/2011 10:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112571026001A	09/16/2011 10:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112571026001A	09/16/2011 10:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112571026001C	09/16/2011 10:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112571026001A	09/16/2011 10:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112571026001B	09/16/2011 10:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112571026001A	09/16/2011 10:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112571026001A	09/16/2011 10:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112571026001A	09/16/2011 10:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112571026001A	09/16/2011 10:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112575711002	09/16/2011 09:30	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112575708003	09/15/2011 23:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112571026001	09/15/2011 23:08	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112575711002	09/16/2011 02:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11259621202B	09/17/2011 17:08	Joseph E McKenzie	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11259621202B	09/17/2011 17:08	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11258621201B	09/16/2011 11:13	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11265243201A	09/28/2011 02:43	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11263102201A	09/20/2011 18:56	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11259621202B	09/16/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11258621201B	09/15/2011 06:15	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11263102201A	09/20/2011 16:00	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11265039402B	09/22/2011 10:50	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11265243201A	09/22/2011 10:55	Yolunder Y Bunch	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: **SL-342-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-342-SA5B-SB-4.0-5.0

LLI Sample # SW 6404517
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:50

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4214 SDG#: DE242-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11272162401A	09/29/2011 21:46	Scott W Freisher	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-342-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-342-SA5B-SB-9.0-10.0

LLI Sample # SW 6404518
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:55

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4215 SDG#: DE242-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.5	U	18.5	36.9		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

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

Sample Description: SL-342-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-342-SA5B-SB-9.0-10.0

LLI Sample # SW 6404518
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:55

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4215 SDG#: DE242-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: benzoic acid 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	1.0	J	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.7	J	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.1	J	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	2.4		0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	2.7		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	52		6.7	20		1
10138	Fluoranthene	206-44-0	4.3		0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	3.9		0.74	1.9		1
10138	Pyrene	129-00-0	3.4		0.74	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.44
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1

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

Sample Description: SL-342-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-342-SA5B-SB-9.0-10.0

LLI Sample # SW 6404518
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:55

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4215 SDG#: DE242-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	89	U	89	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	89	U	89	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	890	U	890	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	89	U	89	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	89	U	89	130	10000000	1
10132	PETN	78-11-5	890	U	890	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	4,700		670	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	1.1	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1

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

Sample Description: SL-342-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-342-SA5B-SB-9.0-10.0

LLI Sample # SW 6404518
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:55

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4215 SDG#: DE242-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	340	J	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	4.5		0.44	1.3		1
10199	EFH (C21-C30)	n.a.	11		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	27		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,400		6.66	22.0		1
07914	Boron	7440-42-8	5.58		0.396	5.50		1
01650	Calcium	7440-70-2	7,340		2.75	22.0		1
01654	Iron	7439-89-6	19,800		2.87	22.0		1
01656	Lithium	7439-93-2	20.7		0.68	2.2		1
01657	Magnesium	7439-95-4	4,400		0.484	11.0		1
06958	Manganese	7439-96-5	273		0.0396	0.550		1
10145	Phosphorus	7723-14-0	386		0.385	11.0		1
01662	Potassium	7440-09-7	3,020		12.4	55.0		1
01667	Sodium	7440-23-5	592		6.55	110		1
07968	Strontium	7440-24-6	27.9		0.0275	0.550		1
06969	Tin	7440-31-5	3.14	J	0.352	11.0		1
06970	Titanium	7440-32-6	1,320		0.0781	1.10		1
10146	Zirconium	7440-67-7	4.41	J	0.506	5.50		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.183	J	0.0798	0.216		2

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

Sample Description: SL-342-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-342-SA5B-SB-9.0-10.0

LLI Sample # SW 6404518
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:55

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4215 SDG#: DE242-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.42		0.0863	0.431		2
06126	Barium	7440-39-3	128		0.114	0.431		2
06127	Beryllium	7440-41-7	0.676		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.208		0.0475	0.108		2
06131	Chromium	7440-47-3	22.4		0.129	0.431		2
06132	Cobalt	7440-48-4	7.45		0.0216	0.108		2
06133	Copper	7440-50-8	14.5		0.0863	0.431		2
06135	Lead	7439-92-1	7.26		0.0110	0.216		2
06138	Molybdenum	7439-98-7	1.21		0.0539	0.108		2
06139	Nickel	7440-02-0	15.0		0.108	0.431		2
06141	Selenium	7782-49-2	0.199	J	0.0626	0.431		2
06142	Silver	7440-22-4	0.0535	J	0.0153	0.108		2
06145	Thallium	7440-28-0	0.313		0.0324	0.108		2
06148	Vanadium	7440-62-2	46.8		0.0237	0.108		2
06149	Zinc	7440-66-6	83.0		0.604	3.24		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0178	J	0.0077	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.45	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	9.16		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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

Sample Description: **SL-342-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-342-SA5B-SB-9.0-10.0

LLI Sample # SW 6404518
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:55

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4215 SDG#: DE242-15

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-342-SA5B-SB-9.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11257SLL026	09/20/2011 23:09	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11258SLA026	09/20/2011 02:29	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11258SLC026	09/23/2011 19:20	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11257SLL026	09/15/2011 09:10	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11258SLC026	09/16/2011 07:00	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11258SLA026	09/15/2011 18:15	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11264A34A	09/21/2011 22:59	Marie D John	21.44
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201125725542	09/14/2011 12:58	Larry E Bevins	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201125725542	09/14/2011 12:59	Larry E Bevins	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112640025A	09/24/2011 07:18	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112620004A	09/21/2011 20:16	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112600018A	09/22/2011 00:39	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112600018A	09/19/2011 10:30	Olivia Arosemena	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112620004A	09/19/2011 17:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112640025A	09/22/2011 11:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112570037A	09/15/2011 21:54	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620009A	09/20/2011 14:23	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112580032A	09/20/2011 10:33	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112640001A	09/22/2011 18:05	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112640001A	09/20/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112580032A	09/16/2011 06:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112570037A	09/15/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620009A	09/19/2011 09:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112575708003	09/23/2011 17:59	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112575708003	09/22/2011 15:02	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112575708003	09/23/2011 17:59	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112575708003	09/23/2011 17:59	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112575708003	09/22/2011 15:02	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112575708003	09/23/2011 17:59	Eric L Eby	1

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Sample Description: **SL-342-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-342-SA5B-SB-9.0-10.0

LLI Sample # SW 6404518
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:55

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4215 SDG#: DE242-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	112575708003	09/22/2011 15:02	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112575708003	09/22/2011 15:02	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112575708003	09/23/2011 17:59	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112575708003	09/25/2011 08:03	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112575708003	09/22/2011 15:02	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112575708003	09/22/2011 15:02	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112575708003	09/22/2011 15:02	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112575708003	09/22/2011 15:02	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112571026001A	09/16/2011 10:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112571026001A	09/16/2011 10:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112571026001D	09/16/2011 10:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112571026001A	09/16/2011 10:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112571026001A	09/16/2011 10:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112571026001A	09/16/2011 10:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112571026001A	09/16/2011 10:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112571026001A	09/16/2011 10:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112571026001A	09/16/2011 10:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112571026001C	09/16/2011 10:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112571026001A	09/16/2011 10:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112571026001B	09/16/2011 10:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112571026001A	09/16/2011 10:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112571026001A	09/16/2011 10:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112571026001A	09/16/2011 10:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112571026001A	09/16/2011 10:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112575711002	09/16/2011 09:31	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112575708003	09/15/2011 23:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112571026001	09/15/2011 23:08	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112575711002	09/16/2011 02:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11259621202B	09/17/2011 17:22	Joseph E McKenzie	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11259621202B	09/17/2011 17:22	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11258621201B	09/16/2011 11:36	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11265243201A	09/28/2011 02:57	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11263102201A	09/20/2011 18:57	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11259621202B	09/16/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11258621201B	09/15/2011 06:15	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11263102201A	09/20/2011 16:00	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11265039402B	09/22/2011 10:50	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11265243201A	09/22/2011 10:55	Yolunder Y Bunch	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-342-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-342-SA5B-SB-9.0-10.0

LLI Sample # SW 6404518
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:55

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4215 SDG#: DE242-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11272162401A	09/29/2011 21:46	Scott W Freisher	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-091311 Water**
SSFL Area IV Collocated Soil Sampling
TB-091311

LLI Sample # WW 6404519
LLI Group # 1266159
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 08:00

Submitted: 09/14/2011 09:05
Reported: 10/05/2011 14:49

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

E4216 SDG#: DE242-16TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11260B20A	09/20/2011	01:48	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11260B20A	09/20/2011	01:48	Laura M Krieger	1

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

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266159
Reported: 10/05/11 at 02:49 PM

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

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11257SLL026	Sample number(s): 6404514-6404518									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	106		70-130		
Batch number: 11258SLA026	Sample number(s): 6404504-6404518									
Aniline	170 U		170.	500	ug/kg	77		20-115		
Benzidine	1,200 U		1,200.	3,300	ug/kg	47		15-121		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	104		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	88		60-125		
Benzoic acid	170 U		170.	500	ug/kg	57*		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	92		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	95		73-114		
Butylbenzylphthalate	17	U	17.	170	ug/kg	98		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	100		79-112		
Carbazole	17	U	17.	170	ug/kg	98		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	98		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	50		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	96		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	95		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	97		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	95		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	96		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	95		74-115		
Chrysene	17	U	17.	170	ug/kg	90		76-113		
Dibenzofuran	17	U	17.	170	ug/kg	93		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	88		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	86		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	88		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	48		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	95		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	99		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	95		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	98		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	98		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	39*		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	21		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	101		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	99		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	102		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	95		75-117		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266159
Reported: 10/05/11 at 02:49 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluoranthene	17	U	17.	170	ug/kg	98		78-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	90		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	87		65-117		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	81		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	89		61-109		
Isophorone	17	U	17.	170	ug/kg	96		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	98		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	99		66-117		
Naphthalene	17	U	17.	170	ug/kg	92		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	99		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	95		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	72		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	96		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	92		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	80		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	91		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	99		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	116		62-137		
Pentachlorophenol	170	U	170.	500	ug/kg	55		51-117		
Phenanthrene	17	U	17.	170	ug/kg	97		77-113		
Phenol	17	U	17.	170	ug/kg	97		58-112		
Pyrene	17	U	17.	170	ug/kg	96		75-115		
Tetralin	170	U	170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	89		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	90		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	90		78-111		
Batch number: 11258SLC026	Sample number(s): 6404504-6404518									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	86		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	82		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	89		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	90		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	91		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	104		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	97		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	97		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	102		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	105		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	91		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	97		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	83		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	93		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	111		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	97		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	90		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	97		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	82		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	82		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	79		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	120		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	89		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	94		72-119		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266159
Reported: 10/05/11 at 02:49 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11260B20A	Sample number(s): 6404519									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	118	75-135	8	30
Batch number: 11264A34A	Sample number(s): 6404514-6404518									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	75		67-119		
Batch number: 112640025A	Sample number(s): 6404514-6404518									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	106		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	103		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	66	81	54-134	20	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	66	81	54-134	20	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	107		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	98		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	105		80-120		
HMX	100 U		100.	300	ug/kg	92		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	98		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	85		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	99		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	105		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	98		80-120		
PETN	800 U		800.	2,400	ug/kg	100		80-120		
RDX	50	U	50.	120	ug/kg	104		75-131		
Tetryl	61	U	61.	120	ug/kg	94		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	103		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	105		80-120		
Batch number: 112620004A	Sample number(s): 6404514-6404518									
20a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	108		80-126		
Batch number: 112580024A	Sample number(s): 6404504-6404513									
2,4-D	1.2	U	1.2	3.6	ug/kg	97		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	60		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	88		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	148*		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	11		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	119		62-170		
MCPA	76	U	76.	250	ug/kg	95		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	69		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	95		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	78		68-114		
Batch number: 112600024A	Sample number(s): 6404504,6404513,6404515									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	105		85-115		
Batch number: 112600018A	Sample number(s): 6404504-6404518									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	76	77	36-106	1	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	97		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266159
Reported: 10/05/11 at 02:49 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	100		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112620013A	Sample number(s): 6404504-6404513									
Aldrin	0.066	U	0.066	0.17	ug/kg	97		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	94		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	116		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	100		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	133		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	109		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	107		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	138		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	110		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	88		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	100		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	125		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	112		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	105		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	114		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	97		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	115		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	115		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 112570037A	Sample number(s): 6404507,6404509-6404511,6404514-6404518									
Ethanol	100 U		100.	500	ug/kg	92		71-129		
Isopropanol	100 U		100.	500	ug/kg	94		75-125		
Methanol	100 U		100.	500	ug/kg	97		68-129		
Batch number: 112600025A	Sample number(s): 6404512									
Ethanol	100 U		100.	500	ug/kg	84		71-129		
Isopropanol	100 U		100.	500	ug/kg	87		75-125		
Methanol	100 U		100.	500	ug/kg	91		68-129		
Batch number: 112620009A	Sample number(s): 6404507,6404509-6404512,6404514-6404518									
Diethylene glycol	5.0	U	5.0	10	mg/kg	80		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	85		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	74		67-131		
Batch number: 112580032A	Sample number(s): 6404507,6404509-6404512,6404514-6404518									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	89		69-109		
Batch number: 112640001A	Sample number(s): 6404507,6404509-6404512,6404514-6404518									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	87		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	90		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	95		64-134		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266159
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	88		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	77		49-107		
Batch number: 112571026001A	Sample number(s): 6404504-6404518									
Antimony	0.0740	U	0.0740	0.200	mg/kg	115		10-224		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	104		78-122		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	104		80-120		
Cadmium	0.0440	U	0.0440	0.100	mg/kg	102		81-119		
Chromium	0.120	U	0.120	0.400	mg/kg	112		77-123		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	102		80-119		
Copper	0.0800	U	0.0800	0.400	mg/kg	102		78-122		
Lead	0.0102	U	0.0102	0.200	mg/kg	103		77-123		
Nickel	0.100	U	0.100	0.400	mg/kg	107		80-120		
Silver	0.0142	U	0.0142	0.100	mg/kg	103		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	104		75-124		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	121		76-124		
Zinc	0.560	U	0.560	3.00	mg/kg	104		79-121		
Batch number: 112571026001B	Sample number(s): 6404504-6404518									
Selenium	0.0580	U	0.0580	0.400	mg/kg	112		77-123		
Batch number: 112571026001C	Sample number(s): 6404504-6404518									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	108		76-123		
Batch number: 112571026001D	Sample number(s): 6404504-6404518									
Barium	0.106	U	0.106	0.400	mg/kg	105		80-120		
Batch number: 112575708003	Sample number(s): 6404504-6404518									
Aluminum	6.05	U	6.05	20.0	mg/kg	149		42-158		
Boron	0.683	J	0.360	5.00	mg/kg	105		66-134		
Calcium	11.1	J	2.50	20.0	mg/kg	106		79-121		
Iron	2.61	U	2.61	20.0	mg/kg	141		51-149		
Lithium	0.62	U	0.62	2.0	mg/kg	103		80-120		
Magnesium	0.440	U	0.440	10.0	mg/kg	126		64-136		
Manganese	0.0780	J	0.0360	0.500	mg/kg	99		78-122		
Phosphorus	0.876	J	0.350	10.0	mg/kg	106		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	120		69-131		
Sodium	5.95	U	5.95	100	mg/kg	114		71-129		
Strontium	0.0590	J	0.0250	0.500	mg/kg	101		81-119		
Tin	1.70	J	0.320	10.0	mg/kg	97		74-126		
Titanium	0.0710	U	0.0710	1.00	mg/kg	109		80-120		
Zirconium	0.460	U	0.460	5.00	mg/kg	104		80-120		
Batch number: 112575711002	Sample number(s): 6404504-6404518									
Mercury	0.0072	J	0.0066	0.0944	mg/kg	106		72-128		
Batch number: 11258621201A	Sample number(s): 6404504-6404508									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	104		85-115		
Batch number: 11258621201B	Sample number(s): 6404509-6404518									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	104		85-115		
Batch number: 11259621202A	Sample number(s): 6404505-6404514									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	96		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	101		90-110		
Batch number: 11259621202B	Sample number(s): 6404504,6404515-6404518									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	96		90-110		

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Quality Control Summary

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	101		90-110		
Batch number: 11263102201A	Sample number(s): 6404514-6404518									
16a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	102		80-120		
Batch number: 11265243201A	Sample number(s): 6404504-6404518									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	83		80-120		
Batch number: 11265039402A	Sample number(s): 6404504-6404512									
17a pH by 9045C						100		95-105		
Batch number: 11265039402B	Sample number(s): 6404513-6404518									
17a pH by 9045C						100		95-105		
Batch number: 11259162402B	Sample number(s): 6404504-6404513									
Moisture Content by 160.3						100		80-120		
Batch number: 11272162401A	Sample number(s): 6404515-6404518									
Moisture Content by 160.3						100		80-120		
Batch number: 11273162401A	Sample number(s): 6404514									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11257SLL026	Sample number(s): 6404514-6404518 UNSPK: P397884								
N-Nitrosodimethylamine	97	105	70-130	9	30				
Batch number: 11258SLA026	Sample number(s): 6404504-6404518 UNSPK: P404351								
Aniline	62	55	18-116	13	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(b)fluoranthene	94	101	59-125	7	30				
Benzo(g,h,i)perylene	94	96	59-127	2	30				
Benzoic acid	29	28	10-173	6	30				
Benzyl alcohol	90	94	67-115	3	30				
4-Bromophenyl-phenylether	93	98	67-129	5	30				
Butylbenzylphthalate	96	101	73-134	5	30				
Di-n-butylphthalate	97	102	67-123	4	30				
Carbazole	90	95	64-120	6	30				
4-Chloro-3-methylphenol	91	93	62-122	2	30				
4-Chloroaniline	40	41	13-107	4	30				
bis(2-Chloroethoxy)methane	89	91	75-104	2	30				
bis(2-Chloroethyl)ether	92	96	60-116	5	30				
bis(2-Chloroisopropyl)ether	93	93	55-142	0	30				
2-Chloronaphthalene	88	92	50-141	5	30				
2-Chlorophenol	94	97	73-121	3	30				
4-Chlorophenyl-phenylether	91	92	80-109	1	30				
Chrysene	85	88	62-128	4	30				
Dibenzofuran	89	90	71-112	1	30				

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Reported: 10/05/11 at 02:49 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2-Dichlorobenzene	86	86	66-108	0	30				
1,3-Dichlorobenzene	85	85	63-109	0	30				
1,4-Dichlorobenzene	87	87	58-108	1	30				
3,3'-Dichlorobenzidine	44	51	28-109	14	30				
2,4-Dichlorophenol	91	92	66-123	1	30				
Diethylphthalate	93	96	66-118	2	30				
2,4-Dimethylphenol	90	92	68-118	3	30				
3,5-Dimethylphenol	92	94	71-127	2	30				
Dimethylphthalate	92	94	64-118	2	30				
4,6-Dinitro-2-methylphenol	29	40	11-126	31*	30				
2,4-Dinitrophenol	13*	20	20-143	43*	30				
2,4-Dinitrotoluene	92	95	56-129	3	30				
2,6-Dinitrotoluene	94	95	69-123	1	30				
1,2-Diphenylhydrazine	97	101	71-129	4	30				
bis(2-Ethylhexyl)phthalate	93	97	63-122	4	30				
Fluoranthene	88	93	73-112	6	30				
Hexachlorobenzene	89	94	77-114	5	30				
Hexachlorobutadiene	87	89	62-120	2	30				
Hexachlorocyclopentadiene	53	61	10-153	14	30				
Hexachloroethane	86	85	57-109	1	30				
Isophorone	91	91	73-102	0	30				
2-Methylphenol	95	97	75-111	2	30				
4-Methylphenol	94	95	59-123	1	30				
Naphthalene	90	92	72-116	2	30				
2-Nitroaniline	92	94	67-125	2	30				
3-Nitroaniline	88	89	59-122	2	30				
4-Nitroaniline	67	70	41-109	5	30				
Nitrobenzene	92	92	57-125	1	30				
2-Nitrophenol	88	90	56-127	2	30				
4-Nitrophenol	73	73	37-129	1	30				
N-Nitroso-di-n-propylamine	88	89	60-116	1	30				
N-Nitrosodiphenylamine	95	99	71-122	4	30				
Di-n-octylphthalate	109	115	56-126	5	30				
Pentachlorophenol	58	70	28-127	18	30				
Phenanthrene	90	95	65-125	5	30				
Phenol	93	94	58-126	1	30				
Pyrene	92	96	74-126	4	30				
1,2,4-Trichlorobenzene	88	89	72-115	1	30				
2,4,5-Trichlorophenol	86	88	58-129	2	30				
2,4,6-Trichlorophenol	87	91	56-134	4	30				
Batch number: 11258SLC026	Sample number(s): 6404504-6404518 UNSPK: P404352								
Acenaphthene	84	83	63-105	1	30				
Acenaphthylene	80	82	67-114	2	30				
Anthracene	88	89	73-115	2	30				
Benzo(a)anthracene	90	89	59-128	1	30				
Benzo(a)pyrene	88	88	58-142	0	30				
Benzo(b)fluoranthene	97	97	54-163	1	30				
Benzo(g,h,i)perylene	92	95	33-141	4	30				
Benzo(k)fluoranthene	86	83	57-153	4	30				
Butylbenzylphthalate	103	108	57-173	5	30				
Di-n-butylphthalate	106	103	65-148	2	30				
Chrysene	91	89	67-123	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266159
Reported: 10/05/11 at 02:49 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Dibenz(a,h)anthracene	94	96	22-133	2	30				
Diethylphthalate	80	78	70-136	3	30				
Dimethylphthalate	88	87	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	123	122	39-167	1	30				
Fluoranthene	101	97	51-149	5	30				
Fluorene	88	88	66-122	0	30				
Indeno(1,2,3-cd)pyrene	93	95	21-143	2	30				
1-Methylnaphthalene	79	78	72-123	1	30				
2-Methylnaphthalene	77	78	64-103	1	30				
Naphthalene	79	77	61-102	3	30				
N-Nitrosodimethylamine	79	75	48-113	5	30				
Di-n-octylphthalate	121	113	40-192	7	30				
Phenanthrene	86	87	62-122	2	30				
Pyrene	86	89	51-131	3	30				
Batch number: 11264A34A	Sample number(s): 6404514-6404518 UNSPK: 6404514								
9a TPH by EPA 8015B Gas C5-C12	118	125*	39-118	6	30				
Batch number: 112640025A	Sample number(s): 6404514-6404518 UNSPK: 6404514								
4-Amino-2,6-Dinitrotoluene	106	105	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	103	101	80-137	2	50				
1,3-Dinitrobenzene	106	105	38-166	1	50				
2,4-Dinitrotoluene	98	96	80-131	2	50				
2,6-Dinitrotoluene	102	103	80-127	1	50				
HMX	91	92	63-128	0	50				
Nitrobenzene	99	98	80-125	1	50				
Nitroglycerin	96	95	80-120	1	50				
2-Nitrotoluene	96	97	80-122	0	50				
3-Nitrotoluene	102	102	72-119	0	50				
4-Nitrotoluene	95	96	80-125	0	50				
PETN	104	102	80-121	1	50				
RDX	94	93	75-129	2	50				
Tetryl	80	82	55-174	3	50				
1,3,5-Trinitrobenzene	93	93	82-126	1	50				
2,4,6-Trinitrotoluene	103	103	82-130	0	50				
Batch number: 112620004A	Sample number(s): 6404514-6404518 UNSPK: P404354								
20a Formaldehyde 8315A	111	113	80-120	2	50				
Batch number: 112580024A	Sample number(s): 6404504-6404513 UNSPK: 6404504								
2,4-D	52	83	17-180	46*	35				
Dalapon	85	68	10-125	23	50				
2,4-DB	67	75	10-201	11	50				
Dicamba	95	73	10-190	26	50				
Dinoseb	6*	6*	10-46	5	35				
2,4-DP (Dichlorprop)	109	111	33-178	1	50				
MCPA	15	31	10-213	69*	50				
MCPP (Mecoprop)	23	22	10-184	3	50				
2,4,5-T	375*	24	10-156	176*	35				
2,4,5-TP	14*	72	24-141	133*	35				
Batch number: 112600024A	Sample number(s): 6404504,6404513,6404515 UNSPK: P404355								
6a Perchlorate EPA 6850	106	104	80-120	1	20				

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 112600018A	Sample number(s): 6404504-6404518 UNSPK: P404351								
PCB-1016	90	96	29-146	6	50				
PCB-1260	90	91	39-149	2	50				
Batch number: 112620013A	Sample number(s): 6404504-6404513 UNSPK: 6404504								
Aldrin	79	61	16-126	26	50				
Alpha BHC	74	59	10-129	22	50				
Beta BHC	81	81	14-147	0	50				
Gamma BHC - Lindane	79	74	10-140	8	50				
p,p-DDD	112	113	16-163	1	50				
p,p-DDE	129	451*	18-161	49	50				
p,p-DDT	-19 (2)	238 (2)	10-176	16	50				
Delta BHC	97	91	23-140	7	50				
Dieldrin	100	0*	19-154	200*	50				
Endosulfan I	79	0*	16-137	200*	50				
Endosulfan II	129	363*	28-154	95*	50				
Endosulfan Sulfate	112	0*	21-160	200*	50				
Endrin	0*	0*	11-149	0	50				
Endrin Aldehyde	130	136	10-148	5	35				
Endrin Ketone	103	79	22-165	27	50				
Heptachlor	97	88	13-126	10	50				
Heptachlor Epoxide	97	188*	13-157	64*	50				
Methoxychlor	110	107	32-147	3	50				
Batch number: 112570037A	Sample number(s): 6404507,6404509-6404511,6404514-6404518 UNSPK: 6404507								
Ethanol	101	97	48-130	5	20				
Isopropanol	106	100	12-149	6	20				
Methanol	112	108	43-138	4	20				
Batch number: 112600025A	Sample number(s): 6404512 UNSPK: P408584								
Ethanol	90	85	48-130	5	20				
Isopropanol	96	92	12-149	4	20				
Methanol	89	82	43-138	7	20				
Batch number: 112620009A	Sample number(s): 6404507,6404509-6404512,6404514-6404518 UNSPK: P403416								
Diethylene glycol	89	82	59-109	8	20				
Ethylene glycol	93	85	63-107	9	20				
Propylene glycol	81	75	63-107	8	20				
Batch number: 112580032A	Sample number(s): 6404507,6404509-6404512,6404514-6404518 UNSPK: P401595								
m-Terphenyl	98	93	75-125	4	20				
o-Terphenyl	99	95	75-125	4	20				
p-Terphenyl	93	89	75-125	4	20				
Batch number: 112640001A	Sample number(s): 6404507,6404509-6404512,6404514-6404518 UNSPK: 6404507								
EFH (C12-C14)	0*	0*	49-123	0	20				
EFH (C15-C20)	135*	262*	49-123	24*	20				
EFH (C21-C30)	861 (2)	1603 (2)	49-123	16	20				
EFH (C30 - C40)	1645 (2)	3199 (2)	49-123	13	20				
EFH (C8-C11)	0*	0*	49-123	0	20				

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 112571026001A	Sample number(s): 6404504-6404518 UNSPK: P404351 BKG: P404351								
Antimony	66*	70*	75-125	5	20	0.240	0.212	13 (1)	20
Arsenic	30 (2)	115 (2)	75-125	14	20	10.5	9.58	9	20
Beryllium	109	135*	75-125	12	20	0.802	0.757	6	20
Cadmium	134*	149*	75-125	10	20	0.152	0.165	8 (1)	20
Chromium	98	131*	75-125	10	20	22.6	21.9	3	20
Cobalt	128*	142*	75-125	10	20	7.45	7.35	1	20
Copper	122	144*	75-125	9	20	9.75	9.67	1	20
Lead	114	153*	75-125	11	20	6.79	6.65	2	20
Nickel	118	149*	75-125	11	20	14.9	14.6	2	20
Silver	131*	144*	75-125	10	20	0.0592 J	0.0578 J	2 (1)	20
Thallium	103	136*	75-125	15	20	0.424	0.389	9 (1)	20
Vanadium	73 (2)	134 (2)	75-125	11	20	44.8	43.4	3	20
Zinc	41 (2)	134 (2)	75-125	11	20	74.0	70.4	5	20
Batch number: 112571026001B	Sample number(s): 6404504-6404518 UNSPK: P404351 BKG: P404351								
Selenium	125	145*	75-125	13	20	0.262 J	0.254 J	3 (1)	20
Batch number: 112571026001C	Sample number(s): 6404504-6404518 UNSPK: P404351 BKG: P404351								
Molybdenum	135*	147*	75-125	8	20	0.915	0.847	8	20
Batch number: 112571026001D	Sample number(s): 6404504-6404518 UNSPK: P404351 BKG: P404351								
Barium	34 (2)	178 (2)	75-125	12	20	107	102	6	20
Batch number: 112575708003	Sample number(s): 6404504-6404518 UNSPK: P404351 BKG: P404351								
Aluminum	1087 (2)	846 (2)	75-125	3	20	13,300	13,200	1	20
Boron	96	95	84-115	0	20	3.42 J	2.81 J	19 (1)	20
Calcium	152 (2)	141 (2)	75-125	1	20	2,450	2,440	0	20
Iron	726 (2)	-208 (2)	75-125	5	20	18,800	18,800	0	20
Lithium	97	96	82-114	1	20	28.0	28.8	3	20
Magnesium	229 (2)	73 (2)	75-125	7	20	4,060	4,060	0	20
Manganese	106 (2)	74 (2)	75-125	5	20	291	292	0	20
Phosphorus	110	113	75-125	1	20	370	377	2	20
Potassium	120	91	75-125	7	20	2,930	2,950	1	20
Sodium	95	95	75-125	0	20	69.1 J	70.4 J	2 (1)	20
Strontium	97	96	75-115	1	20	15.8	15.6	1	20
Tin	92	94	80-110	2	20	2.91 J	2.90 J	0 (1)	20
Titanium	266 (2)	245 (2)	75-125	2	20	1,140	1,130	1	20
Zirconium	82	77	75-125	7	20	2.19 J	2.31 J	5 (1)	20
Batch number: 112575711002	Sample number(s): 6404504-6404518 UNSPK: P404351 BKG: P404351								
Mercury	96	101	65-135	5	20	0.0166 J	0.0160 J	4 (1)	20
Batch number: 11258621201A	Sample number(s): 6404504-6404508 UNSPK: P404351 BKG: P404351								
7a Perchlorate EPA 314.0	109		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11258621201B	Sample number(s): 6404509-6404518 UNSPK: 6404509 BKG: 6404509								
7a Perchlorate EPA 314.0	95		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11259621202A	Sample number(s): 6404505-6404514 UNSPK: 6404505 BKG: 6404505								

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
11a Anions by 300.0 - Fluoride	82		80-120			0.91	J	1.0		14 (1)	20
11a Anions by 300.0 - Nitrate	120		80-120			10.7		10.4		2	20
Batch number: 11259621202B	Sample number(s): 6404504,6404515-6404518 UNSPK: 6404515 BKG: 6404515										
11a Anions by 300.0 - Fluoride	100		80-120			0.80	U	0.80	U	0 (1)	20
11a Anions by 300.0 - Nitrate	96		80-120			1.2	J	1.1	J	9 (1)	20
Batch number: 11263102201A	Sample number(s): 6404514-6404518 UNSPK: 6404514 BKG: 6404514										
16a Cyanide by 9012B	99		75-125			0.18	U	0.18	U	0 (1)	20
Batch number: 11265243201A	Sample number(s): 6404504-6404518 UNSPK: P404351 BKG: P404351										
3a Cr VI by EPA 7199	85		75-125			0.77	J	0.54	J	36* (1)	20
Batch number: 11265039402A	Sample number(s): 6404504-6404512 BKG: 6404504										
17a pH by 9045C						6.75		6.80		1	3
Batch number: 11265039402B	Sample number(s): 6404513-6404518 BKG: 6404513										
17a pH by 9045C						8.48		8.56		1	3
Batch number: 11259162402B	Sample number(s): 6404504-6404513 BKG: P404352										
Moisture Content by 160.3						3.0		2.9		2	20
Batch number: 11272162401A	Sample number(s): 6404515-6404518 BKG: P404514										
Moisture Content by 160.3						6.2		4.9		24*	20
Batch number: 11273162401A	Sample number(s): 6404514 BKG: 6404514										
Moisture Content by 160.3						5.0		5.5		11	20

Surrogate Quality Control

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

Analysis Name: 21a NDMA by 1625C
Batch number: 11257SLL026

	N-Nitrosodimethylamine-d6
6404514	88
6404515	79
6404516	76
6404517	81
6404518	139
Blank	75
LCS	74
MS	68
MSD	80
Limits:	50-150

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266159
Reported: 10/05/11 at 02:49 PM

Surrogate Quality Control

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11258SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6404504	96	95	78	86	85	81
6404505	88	91	74	86	90	80
6404506	87	90	65	85	87	73
6404507	91	91	72	87	91	82
6404508	87	89	72	85	86	83
6404509	93	93	74	88	92	82
6404510	87	87	68	82	85	79
6404511	92	91	71	87	86	81
6404512	92	91	81	85	85	78
6404513	77	79	64	75	78	69
6404514	85	87	71	84	85	80
6404515	85	86	70	82	84	77
6404516	87	88	61	85	86	78
6404517	87	88	71	84	87	78
6404518	85	85	74	81	84	80
Blank	95	95	81	91	88	81
LCS	91	92	81	89	87	80
MS	87	88	75	83	83	77
MSD	91	91	79	85	85	82
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11258SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6404504	90	84	84
6404505	91	81	157*
6404506	86	85	84
6404507	87	81	85
6404508	84	81	81
6404509	94	86	102
6404510	81	80	79
6404511	88	84	94
6404512	79	79	80
6404513	82	79	95
6404514	86	81	96
6404515	81	77	94
6404516	87	82	97
6404517	82	80	92
6404518	81	79	87
Blank	80	81	91
LCS	86	83	90
MS	88	80	83
MSD	87	83	85
Limits:	40-130	45-130	45-135

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11260B20A

	Trifluorotoluene-F
6404519	97

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266159
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Surrogate Quality Control

Blank	98
LCS	125
LCSD	131
Limits:	63-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11264A34A

	Trifluorotoluene-F
6404514	102
6404515	94
6404516	92
6404517	90
6404518	87
Blank	95
LCS	96
MS	128*
MSD	135*
Limits:	61-122

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 112580024A

	2,4-Dichlorophenylacetic acid
6404504	92
6404505	114
6404506	133
6404507	73
6404508	163*
6404509	98
6404510	143
6404511	60
6404512	90
6404513	78
Blank	90
LCS	94
MS	84
MSD	89
Limits:	36-156

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112600018A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6404504	107	151*
6404505	85	91
6404506	119	96
6404507	98	80
6404508	101	83
6404509	92	84
6404510	94	79
6404511	101	93
6404512	91	94

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Surrogate Quality Control

6404513	90	145*
6404514	94	92
6404515	91	76
6404516	102	86
6404517	133	103
6404518	92	93
Blank	136	129*
LCS	101	96
LCSD	103	101
MS	96	90
MSD	97	90
Limits:	53-139	45-120

Analysis Name: 20a Formaldehyde 8315A
Batch number: 112620004A

	Butyraldehyde
6404514	85
6404515	90
6404516	89
6404517	98
6404518	99
Blank	102
LCS	87
MS	100
MSD	102
Limits:	64-126

Analysis Name: 12a Pesticides by 8081A
Batch number: 112620013A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6404504	92	96
6404505	67	390*
6404506	69	151*
6404507	71	93
6404508	88	71
6404509	77	100
6404510	81	111
6404511	83	71
6404512	89	113
6404513	87	115
Blank	107	124*
LCS	99	124*
MS	78	103
MSD	72	102
Limits:	50-130	20-120

Analysis Name: 15a Energetics by 8330A
Batch number: 112640025A

	2-Nitro-m-xylene
6404514	114
6404515	112

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266159
Reported: 10/05/11 at 02:49 PM

Surrogate Quality Control

6404516	114
6404517	113
6404518	114
Blank	114
LCS	115
LCSD	134
MS	108
MSD	109

Limits: 80-146

Analysis Name: 18a Alcohols by 8015B
Batch number: 112570037A
Acetone

6404507	99
6404509	113
6404510	95
6404511	121
6404514	106
6404515	97
6404516	95
6404517	93
6404518	94
Blank	103
LCS	101
MS	93
MSD	122

Limits: 42-138

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112580032A
n-Triacontane-d62

6404507	91
6404509	82
6404510	74
6404511	82
6404512	75
6404514	68
6404515	63
6404516	62
6404517	62
6404518	65
Blank	72
LCS	71
MS	74
MSD	70

Limits: 19-152

Analysis Name: 18a Alcohols by 8015B
Batch number: 112600025A
Acetone

6404512	138

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266159
Reported: 10/05/11 at 02:49 PM

Surrogate Quality Control

Blank	107
LCS	101
MS	121
MSD	123
Limits:	42-138

Analysis Name: 19a Glycols by 8015B
Batch number: 112620009A

	Tetramethylene glycol
6404507	74
6404509	77
6404510	77
6404511	72
6404512	87
6404514	87
6404515	83
6404516	79
6404517	83
6404518	87
Blank	84
LCS	88
MS	78
MSD	77
Limits:	29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112640001A

	Chlorobenzene	Orthoterphenyl
6404507	67	81
6404509	43	52
6404510	81	103
6404511	15*	18*
6404512	76	96
6404514	47	90
6404515	76	93
6404516	83	95
6404517	68	84
6404518	66	89
Blank	54	73
LCS	79	94
MS	83	100
MSD	93	110
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1266159 Sample# 6404504-19

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-030-SA7-SS-0.0-0.5	09.13.11	1455	SOIL	NONE	1-SS Sleeve			X	X																		
SL-030-SA7-SS-0.0-0.5	09.13.11	1455	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	X	X											
SL-034-SA7-SS-0.0-0.5	09.13.11	1215	SOIL	NONE	1-SS Sleeve			X	X																		
SL-034-SA7-SS-0.0-0.5	09.13.11	1215	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											
SL-035-SA7-SS-0.0-0.5	09.13.11	1405	SOIL	NONE	1-SS Sleeve			X	X																		
SL-035-SA7-SS-0.0-0.5	09.13.11	1405	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											
SL-037-SA7-SS-0.0-0.5	09.13.11	1015	SOIL	NONE	1-SS Sleeve			X	X																		
SL-037-SA7-SS-0.0-0.5	09.13.11	1015	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X						X	X	X		
SL-040-SA7-SS-0.0-0.5	09.13.11	0846	SOIL	NONE	1-SS Sleeve			X	X																		
SL-040-SA7-SS-0.0-0.5	09.13.11	0846	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											
SL-041-SA7-SS-0.0-0.5	09.13.11	0909	SOIL	NONE	1-SS Sleeve			X	X																		
SL-041-SA7-SS-0.0-0.5	09.13.11	0909	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X						X	X	X		
SL-070-SA7-SS-0.0-0.5	09.13.11	1035	SOIL	NONE	1-SS Sleeve			X	X																		
SL-070-SA7-SS-0.0-0.5	09.13.11	1035	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X						X	X	X		
SL-071-SA7-SS-0.0-0.5	09.13.11	0926	SOIL	NONE	1-SS Sleeve			X	X																		
SL-071-SA7-SS-0.0-0.5	09.13.11	0926	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X						X	X	X		
SL-073-SA7-SS-0.0-0.5	09.13.11	1430	SOIL	NONE	1-SS Sleeve			X	X																		
SL-073-SA7-SS-0.0-0.5	09.13.11	1430	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X						X	X	X		
SL-146-SA7-SS-0.0-0.5	09.13.11	1140	SOIL	NONE	1-SS Sleeve			X	X																		
SL-146-SA7-SS-0.0-0.5	09.13.11	1140	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	X	X											

Relinquished by: (*Signature*) — Date/Time: 09/13/2011 / 1600 — Received for Laboratory by: (*Signature*) LLI 9/14/11 0705

Received by: (*Signature*) — Date/Time — Airbill No(s): 8754 3341 6573, 6584 2595

Laboratory: Lancaster Laboratories, Inc.

acct# 13013 Qp# 1266159 Sample# 6404504-19

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 8 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-338-SA5B-SB-7.5	09.13.11	0901	SOIL	NONE	2- Encores											X											
SL-338-SA5B-SB-7.0-8.0	09.13.11	0900	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X		
SL-341-SA5B-SB-4.5	09.13.11	1144	SOIL	NONE	5- Encores											X											extra encores collected
SL-341-SA5B-SB-4.0-5.0	09.13.11	1143	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X		
SL-341-SA5B-SB-9.5	09.13.11	1148	SOIL	NONE	2- Encores											X											
SL-341-SA5B-SB-9.0-10.0	09.13.11	1147	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X		
SL-342-SA5B-SB-4.5	09.13.11	1451	SOIL	NONE	2- Encores											X											
SL-342-SA5B-SB-4.0-5.0	09.13.11	1450	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X		
SL-342-SA5B-SB-9.5	09.13.11	1456	SOIL	NONE	2- Encores											X											
SL-342-SA5B-SB-9.0-10.0	09.13.11	1455	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X		
TB-091311	09.13.11	0800	WATER	NONE	2-10mL vials											X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	09/13/2011 / 1600	Mary Beth LI 9/14/11 0905	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No(s)	
		8754 3341 6573, 6584	

Nicole Maljovec

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Wednesday, September 14, 2011 1:40 PM
To: Nicole Maljovec
Subject: RE: SSFL COC 9/13/11- Perchlorate on SL-341 @4.0-5.0

yes, please include run SL-341 for perchlorate! thank you!

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Wednesday, September 14, 2011 10:33 AM
To: Hartman, Pamela
Cc: Tamara J. Helsel
Subject: FW: SSFL COC 9/13/11- Perchlorate on SL-341 @4.0-5.0

Hi Pam,
Perchlorate confirmation is checked off for SL-341-SA5B-SB-4.0-5.0 on this COC, but it isn't on the COC in the cooler. Should we enter the confirmation?

Thanks!
Nicole

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Tuesday, September 13, 2011 7:09 PM
To: Bloisa, Peggy; Burgesser, Todd; 'Laura Rainey'; Nicole Maljovec; SA Env Entry; Zakowski, Cherie
Subject: SSFL COC 9/13/11

Today we returned to SA5B for further delineation of the leach pond area west of Bldg 4010 and started collecting surface samples in SA7.
See the attached COC for today.

Thanks,

Pam

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Nicole Maljovec

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Thursday, September 15, 2011 9:33 AM
To: Nicole Maljovec; Bloisa, Peggy
Subject: RE: SSFL COC 9/14/11

Yes, sorry for the error!

Thanks,

Pam

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Thursday, September 15, 2011 6:17 AM
To: Hartman, Pamela; Bloisa, Peggy
Subject: RE: SSFL COC 9/14/11

Good morning all,
Can you update the Tetralin comment on the COC? On the last call it was decided to continue analyzing for Tetralin in SA7.

If anything has changed since the call, please let me know.

Thanks!
Nicole

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Wednesday, September 14, 2011 7:28 PM
To: Bloisa, Peggy; Burgesser, Todd; 'Laura Rainey'; Nicole Maljovec; SA Env Entry; Zakowski, Cherie
Subject: SSFL COC 9/14/11

Subsurface sampling in SA5B near Bldg 4010 was wrapped up this morning.
Subsurface sampling began in SA7 this afternoon and surface sampling continued in SA7.
COC for 9/14/11 is attached.

Thanks,

Pam

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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

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

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

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

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

Lancaster Laboratories

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

Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

September 27, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/14/2011
Group Number: 1266161
SDG: DX133
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-030-SA7-SS-0.0-0.5 Soil	6404530
SL-034-SA7-SS-0.0-0.5 Soil	6404531
SL-035-SA7-SS-0.0-0.5 Soil	6404532
SL-037-SA7-SS-0.0-0.5 Soil	6404533
SL-040-SA7-SS-0.0-0.5 Soil	6404534
SL-041-SA7-SS-0.0-0.5 Soil	6404535
SL-070-SA7-SS-0.0-0.5 Soil	6404536
SL-071-SA7-SS-0.0-0.5 Soil	6404537
SL-073-SA7-SS-0.0-0.5 Soil	6404538

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

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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

Analysis Report

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

Respectfully Submitted,

Dorothy M. Love

Dorothy M. Love
Group Leader

Lancaster Laboratories

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

Analysis Report

Sample Description: **SL-030-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-030-SA7-SS-0.0-0.5

LLI Sample # SW 6404530
LLI Group # 1266161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:55

Submitted: 09/14/2011 09:05
Reported: 09/27/2011 18:11

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

X3312 SDG#: DX133-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.52	0.50	0.50	1

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

Sample Description: **SL-030-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-030-SA7-SS-0.0-0.5

LLI Sample # SW 6404530
LLI Group # 1266161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:55

Submitted: 09/14/2011 09:05
Reported: 09/27/2011 18:11

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

X3312 SDG#: DX133-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0831	U	0.0831	1.00	1
11031	12378-PeCDD	40321-76-4	0.319	J	0.0798	5.02	1
11031	123478-HxCDD	39227-28-6	1.01	JB	0.113	5.02	1
11031	123678-HxCDD	57653-85-7	3.08	J	0.110	5.02	1
11031	123789-HxCDD	19408-74-3	1.80	JB	0.0987	5.02	1
11031	1234678-HpCDD	35822-46-9	102	B	0.169	5.02	1
11031	OCDD	3268-87-9	1,170	B	0.199	10.0	1
11031	2378-TCDF	51207-31-9	0.386	JQ	0.123	1.00	1
11031	12378-PeCDF	57117-41-6	0.494	J	0.0715	5.02	1
11031	23478-PeCDF	57117-31-4	1.05	JB	0.0658	5.02	1
11031	123478-HxCDF	70648-26-9	1.14	J	0.0710	5.02	1
11031	123678-HxCDF	57117-44-9	0.604	J	0.0682	5.02	1
11031	123789-HxCDF	72918-21-9	0.346	J	0.0705	5.02	1
11031	234678-HxCDF	60851-34-5	0.600	JB	0.0606	5.02	1
11031	1234678-HpCDF	67562-39-4	7.01	B	0.0678	5.02	1
11031	1234789-HpCDF	55673-89-7	0.452	JB	0.0802	5.02	1
11031	OCDF	39001-02-0	16.2	B	0.0698	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	108	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	96	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Sample Description: **SL-030-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-030-SA7-SS-0.0-0.5

LLI Sample # SW 6404530
LLI Group # 1266161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:55

Submitted: 09/14/2011 09:05
Reported: 09/27/2011 18:11

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

X3312 SDG#: DX133-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-030-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-030-SA7-SS-0.0-0.5

LLI Sample # SW 6404530
LLI Group # 1266161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:55

Submitted: 09/14/2011 09:05
Reported: 09/27/2011 18:11

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

X3312 SDG#: DX133-12

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11263001	09/22/2011 20:21	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11263001	09/20/2011 11:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11259162402B	09/16/2011 23:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-034-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA7-SS-0.0-0.5

LLI Sample # SW 6404531
LLI Group # 1266161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 12:15

Submitted: 09/14/2011 09:05
Reported: 09/27/2011 18:11

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

X3313 SDG#: DX133-13

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

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

Sample Description: **SL-034-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA7-SS-0.0-0.5

LLI Sample # SW 6404531
LLI Group # 1266161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 12:15

Submitted: 09/14/2011 09:05
Reported: 09/27/2011 18:11

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

X3313 SDG#: DX133-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.142	J	0.0703	0.994	1
11031	12378-PeCDD	40321-76-4	0.775	J	0.0844	4.97	1
11031	123478-HxCDD	39227-28-6	1.45	JB	0.0908	4.97	1
11031	123678-HxCDD	57653-85-7	4.58	J	0.0908	4.97	1
11031	123789-HxCDD	19408-74-3	2.95	JB	0.0671	4.97	1
11031	1234678-HpCDD	35822-46-9	155	B	0.125	4.97	1
11031	OCDD	3268-87-9	1,250	B	0.151	9.94	1
11650	2378-TCDF-Conf	51207-31-9	0.804	JC	0.0637	0.994	1
11031	12378-PeCDF	57117-41-6	0.686	J	0.0691	4.97	1
11031	23478-PeCDF	57117-31-4	0.953	JB	0.0651	4.97	1
11031	123478-HxCDF	70648-26-9	1.39	J	0.0673	4.97	1
11031	123678-HxCDF	57117-44-9	0.834	J	0.0680	4.97	1
11031	123789-HxCDF	72918-21-9	0.0554	U	0.0554	4.97	1
11031	234678-HxCDF	60851-34-5	1.18	JB	0.0615	4.97	1
11031	1234678-HpCDF	67562-39-4	18.9	B	0.0689	4.97	1
11031	1234789-HpCDF	55673-89-7	1.36	JB	0.0742	4.97	1
11031	OCDF	39001-02-0	66.5	B	0.0692	9.94	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-2378-TCDF-Conf	72	24 - 169
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	105	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	96	17 - 157
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	89	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	81	26 - 138
13C12-OCDF	89	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-034-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA7-SS-0.0-0.5

LLI Sample # SW 6404531
LLI Group # 1266161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 12:15

Submitted: 09/14/2011 09:05
Reported: 09/27/2011 18:11

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

X3313 SDG#: DX133-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

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

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Analysis Report

Sample Description: **SL-034-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA7-SS-0.0-0.5

LLI Sample # SW 6404531
LLI Group # 1266161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 12:15

Submitted: 09/14/2011 09:05
Reported: 09/27/2011 18:11

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

X3313 SDG#: DX133-13

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11263001	09/22/2011 21:17	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11263001	09/25/2011 21:52	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11263001	09/20/2011 11:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11259162402B	09/16/2011 23:10	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-035-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA7-SS-0.0-0.5

LLI Sample # SW 6404532
LLI Group # 1266161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:05

Submitted: 09/14/2011 09:05
Reported: 09/27/2011 18:11

CDM Federal Programs Corp.
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Chantilly VA 20151

X3314 SDG#: DX133-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.51	0.50	0.50	1

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

Sample Description: SL-035-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA7-SS-0.0-0.5

LLI Sample # SW 6404532
LLI Group # 1266161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:05

Submitted: 09/14/2011 09:05
Reported: 09/27/2011 18:11

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X3314 SDG#: DX133-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.388	J	0.0740	0.993	1
11031	12378-PeCDD	40321-76-4	0.715	JQ	0.0914	4.97	1
11031	123478-HxCDD	39227-28-6	1.20	JB	0.0964	4.97	1
11031	123678-HxCDD	57653-85-7	3.30	J	0.0986	4.97	1
11031	123789-HxCDD	19408-74-3	2.29	JB	0.0821	4.97	1
11031	1234678-HpCDD	35822-46-9	109	B	0.140	4.97	1
11031	OCDD	3268-87-9	889	B	0.168	9.93	1
11650	2378-TCDF-Conf	51207-31-9	0.937	JC	0.0563	0.993	1
11031	12378-PeCDF	57117-41-6	1.83	J	0.0861	4.97	1
11031	23478-PeCDF	57117-31-4	0.980	JB	0.0738	4.97	1
11031	123478-HxCDF	70648-26-9	1.51	J	0.0734	4.97	1
11031	123678-HxCDF	57117-44-9	0.725	J	0.0710	4.97	1
11031	123789-HxCDF	72918-21-9	0.226	JQ	0.0760	4.97	1
11031	234678-HxCDF	60851-34-5	0.968	JB	0.0716	4.97	1
11031	1234678-HpCDF	67562-39-4	16.1	B	0.0680	4.97	1
11031	1234789-HpCDF	55673-89-7	1.15	JB	0.0826	4.97	1
11031	OCDF	39001-02-0	60.9	B	0.0679	9.93	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-2378-TCDF-Conf	69	24 - 169
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	92	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	94	17 - 157
13C12-12378-PeCDF	63	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	90	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Sample Description: **SL-035-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA7-SS-0.0-0.5

LLI Sample # SW 6404532
LLI Group # 1266161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:05

Submitted: 09/14/2011 09:05
Reported: 09/27/2011 18:11

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

X3314 SDG#: DX133-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

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

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Analysis Report

Sample Description: **SL-035-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA7-SS-0.0-0.5

LLI Sample # SW 6404532
LLI Group # 1266161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:05

Submitted: 09/14/2011 09:05
Reported: 09/27/2011 18:11

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

X3314 SDG#: DX133-14

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11263001	09/22/2011 22:14	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11263001	09/25/2011 22:58	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11263001	09/20/2011 11:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11259162402B	09/16/2011 23:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-037-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA7-SS-0.0-0.5

LLI Sample # SW 6404533
LLI Group # 1266161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 10:15

Submitted: 09/14/2011 09:05
Reported: 09/27/2011 18:11

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

X3315 SDG#: DX133-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.72	0.50	0.50	1

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

Sample Description: SL-037-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA7-SS-0.0-0.5

LLI Sample # SW 6404533
LLI Group # 1266161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 10:15

Submitted: 09/14/2011 09:05
Reported: 09/27/2011 18:11

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

X3315 SDG#: DX133-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.140	JQ	0.0687	1.01	1
11031	12378-PeCDD	40321-76-4	0.476	J	0.0688	5.03	1
11031	123478-HxCDD	39227-28-6	0.696	JB	0.0706	5.03	1
11031	123678-HxCDD	57653-85-7	1.42	J	0.0733	5.03	1
11031	123789-HxCDD	19408-74-3	1.12	JB	0.0619	5.03	1
11031	1234678-HpCDD	35822-46-9	42.4	B	0.106	5.03	1
11031	OCDD	3268-87-9	429	B	0.105	10.1	1
11650	2378-TCDF-Conf	51207-31-9	0.976	JC	0.0823	1.01	1
11031	12378-PeCDF	57117-41-6	0.806	JQ	0.0943	5.03	1
11031	23478-PeCDF	57117-31-4	2.48	JB	0.0804	5.03	1
11031	123478-HxCDF	70648-26-9	2.77	J	0.0844	5.03	1
11031	123678-HxCDF	57117-44-9	0.992	J	0.0803	5.03	1
11031	123789-HxCDF	72918-21-9	0.337	JQ	0.0655	5.03	1
11031	234678-HxCDF	60851-34-5	0.946	JB	0.0609	5.03	1
11031	1234678-HpCDF	67562-39-4	9.58	B	0.0715	5.03	1
11031	1234789-HpCDF	55673-89-7	0.968	JB	0.0745	5.03	1
11031	OCDF	39001-02-0	19.1	B	0.0624	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	92	25 - 164
13C12-2378-TCDF-Conf	86	24 - 169
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	91	32 - 141
13C12-123678-HxCDD	94	28 - 130
13C12-123789-HxCDD	113	28 - 130
13C12-1234678-HpCDD	100	23 - 140
13C12-OCDD	107	17 - 157
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	96	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	92	26 - 138
13C12-OCDF	98	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Sample Description: **SL-037-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA7-SS-0.0-0.5

LLI Sample # SW 6404533
LLI Group # 1266161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 10:15

Submitted: 09/14/2011 09:05
Reported: 09/27/2011 18:11

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

X3315 SDG#: DX133-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-037-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA7-SS-0.0-0.5

LLI Sample # SW 6404533
LLI Group # 1266161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 10:15

Submitted: 09/14/2011 09:05
Reported: 09/27/2011 18:11

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

X3315 SDG#: DX133-15

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11263001	09/22/2011 23:10	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11263001	09/26/2011 00:04	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11263001	09/20/2011 11:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11259162402B	09/16/2011 23:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-040-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA7-SS-0.0-0.5

LLI Sample # SW 6404534
LLI Group # 1266161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 08:46

Submitted: 09/14/2011 09:05
Reported: 09/27/2011 18:11

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

X3316 SDG#: DX133-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.93	0.50	0.50	1

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

Sample Description: SL-040-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA7-SS-0.0-0.5

LLI Sample # SW 6404534
LLI Group # 1266161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 08:46

Submitted: 09/14/2011 09:05
Reported: 09/27/2011 18:11

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

X3316 SDG#: DX133-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0527	U	0.0527	1.00	1
11031	12378-PeCDD	40321-76-4	0.121	JQ	0.0441	5.02	1
11031	123478-HxCDD	39227-28-6	0.0941	JB	0.0454	5.02	1
11031	123678-HxCDD	57653-85-7	0.207	JQ	0.0458	5.02	1
11031	123789-HxCDD	19408-74-3	0.177	JBQ	0.0405	5.02	1
11031	1234678-HpCDD	35822-46-9	2.25	JB	0.0557	5.02	1
11031	OCDD	3268-87-9	19.2	B	0.0359	10.0	1
11031	2378-TCDF	51207-31-9	0.0973	J	0.0618	1.00	1
11031	12378-PeCDF	57117-41-6	0.175	JQ	0.0293	5.02	1
11031	23478-PeCDF	57117-31-4	0.277	JB	0.0304	5.02	1
11031	123478-HxCDF	70648-26-9	0.188	JQ	0.0265	5.02	1
11031	123678-HxCDF	57117-44-9	0.113	J	0.0251	5.02	1
11031	123789-HxCDF	72918-21-9	0.0876	J	0.0312	5.02	1
11031	234678-HxCDF	60851-34-5	0.164	JB	0.0311	5.02	1
11031	1234678-HpCDF	67562-39-4	1.07	JB	0.0257	5.02	1
11031	1234789-HpCDF	55673-89-7	0.0922	JB	0.0407	5.02	1
11031	OCDF	39001-02-0	3.38	JB	0.0507	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	61	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	70	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Sample Description: **SL-040-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA7-SS-0.0-0.5

LLI Sample # SW 6404534
LLI Group # 1266161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 08:46

Submitted: 09/14/2011 09:05
Reported: 09/27/2011 18:11

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

X3316 SDG#: DX133-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-040-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA7-SS-0.0-0.5

LLI Sample # SW 6404534
LLI Group # 1266161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 08:46

Submitted: 09/14/2011 09:05
Reported: 09/27/2011 18:11

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

X3316 SDG#: DX133-16

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11263001	09/23/2011 00:07	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11263001	09/20/2011 11:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11259162402B	09/16/2011 23:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-041-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA7-SS-0.0-0.5

LLI Sample # SW 6404535
LLI Group # 1266161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 09:09

Submitted: 09/14/2011 09:05
Reported: 09/27/2011 18:11

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

X3317 SDG#: DX133-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.1	0.50	0.50	1

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

Sample Description: SL-041-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA7-SS-0.0-0.5

LLI Sample # SW 6404535
LLI Group # 1266161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 09:09

Submitted: 09/14/2011 09:05
Reported: 09/27/2011 18:11

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

X3317 SDG#: DX133-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0719	JQ	0.0601	1.00	1
11031	12378-PeCDD	40321-76-4	0.242	JQ	0.0461	5.02	1
11031	123478-HxCDD	39227-28-6	0.236	JBQ	0.0679	5.02	1
11031	123678-HxCDD	57653-85-7	0.595	JQ	0.0687	5.02	1
11031	123789-HxCDD	19408-74-3	0.434	JBQ	0.0624	5.02	1
11031	1234678-HpCDD	35822-46-9	17.0	B	0.0732	5.02	1
11031	OCDD	3268-87-9	119	B	0.0579	10.0	1
11031	2378-TCDF	51207-31-9	0.176	JQ	0.0721	1.00	1
11031	12378-PeCDF	57117-41-6	0.166	J	0.0309	5.02	1
11031	23478-PeCDF	57117-31-4	0.240	JB	0.0290	5.02	1
11031	123478-HxCDF	70648-26-9	0.556	J	0.0355	5.02	1
11031	123678-HxCDF	57117-44-9	0.177	JQ	0.0305	5.02	1
11031	123789-HxCDF	72918-21-9	0.0691	JQ	0.0358	5.02	1
11031	234678-HxCDF	60851-34-5	0.159	JB	0.0308	5.02	1
11031	1234678-HpCDF	67562-39-4	1.72	JB	0.0301	5.02	1
11031	1234789-HpCDF	55673-89-7	0.166	JBQ	0.0467	5.02	1
11031	OCDF	39001-02-0	3.74	JB	0.0512	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	98	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	82	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Sample Description: **SL-041-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA7-SS-0.0-0.5

LLI Sample # SW 6404535
LLI Group # 1266161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 09:09

Submitted: 09/14/2011 09:05
Reported: 09/27/2011 18:11

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

X3317 SDG#: DX133-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

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

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Analysis Report

Sample Description: **SL-041-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA7-SS-0.0-0.5

LLI Sample # SW 6404535
LLI Group # 1266161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 09:09

Submitted: 09/14/2011 09:05
Reported: 09/27/2011 18:11

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

X3317 SDG#: DX133-17

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11263001	09/23/2011 05:59	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11263001	09/20/2011 11:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11259162402B	09/16/2011 23:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-070-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-070-SA7-SS-0.0-0.5

LLI Sample # SW 6404536
LLI Group # 1266161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 10:35

Submitted: 09/14/2011 09:05
Reported: 09/27/2011 18:11

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

X3318 SDG#: DX133-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.53	0.50	0.50	1

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

Sample Description: SL-070-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA7-SS-0.0-0.5

LLI Sample # SW 6404536
LLI Group # 1266161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 10:35

Submitted: 09/14/2011 09:05
Reported: 09/27/2011 18:11

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

X3318 SDG#: DX133-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0574	U	0.0574	0.981	1
11031	12378-PeCDD	40321-76-4	0.334	JQ	0.0588	4.90	1
11031	123478-HxCDD	39227-28-6	0.350	JBQ	0.0737	4.90	1
11031	123678-HxCDD	57653-85-7	1.06	J	0.0761	4.90	1
11031	123789-HxCDD	19408-74-3	0.682	JB	0.0638	4.90	1
11031	1234678-HpCDD	35822-46-9	29.5	B	0.103	4.90	1
11031	OCDD	3268-87-9	333	B	0.106	9.81	1
11031	2378-TCDF	51207-31-9	0.126	U	0.126	0.981	1
11031	12378-PeCDF	57117-41-6	1.46	J	0.0679	4.90	1
11031	23478-PeCDF	57117-31-4	1.08	JB	0.0609	4.90	1
11031	123478-HxCDF	70648-26-9	2.14	J	0.0460	4.90	1
11031	123678-HxCDF	57117-44-9	0.500	J	0.0506	4.90	1
11031	123789-HxCDF	72918-21-9	0.246	J	0.0525	4.90	1
11031	234678-HxCDF	60851-34-5	0.630	JB	0.0515	4.90	1
11031	1234678-HpCDF	67562-39-4	6.44	B	0.0458	4.90	1
11031	1234789-HpCDF	55673-89-7	0.636	JB	0.0555	4.90	1
11031	OCDF	39001-02-0	14.0	B	0.0606	9.81	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	89	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	79	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Sample Description: **SL-070-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-070-SA7-SS-0.0-0.5

LLI Sample # SW 6404536
LLI Group # 1266161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 10:35

Submitted: 09/14/2011 09:05
Reported: 09/27/2011 18:11

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

X3318 SDG#: DX133-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-070-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-070-SA7-SS-0.0-0.5

LLI Sample # SW 6404536
LLI Group # 1266161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 10:35

Submitted: 09/14/2011 09:05
Reported: 09/27/2011 18:11

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

X3318 SDG#: DX133-18

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11263001	09/23/2011 06:56	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11263001	09/20/2011 11:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11259162402B	09/16/2011 23:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-071-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA7-SS-0.0-0.5

LLI Sample # SW 6404537
LLI Group # 1266161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 09:26

Submitted: 09/14/2011 09:05
Reported: 09/27/2011 18:11

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

X3319 SDG#: DX133-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.55	0.50	0.50	1

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

Sample Description: SL-071-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA7-SS-0.0-0.5

LLI Sample # SW 6404537
LLI Group # 1266161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 09:26

Submitted: 09/14/2011 09:05
Reported: 09/27/2011 18:11

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

X3319 SDG#: DX133-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0537	U	0.0537	1.00	1
11031	12378-PeCDD	40321-76-4	0.193	J	0.0566	5.01	1
11031	123478-HxCDD	39227-28-6	0.590	JBQ	0.0659	5.01	1
11031	123678-HxCDD	57653-85-7	0.702	JQ	0.0676	5.01	1
11031	123789-HxCDD	19408-74-3	0.575	JBQ	0.0651	5.01	1
11031	1234678-HpCDD	35822-46-9	39.5	B	0.102	5.01	1
11031	OCDD	3268-87-9	284	B	0.0787	10.0	1
11031	2378-TCDF	51207-31-9	0.0843	JQ	0.0674	1.00	1
11031	12378-PeCDF	57117-41-6	0.157	JQ	0.0305	5.01	1
11031	23478-PeCDF	57117-31-4	0.277	JB	0.0340	5.01	1
11031	123478-HxCDF	70648-26-9	0.376	JQ	0.0476	5.01	1
11031	123678-HxCDF	57117-44-9	0.203	J	0.0398	5.01	1
11031	123789-HxCDF	72918-21-9	0.163	J	0.0308	5.01	1
11031	234678-HxCDF	60851-34-5	0.241	JBQ	0.0391	5.01	1
11031	1234678-HpCDF	67562-39-4	3.17	JB	0.0311	5.01	1
11031	1234789-HpCDF	55673-89-7	0.380	JBQ	0.0544	5.01	1
11031	OCDF	39001-02-0	8.44	JB	0.0588	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	99	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	100	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	71	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Sample Description: **SL-071-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA7-SS-0.0-0.5

LLI Sample # SW 6404537
LLI Group # 1266161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 09:26

Submitted: 09/14/2011 09:05
Reported: 09/27/2011 18:11

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

X3319 SDG#: DX133-19

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

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

Lancaster Laboratories

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

Analysis Report

Sample Description: **SL-071-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA7-SS-0.0-0.5

LLI Sample # SW 6404537
LLI Group # 1266161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 09:26

Submitted: 09/14/2011 09:05
Reported: 09/27/2011 18:11

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

X3319 SDG#: DX133-19

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11263001	09/23/2011 07:53	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11263001	09/20/2011 11:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11259162402B	09/16/2011 23:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-073-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-073-SA7-SS-0.0-0.5

LLI Sample # SW 6404538
LLI Group # 1266161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:30

Submitted: 09/14/2011 09:05
Reported: 09/27/2011 18:11

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

X3320 SDG#: DX133-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.70	0.50	0.50	1

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

Sample Description: SL-073-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA7-SS-0.0-0.5

LLI Sample # SW 6404538
LLI Group # 1266161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:30

Submitted: 09/14/2011 09:05
Reported: 09/27/2011 18:11

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

X3320 SDG#: DX133-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0814	U	0.0814	0.999	1
11031	12378-PeCDD	40321-76-4	0.554	J	0.101	5.00	1
11031	123478-HxCDD	39227-28-6	1.64	JB	0.110	5.00	1
11031	123678-HxCDD	57653-85-7	4.78	J	0.112	5.00	1
11031	123789-HxCDD	19408-74-3	2.45	JBQ	0.114	5.00	1
11031	1234678-HpCDD	35822-46-9	161	B	0.186	5.00	1
11031	OCDD	3268-87-9	1,600	B	0.206	9.99	1
11031	2378-TCDF	51207-31-9	0.316	JQ	0.121	0.999	1
11031	12378-PeCDF	57117-41-6	0.859	J	0.0668	5.00	1
11031	23478-PeCDF	57117-31-4	1.03	JB	0.0671	5.00	1
11031	123478-HxCDF	70648-26-9	1.09	JQ	0.0782	5.00	1
11031	123678-HxCDF	57117-44-9	0.724	JQ	0.0641	5.00	1
11031	123789-HxCDF	72918-21-9	0.451	JQ	0.0549	5.00	1
11031	234678-HxCDF	60851-34-5	0.599	JB	0.0708	5.00	1
11031	1234678-HpCDF	67562-39-4	8.07	B	0.0510	5.00	1
11031	1234789-HpCDF	55673-89-7	0.588	JBQ	0.0803	5.00	1
11031	OCDF	39001-02-0	17.3	B	0.0722	9.99	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	99	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	110	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	81	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-073-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-073-SA7-SS-0.0-0.5

LLI Sample # SW 6404538
LLI Group # 1266161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:30

Submitted: 09/14/2011 09:05
Reported: 09/27/2011 18:11

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

X3320 SDG#: DX133-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-073-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-073-SA7-SS-0.0-0.5

LLI Sample # SW 6404538
LLI Group # 1266161
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:30

Submitted: 09/14/2011 09:05
Reported: 09/27/2011 18:11

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

X3320 SDG#: DX133-20*

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11263001	09/23/2011 08:49	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11263001	09/20/2011 11:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11259162402B	09/16/2011 23:10	Scott W Freisher	1

Lancaster Laboratories

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

Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266161
Reported: 09/27/11 at 06:11 PM

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

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11259162402B	Sample number(s): 6404530-6404538								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11263001	Sample number(s): 6404530-6404538								
2378-TCDD	0.0666 U	0.0666	1.00	ng/kg	103		67-158		
12378-PeCDD	0.0384 U	0.0384	5.00	ng/kg	102		70-142		
123478-HxCDD	0.0330 J	0.0278	5.00	ng/kg	102		70-164		
123678-HxCDD	0.0288 U	0.0288	5.00	ng/kg	100		76-134		
123789-HxCDD	0.0687 J	0.0282	5.00	ng/kg	101		64-162		
1234678-HpCDD	0.184 J	0.0399	5.00	ng/kg	100		70-140		
OCDD	0.418 J	0.0272	10.0	ng/kg	100		78-144		
2378-TCDF	0.0628 U	0.0628	1.00	ng/kg	100		75-158		
2378-TCDF-Conf	0.0360 U	0.0360	1.00	ng/kg	100		75-158		
12378-PeCDF	0.0232 U	0.0232	5.00	ng/kg	97		80-134		
23478-PeCDF	0.0420 J	0.0234	5.00	ng/kg	92		68-160		
123478-HxCDF	0.0266 U	0.0266	5.00	ng/kg	97		72-134		
123678-HxCDF	0.0215 U	0.0215	5.00	ng/kg	93		84-130		
123789-HxCDF	0.0248 U	0.0248	5.00	ng/kg	97		78-130		
234678-HxCDF	0.0706 J	0.0224	5.00	ng/kg	96		70-156		
1234678-HpCDF	0.0934 J	0.0163	5.00	ng/kg	92		82-122		
1234789-HpCDF	0.0517 J	0.0294	5.00	ng/kg	97		78-138		
OCDF	0.129 J	0.0550	10.0	ng/kg	100		63-170		

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11259162402B	Sample number(s): 6404530-6404538					BKG: P404352			
Moisture Content by 160.3						3.0	2.9	2	20
Batch number: 11263001	Sample number(s): 6404530-6404538					UNSPK: P401600			
2378-TCDD	107	102	67-158	5	25				
12378-PeCDD	101	101	70-142	0	25				
123478-HxCDD	100	100	70-164	0	25				
123678-HxCDD	96	98	76-134	2	25				
123789-HxCDD	107	110	64-162	2	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266161
Reported: 09/27/11 at 06:11 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1234678-HpCDD	109	97	70-140	11	25				
OCDD	341*	79	78-144	83*	25				
2378-TCDF	96	98	75-158	2	25				
2378-TCDF-Conf	96	98	75-158	2	25				
12378-PeCDF	95	99	80-134	3	25				
23478-PeCDF	95	96	68-160	0	25				
123478-HxCDF	95	97	72-134	1	25				
123678-HxCDF	95	97	84-130	2	25				
123789-HxCDF	95	103	78-130	8	25				
234678-HxCDF	93	96	70-156	2	25				
1234678-HpCDF	93	95	82-122	2	25				
1234789-HpCDF	97	99	78-138	2	25				
OCDF	103	102	63-170	1	25				

Surrogate Quality Control

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

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11263001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6404530	79	68	65	67	73	76
6404531	75	64	63	64	71	89
6404532	75	66	68	71	71	79
6404533	92	83	64	65	87	96
6404534	74	59	72	77	62	74
6404535	72	62	62	70	68	67
6404536	77	63	76	71	64	77
6404537	79	62	55	65	65	100
6404538	77	63	65	76	68	110
Blank	75	60	60	73	66	70
MS	72	62	39	42	65	71
MSD	77	63	67	75	68	103
OPR	69	61	43	50	72	63
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6404530	76	77	96	70	74	81
6404531	70	81	89	64	74	77
6404532	74	75	90	64	75	76
6404533	77	92	98	82	91	94
6404534	81	62	70	61	67	71
6404535	81	67	82	64	78	78
6404536	69	67	79	64	69	71
6404537	89	63	71	68	78	79
6404538	84	68	81	67	75	77

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266161
Reported: 09/27/11 at 06:11 PM

Surrogate Quality Control

Blank	95	64	69	72	86	89
MS	58	66	83	66	75	78
MSD	96	71	86	70	80	83
OPR	73	64	70	70	81	84
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6404530	87	86	108	79	71	
6404531	105	87	96		64	72
6404532	92	82	94		63	69
6404533	113	100	107		81	86
6404534	81	76	90	67	65	
6404535	78	83	98	70	67	
6404536	81	74	89	79	66	
6404537	80	88	99	71	75	
6404538	74	82	99	72	69	
Blank	90	93	100	65	69	62
MS	95	82	102	71	68	71
MSD	102	91	109	73	73	73
OPR	83	89	96	61	67	61
Limits:	28-130	23-140	17-157	24-169	24-185	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Op# 1266161 Sample# 6404530-35

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowanol EPA 8270	Other Instructions and Notes
SL-030-SA7-SS-0.0-0.5	09.13.11	1455	SOIL	NONE	1-SS Sleeve			X	X																		
SL-030-SA7-SS-0.0-0.5	09.13.11	1455	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	X	X											
SL-034-SA7-SS-0.0-0.5	09.13.11	1215	SOIL	NONE	1-SS Sleeve			X	X																		
SL-034-SA7-SS-0.0-0.5	09.13.11	1215	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											
SL-035-SA7-SS-0.0-0.5	09.13.11	1405	SOIL	NONE	1-SS Sleeve			X	X																		
SL-035-SA7-SS-0.0-0.5	09.13.11	1405	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											
SL-037-SA7-SS-0.0-0.5	09.13.11	1015	SOIL	NONE	1-SS Sleeve			X	X																		
SL-037-SA7-SS-0.0-0.5	09.13.11	1015	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X						X	X	X		
SL-040-SA7-SS-0.0-0.5	09.13.11	0846	SOIL	NONE	1-SS Sleeve			X	X																		
SL-040-SA7-SS-0.0-0.5	09.13.11	0846	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											
SL-041-SA7-SS-0.0-0.5	09.13.11	0909	SOIL	NONE	1-SS Sleeve			X	X																		
SL-041-SA7-SS-0.0-0.5	09.13.11	0909	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X						X	X	X		
SL-070-SA7-SS-0.0-0.5	09.13.11	1035	SOIL	NONE	1-SS Sleeve			X	X																		
SL-070-SA7-SS-0.0-0.5	09.13.11	1035	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X						X	X	X		
SL-071-SA7-SS-0.0-0.5	09.13.11	0926	SOIL	NONE	1-SS Sleeve			X	X																		
SL-071-SA7-SS-0.0-0.5	09.13.11	0926	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X						X	X	X		
SL-073-SA7-SS-0.0-0.5	09.13.11	1430	SOIL	NONE	1-SS Sleeve			X	X																		
SL-073-SA7-SS-0.0-0.5	09.13.11	1430	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X						X	X	X		
SL-146-SA7-SS-0.0-0.5	09.13.11	1140	SOIL	NONE	1-SS Sleeve			X	X																		
SL-146-SA7-SS-0.0-0.5	09.13.11	1140	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	X	X											

PRIMARY FOR ALL LOCATIONS | SS ONLY | SECONDARY FOR ALL LOCATIONS

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	09/13/2011 / 1600	9/14/11 0905	Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No(s)**	
		8754 3341 6573, 6584 6595	

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

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

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

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

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

October 03, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/14/2011
Group Number: 1266163
SDG: DX134
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-146-SA7-SS-0.0-0.5 Soil	6404549
SL-338-SA5B-SB-7.0-8.0 Soil	6404550
SL-341-SA5B-SB-4.0-5.0 Soil	6404551
SL-341-SA5B-SB-9.0-10.0 Soil	6404552
SL-342-SA5B-SB-4.0-5.0 Soil	6404553
SL-342-SA5B-SB-9.0-10.0 Soil	6404554

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

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

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Analysis Report

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

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-146-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA7-SS-0.0-0.5

LLI Sample # SW 6404549
LLI Group # 1266163
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 11:40

Submitted: 09/14/2011 09:05
Reported: 10/03/2011 08:54

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

X3401 SDG#: DX134-01

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

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

Sample Description: **SL-146-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA7-SS-0.0-0.5

LLI Sample # SW 6404549
LLI Group # 1266163
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 11:40

Submitted: 09/14/2011 09:05
Reported: 10/03/2011 08:54

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

X3401 SDG#: DX134-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.213	J	0.0567	0.997	1
11031	12378-PeCDD	40321-76-4	2.36	JB	0.0843	4.99	1
11031	123478-HxCDD	39227-28-6	5.13	B	0.0614	4.99	1
11031	123678-HxCDD	57653-85-7	16.3	B	0.0610	4.99	1
11031	123789-HxCDD	19408-74-3	9.68		0.0597	4.99	1
11031	1234678-HpCDD	35822-46-9	465	B	0.216	4.99	1
11031	OCDD	3268-87-9	3,160	B	0.178	9.97	1
11650	2378-TCDF-Conf	51207-31-9	3.77	C	0.0509	0.997	1
11031	12378-PeCDF	57117-41-6	1.83	JB	0.0574	4.99	1
11031	23478-PeCDF	57117-31-4	1.66	JB	0.0511	4.99	1
11031	123478-HxCDF	70648-26-9	3.24	JB	0.0534	4.99	1
11031	123678-HxCDF	57117-44-9	2.25	JB	0.0530	4.99	1
11031	123789-HxCDF	72918-21-9	0.559	JB	0.0598	4.99	1
11031	234678-HxCDF	60851-34-5	3.30	JB	0.0522	4.99	1
11031	1234678-HpCDF	67562-39-4	64.1	B	0.0676	4.99	1
11031	1234789-HpCDF	55673-89-7	3.93	J	0.0889	4.99	1
11031	OCDF	39001-02-0	223	B	0.0610	9.97	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-2378-TCDF-Conf	72	24 - 169
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	85	17 - 157
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	73	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

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Analysis Report

Sample Description: **SL-146-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA7-SS-0.0-0.5

LLI Sample # SW 6404549
LLI Group # 1266163
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 11:40

Submitted: 09/14/2011 09:05
Reported: 10/03/2011 08:54

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

X3401 SDG#: DX134-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

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

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Analysis Report

Sample Description: **SL-146-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA7-SS-0.0-0.5

LLI Sample # SW 6404549
LLI Group # 1266163
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 11:40

Submitted: 09/14/2011 09:05
Reported: 10/03/2011 08:54

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

X3401 SDG#: DX134-01

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11265001	09/24/2011 09:55	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11265001	09/26/2011 02:15	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11265001	09/22/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11259162402B	09/16/2011 23:10	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-338-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-338-SA5B-SB-7.0-8.0

LLI Sample # SW 6404550
LLI Group # 1266163
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 09:00

Submitted: 09/14/2011 09:05
Reported: 10/03/2011 08:54

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

X3402 SDG#: DX134-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.0	0.50	0.50	1

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

Sample Description: **SL-338-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-338-SA5B-SB-7.0-8.0

LLI Sample # SW 6404550
LLI Group # 1266163
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 09:00

Submitted: 09/14/2011 09:05
Reported: 10/03/2011 08:54

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

X3402 SDG#: DX134-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0468	U	0.0468	1.05	1
11031	12378-PeCDD	40321-76-4	0.0702	JBQ	0.0372	5.24	1
11031	123478-HxCDD	39227-28-6	0.0832	JB	0.0413	5.24	1
11031	123678-HxCDD	57653-85-7	0.276	JB	0.0419	5.24	1
11031	123789-HxCDD	19408-74-3	0.268	J	0.0402	5.24	1
11031	1234678-HpCDD	35822-46-9	16.7	B	0.0735	5.24	1
11031	OCDD	3268-87-9	261	B	0.0778	10.5	1
11031	2378-TCDF	51207-31-9	0.0346	U	0.0346	1.05	1
11031	12378-PeCDF	57117-41-6	0.0687	JB	0.0203	5.24	1
11031	23478-PeCDF	57117-31-4	0.279	JBQ	0.0212	5.24	1
11031	123478-HxCDF	70648-26-9	0.163	JB	0.0314	5.24	1
11031	123678-HxCDF	57117-44-9	0.134	JB	0.0268	5.24	1
11031	123789-HxCDF	72918-21-9	0.290	JB	0.0394	5.24	1
11031	234678-HxCDF	60851-34-5	0.235	JB	0.0313	5.24	1
11031	1234678-HpCDF	67562-39-4	2.16	JB	0.0212	5.24	1
11031	1234789-HpCDF	55673-89-7	0.320	JQ	0.0455	5.24	1
11031	OCDF	39001-02-0	5.35	JB	0.0522	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	100	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	56	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Sample Description: **SL-338-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-338-SA5B-SB-7.0-8.0

LLI Sample # SW 6404550
LLI Group # 1266163
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 09:00

Submitted: 09/14/2011 09:05
Reported: 10/03/2011 08:54

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

X3402 SDG#: DX134-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

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

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Analysis Report

Sample Description: **SL-338-SA5B-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-338-SA5B-SB-7.0-8.0

LLI Sample # SW 6404550
LLI Group # 1266163
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 09:00

Submitted: 09/14/2011 09:05
Reported: 10/03/2011 08:54

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

X3402 SDG#: DX134-02

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11265001	09/24/2011 10:51	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11265001	09/22/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	2	11273162401A	09/30/2011 23:10	Scott W Freisher	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-341-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-341-SA5B-SB-4.0-5.0

LLI Sample # SW 6404551
LLI Group # 1266163
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 11:43

Submitted: 09/14/2011 09:05
Reported: 10/03/2011 08:54

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

X3403 SDG#: DX134-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.4	0.50	0.50	1

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

Sample Description: **SL-341-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-341-SA5B-SB-4.0-5.0

LLI Sample # SW 6404551
LLI Group # 1266163
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 11:43

Submitted: 09/14/2011 09:05
Reported: 10/03/2011 08:54

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

X3403 SDG#: DX134-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0466	U	0.0466	1.12	1
11031	12378-PeCDD	40321-76-4	0.165	JBQ	0.0420	5.61	1
11031	123478-HxCDD	39227-28-6	0.209	JB	0.0411	5.61	1
11031	123678-HxCDD	57653-85-7	0.744	JB	0.0407	5.61	1
11031	123789-HxCDD	19408-74-3	0.699	J	0.0410	5.61	1
11031	1234678-HpCDD	35822-46-9	22.2	B	0.0763	5.61	1
11031	OCDD	3268-87-9	314	B	0.0823	11.2	1
11031	2378-TCDF	51207-31-9	0.0441	U	0.0441	1.12	1
11031	12378-PeCDF	57117-41-6	0.0492	JBQ	0.0210	5.61	1
11031	23478-PeCDF	57117-31-4	0.135	JB	0.0194	5.61	1
11031	123478-HxCDF	70648-26-9	0.175	JB	0.0277	5.61	1
11031	123678-HxCDF	57117-44-9	0.201	JB	0.0256	5.61	1
11031	123789-HxCDF	72918-21-9	0.133	JBQ	0.0326	5.61	1
11031	234678-HxCDF	60851-34-5	0.249	JBQ	0.0269	5.61	1
11031	1234678-HpCDF	67562-39-4	2.29	JB	0.0217	5.61	1
11031	1234789-HpCDF	55673-89-7	0.224	J	0.0348	5.61	1
11031	OCDF	39001-02-0	5.99	JB	0.0481	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	97	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	90	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	85	24 - 169
13C12-12378-PeCDF	97	24 - 185
13C12-23478-PeCDF	95	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	102	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	72	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-341-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-341-SA5B-SB-4.0-5.0

LLI Sample # SW 6404551
LLI Group # 1266163
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 11:43

Submitted: 09/14/2011 09:05
Reported: 10/03/2011 08:54

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

X3403 SDG#: DX134-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

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

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Analysis Report

Sample Description: **SL-341-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-341-SA5B-SB-4.0-5.0

LLI Sample # SW 6404551
LLI Group # 1266163
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 11:43

Submitted: 09/14/2011 09:05
Reported: 10/03/2011 08:54

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

X3403 SDG#: DX134-03

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11265001	09/24/2011 11:48	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11265001	09/22/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11272162401A	09/29/2011 21:46	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-341-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-341-SA5B-SB-9.0-10.0

LLI Sample # SW 6404552
LLI Group # 1266163
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 11:47

Submitted: 09/14/2011 09:05
Reported: 10/03/2011 08:54

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

X3404 SDG#: DX134-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.0	0.50	0.50	1

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

Sample Description: SL-341-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-341-SA5B-SB-9.0-10.0

LLI Sample # SW 6404552
LLI Group # 1266163
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 11:47

Submitted: 09/14/2011 09:05
Reported: 10/03/2011 08:54

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

X3404 SDG#: DX134-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0455	U	0.0455	1.06	1
11031	12378-PeCDD	40321-76-4	0.519	JBQ	0.0542	5.32	1
11031	123478-HxCDD	39227-28-6	0.656	JB	0.0435	5.32	1
11031	123678-HxCDD	57653-85-7	2.03	JB	0.0444	5.32	1
11031	123789-HxCDD	19408-74-3	2.02	J	0.0409	5.32	1
11031	1234678-HpCDD	35822-46-9	52.1	B	0.0974	5.32	1
11031	OCDD	3268-87-9	775	B	0.113	10.6	1
11031	2378-TCDF	51207-31-9	0.0942	J	0.0392	1.06	1
11031	12378-PeCDF	57117-41-6	0.137	JB	0.0232	5.32	1
11031	23478-PeCDF	57117-31-4	0.145	JBQ	0.0215	5.32	1
11031	123478-HxCDF	70648-26-9	0.310	JB	0.0293	5.32	1
11031	123678-HxCDF	57117-44-9	0.363	JB	0.0292	5.32	1
11031	123789-HxCDF	72918-21-9	0.145	JB	0.0302	5.32	1
11031	234678-HxCDF	60851-34-5	0.546	JB	0.0276	5.32	1
11031	1234678-HpCDF	67562-39-4	6.58	B	0.0270	5.32	1
11031	1234789-HpCDF	55673-89-7	0.396	J	0.0349	5.32	1
11031	OCDF	39001-02-0	15.0	B	0.0475	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	71	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Sample Description: **SL-341-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-341-SA5B-SB-9.0-10.0

LLI Sample # SW 6404552
LLI Group # 1266163
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 11:47

Submitted: 09/14/2011 09:05
Reported: 10/03/2011 08:54

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

X3404 SDG#: DX134-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-341-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-341-SA5B-SB-9.0-10.0

LLI Sample # SW 6404552
LLI Group # 1266163
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 11:47

Submitted: 09/14/2011 09:05
Reported: 10/03/2011 08:54

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

X3404 SDG#: DX134-04

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11265001	09/24/2011 12:44	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11265001	09/22/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11272162401A	09/29/2011 21:46	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-342-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-342-SA5B-SB-4.0-5.0

LLI Sample # SW 6404553
LLI Group # 1266163
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:50

Submitted: 09/14/2011 09:05
Reported: 10/03/2011 08:54

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

X3405 SDG#: DX134-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.3	0.50	0.50	1

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

Sample Description: **SL-342-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-342-SA5B-SB-4.0-5.0

LLI Sample # SW 6404553
LLI Group # 1266163
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:50

Submitted: 09/14/2011 09:05
Reported: 10/03/2011 08:54

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

X3405 SDG#: DX134-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0344	U	0.0344	1.11	1
11031	12378-PeCDD	40321-76-4	0.139	JB	0.0371	5.53	1
11031	123478-HxCDD	39227-28-6	0.189	JB	0.0384	5.53	1
11031	123678-HxCDD	57653-85-7	1.00	JB	0.0404	5.53	1
11031	123789-HxCDD	19408-74-3	0.806	J	0.0368	5.53	1
11031	1234678-HpCDD	35822-46-9	34.2	B	0.0787	5.53	1
11031	OCDD	3268-87-9	498	B	0.0889	11.1	1
11031	2378-TCDF	51207-31-9	0.0330	U	0.0330	1.11	1
11031	12378-PeCDF	57117-41-6	0.0637	JB	0.0183	5.53	1
11031	23478-PeCDF	57117-31-4	0.146	JBQ	0.0174	5.53	1
11031	123478-HxCDF	70648-26-9	0.215	JB	0.0250	5.53	1
11031	123678-HxCDF	57117-44-9	0.206	JB	0.0236	5.53	1
11031	123789-HxCDF	72918-21-9	0.202	JBQ	0.0401	5.53	1
11031	234678-HxCDF	60851-34-5	0.228	JB	0.0226	5.53	1
11031	1234678-HpCDF	67562-39-4	3.39	JB	0.0249	5.53	1
11031	1234789-HpCDF	55673-89-7	0.272	JQ	0.0381	5.53	1
11031	OCDF	39001-02-0	12.5	B	0.0447	11.1	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	86	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	85	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	88	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	57	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	70	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Sample Description: **SL-342-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-342-SA5B-SB-4.0-5.0

LLI Sample # SW 6404553
LLI Group # 1266163
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:50

Submitted: 09/14/2011 09:05
Reported: 10/03/2011 08:54

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

X3405 SDG#: DX134-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-342-SA5B-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-342-SA5B-SB-4.0-5.0

LLI Sample # SW 6404553
LLI Group # 1266163
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:50

Submitted: 09/14/2011 09:05
Reported: 10/03/2011 08:54

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

X3405 SDG#: DX134-05

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11265001	09/24/2011 13:41	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11265001	09/22/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11272162401A	09/29/2011 21:46	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-342-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-342-SA5B-SB-9.0-10.0

LLI Sample # SW 6404554
LLI Group # 1266163
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:55

Submitted: 09/14/2011 09:05
Reported: 10/03/2011 08:54

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

X3406 SDG#: DX134-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.0	0.50	0.50	1

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

Sample Description: SL-342-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-342-SA5B-SB-9.0-10.0

LLI Sample # SW 6404554
LLI Group # 1266163
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:55

Submitted: 09/14/2011 09:05
Reported: 10/03/2011 08:54

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

X3406 SDG#: DX134-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0409	U	0.0409	1.10	1
11031	12378-PeCDD	40321-76-4	0.0513	JB	0.0296	5.48	1
11031	123478-HxCDD	39227-28-6	0.0358	JBQ	0.0300	5.48	1
11031	123678-HxCDD	57653-85-7	0.371	JB	0.0288	5.48	1
11031	123789-HxCDD	19408-74-3	0.376	J	0.0281	5.48	1
11031	1234678-HpCDD	35822-46-9	7.66	B	0.0418	5.48	1
11031	OCDD	3268-87-9	89.5	B	0.0602	11.0	1
11031	2378-TCDF	51207-31-9	0.0602	JQ	0.0324	1.10	1
11031	12378-PeCDF	57117-41-6	0.0189	U	0.0189	5.48	1
11031	23478-PeCDF	57117-31-4	0.150	JB	0.0184	5.48	1
11031	123478-HxCDF	70648-26-9	0.0837	JBQ	0.0221	5.48	1
11031	123678-HxCDF	57117-44-9	0.0816	JB	0.0190	5.48	1
11031	123789-HxCDF	72918-21-9	0.146	JB	0.0276	5.48	1
11031	234678-HxCDF	60851-34-5	0.118	JB	0.0210	5.48	1
11031	1234678-HpCDF	67562-39-4	0.718	JB	0.0161	5.48	1
11031	1234789-HpCDF	55673-89-7	0.0950	J	0.0330	5.48	1
11031	OCDF	39001-02-0	2.08	JB	0.0541	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	101	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	53	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-342-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-342-SA5B-SB-9.0-10.0

LLI Sample # SW 6404554
LLI Group # 1266163
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:55

Submitted: 09/14/2011 09:05
Reported: 10/03/2011 08:54

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

X3406 SDG#: DX134-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-342-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-342-SA5B-SB-9.0-10.0

LLI Sample # SW 6404554
LLI Group # 1266163
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/13/2011 14:55

Submitted: 09/14/2011 09:05
Reported: 10/03/2011 08:54

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

X3406 SDG#: DX134-06

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11265001	09/24/2011 14:37	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11265001	09/22/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11272162401A	09/29/2011 21:46	Scott W Freisher	1

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266163
Reported: 10/03/11 at 08:54 AM

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

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11259162402B	Sample number(s): 6404549								
Moisture Content by 160.3					100		80-120		
Batch number: 11272162401A	Sample number(s): 6404551-6404554								
Moisture Content by 160.3					100		80-120		
Batch number: 11273162401A	Sample number(s): 6404550								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11265001	Sample number(s): 6404549-6404554								
2378-TCDD	0.0455 U	0.0455	1.00	ng/kg	93		67-158		
12378-PeCDD	0.0424 J	0.0328	5.00	ng/kg	94		70-142		
123478-HxCDD	0.0231 J	0.0214	5.00	ng/kg	92		70-164		
123678-HxCDD	0.0260 J	0.0214	5.00	ng/kg	88		76-134		
123789-HxCDD	0.0205 U	0.0205	5.00	ng/kg	89		64-162		
1234678-HpCDD	0.215 J	0.0256	5.00	ng/kg	91		70-140		
OCDD	0.344 J	0.0285	10.0	ng/kg	87		78-144		
2378-TCDF	0.0384 U	0.0384	1.00	ng/kg	96		75-158		
2378-TCDF-Conf	0.0272 U	0.0272	1.00	ng/kg	96		75-158		
12378-PeCDF	0.0374 J	0.0166	5.00	ng/kg	91		80-134		
23478-PeCDF	0.0416 J	0.0166	5.00	ng/kg	89		68-160		
123478-HxCDF	0.0454 J	0.0180	5.00	ng/kg	89		72-134		
123678-HxCDF	0.0212 J	0.0146	5.00	ng/kg	87		84-130		
123789-HxCDF	0.0431 J	0.0207	5.00	ng/kg	88		78-130		
234678-HxCDF	0.0312 J	0.0159	5.00	ng/kg	89		70-156		
1234678-HpCDF	0.122 J	0.0107	5.00	ng/kg	86		82-122		
1234789-HpCDF	0.0228 U	0.0228	5.00	ng/kg	88		78-138		
OCDF	0.174 J	0.0517	10.0	ng/kg	86		63-170		

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11259162402B	Sample number(s): 6404549			BKG: P404352					
Moisture Content by 160.3						3.0	2.9	2	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266163
Reported: 10/03/11 at 08:54 AM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11272162401A	Sample number(s): 6404551-6404554					BKG: P404514			
Moisture Content by 160.3						6.2	4.9	24*	20
Batch number: 11273162401A	Sample number(s): 6404550					BKG: P404514			
Moisture Content by 160.3						5.0	5.5	11	20

Surrogate Quality Control

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

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11265001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6404549	81	87	77	77	78	81
6404550	71	68	66	77	67	65
6404551	83	95	78	86	81	82
6404552	78	83	77	77	76	84
6404553	86	88	77	81	79	57
6404554	76	84	72	81	72	66
Blank	80	86	72	87	78	72
OPR	74	84	69	80	75	75
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6404549	79	77	73	85	79	82
6404550	100	59	56	76	76	79
6404551	102	76	72	97	85	90
6404552	82	78	71	82	81	81
6404553	94	75	70	89	85	84
6404554	101	61	53	90	81	84
Blank	117	65	60	96	92	94
OPR	104	67	61	90	83	85
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6404549	82	85	85		86	72
6404550	81	81	80	67	79	
6404551	88	92	92	85	97	
6404552	83	84	78	83	85	
6404553	86	89	83	85	91	
6404554	83	83	77	77	91	
Blank	92	99	95	71	95	64
OPR	85	88	87	71	91	71

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266163
Reported: 10/03/11 at 08:54 AM

Surrogate Quality Control

Limits:	28-130	23-140	17-157	24-169	24-185	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Op# 12661163 Sample# 6404549-54

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SS ONLY		SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	
SL-030-SA7-SS-0.0-0.5	09.13.11	1455	SOIL	NONE	1-SS Sleeve			X	X																		
SL-030-SA7-SS-0.0-0.5	09.13.11	1455	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	X	X											
SL-034-SA7-SS-0.0-0.5	09.13.11	1215	SOIL	NONE	1-SS Sleeve			X	X																		
SL-034-SA7-SS-0.0-0.5	09.13.11	1215	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											
SL-035-SA7-SS-0.0-0.5	09.13.11	1405	SOIL	NONE	1-SS Sleeve			X	X																		
SL-035-SA7-SS-0.0-0.5	09.13.11	1405	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											
SL-037-SA7-SS-0.0-0.5	09.13.11	1015	SOIL	NONE	1-SS Sleeve			X	X																		
SL-037-SA7-SS-0.0-0.5	09.13.11	1015	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X					X	X	X			
SL-040-SA7-SS-0.0-0.5	09.13.11	0846	SOIL	NONE	1-SS Sleeve			X	X																		
SL-040-SA7-SS-0.0-0.5	09.13.11	0846	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											
SL-041-SA7-SS-0.0-0.5	09.13.11	0909	SOIL	NONE	1-SS Sleeve			X	X																		
SL-041-SA7-SS-0.0-0.5	09.13.11	0909	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X					X	X	X			
SL-070-SA7-SS-0.0-0.5	09.13.11	1035	SOIL	NONE	1-SS Sleeve			X	X																		
SL-070-SA7-SS-0.0-0.5	09.13.11	1035	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X					X	X	X			
SL-071-SA7-SS-0.0-0.5	09.13.11	0926	SOIL	NONE	1-SS Sleeve			X	X																		
SL-071-SA7-SS-0.0-0.5	09.13.11	0926	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X					X	X	X			
SL-073-SA7-SS-0.0-0.5	09.13.11	1430	SOIL	NONE	1-SS Sleeve			X	X																		
SL-073-SA7-SS-0.0-0.5	09.13.11	1430	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X					X	X	X			
SL-146-SA7-SS-0.0-0.5	09.13.11	1140	SOIL	NONE	1-SS Sleeve			X	X																		
SL-146-SA7-SS-0.0-0.5	09.13.11	1140	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	X	X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	09/13/2011 / 1600	LLT 9/14/11 0905	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No(s)**	
		8754 3341 6573, 6584 0595	

acct# 13013 Ap# 12666163 Sample# 6404549-54.

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 8 (SA8) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Perphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-338-SA5B-SB-7.5	09.13.11	0901	SOIL	NONE	2- Encores										X											
SL-338-SA5B-SB-7.0-8.0	09.13.11	0900	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-341-SA5B-SB-4.5	09.13.11	1144	SOIL	NONE	5- Encores										X											extra encores collected
SL-341-SA5B-SB-4.0-5.0	09.13.11	1143	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-341-SA5B-SB-9.5	09.13.11	1148	SOIL	NONE	2- Encores										X											
SL-341-SA5B-SB-9.0-10.0	09.13.11	1147	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-342-SA5B-SB-4.5	09.13.11	1451	SOIL	NONE	2- Encores										X											
SL-342-SA5B-SB-4.0-5.0	09.13.11	1450	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-342-SA5B-SB-9.5	09.13.11	1456	SOIL	NONE	2- Encores										X											
SL-342-SA5B-SB-9.0-10.0	09.13.11	1455	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
TB-091311	09.13.11	0900	WATER	NONE	2-10mL vials										X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	09/13/2011 / 1600	Mary Hark LLI 9/14/11 0905	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No(s):	
		8754 3341 6573, 6584 6595	

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

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

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

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

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

October 05, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/15/2011
Group Number: 1266447
SDG: DE243
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-024-SA7-SS-0.0-0.5 Soil	6406188
SL-028-SA7-SS-0.0-0.5 Soil	6406189
SL-029-SA7-SS-0.0-0.5 Soil	6406190
SL-032-SA7-SS-0.0-0.5 Soil	6406191
SL-033-SA7-SS-0.0-0.5 Soil	6406192
SL-036-SA7-SS-0.0-0.5 Soil	6406193
SL-038-SA7-SS-0.0-0.5 Soil	6406194
SL-039-SA7-SS-0.0-0.5 Soil	6406195
SL-076-SA7-SS-0.0-0.5 Soil	6406196
SL-077-SA7-SS-0.0-0.5 Soil	6406197
SL-078-SA7-SS-0.0-0.5 Soil	6406198
SL-099-SA7-SS-0.0-0.5 Soil	6406199
SL-144-SA7-SS-0.0-0.5 Soil	6406200
SL-145-SA7-SS-0.0-0.5 Soil	6406201
SL-183-SA7-SS-0.0-0.5 Soil	6406202
SL-339-SA5B-SB-9.0-10.0 Soil	6406203
SL-340-SA5B-SB-9.0-10.0 Soil	6406204
SL-041-SA7-SB-4.0-5.0 Soil	6406205
SL-071-SA7-SB-4.0-5.0 Soil	6406206
TB-091411 Water	6406207
EB-SA7-SS-091411 Water	6406208

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

Lancaster Laboratories

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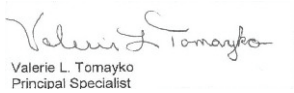
Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

1 COPY TO Data Package Group

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

Respectfully Submitted,



Valerie L. Tomayko
Principal Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA7-SS-0.0-0.5

LLI Sample # SW 6406188
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 11:00

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4301 SDG#: DE243-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1

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

Sample Description: **SL-024-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA7-SS-0.0-0.5

LLI Sample # SW 6406188
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 11:00

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4301 SDG#: DE243-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.36	J	0.34	1.7		1
10138	Anthracene	120-12-7	0.73	J	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	2.1		0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	2.0		0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	7.6		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	1.9		0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	1.8		0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.3	J	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	5.1		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	64		6.0	18		1
10138	Fluoranthene	206-44-0	9.1		0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.2	J	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.75	J	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	10	J	6.0	18		1
10138	Phenanthrene	85-01-8	4.4		0.67	1.7		1
10138	Pyrene	129-00-0	7.5		0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	2.4	U	2.4	7.3		1
10401	Dalapon	75-99-0	8.9	U	8.9	18		1
10401	2,4-DB	94-82-6	26	U	26	26		1
10401	Dicamba	1918-00-9	0.81	U	0.81	2.4		1
10401	Dinoseb	88-85-7	1.6	U	1.6	4.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	1.6	U	1.6	3.4		1
10401	MCPA	94-74-6	150	U	150	500		1
10401	MCPP (Mecoprop)	93-65-2	310	U	310	500		1
10401	2,4,5-T	93-76-5	0.17	U	0.17	0.34		1
10401	2,4,5-TP	93-72-1	0.15	U	0.15	0.34		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							

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Sample Description: SL-024-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA7-SS-0.0-0.5

LLI Sample # SW 6406188
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 11:00

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4301 SDG#: DE243-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	Reporting limits were raised due to interference from the sample matrix.							
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.1	U	2.1	5.1		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	1.8	J	0.80	3.4		1
01363	p,p-DDD	72-54-8	0.066	U	0.066	0.34		1
01363	p,p-DDE	72-55-9	0.50		0.066	0.34		1
01363	p,p-DDT	50-29-3	1.0		0.066	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.066	U	0.066	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.066	U	0.066	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34		1
01363	Endrin	72-20-8	0.066	U	0.066	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.14	U	0.14	0.34		1
01363	Endrin Ketone	53494-70-5	0.066	U	0.066	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.039	U	0.039	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.23	U	0.23	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.6		1
	Maintenance and a new calibration was performed prior to the analysis of the samples. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site.							
	The TCX surrogate recovery for the associated method blank is outside the client specified limits of 50-130 at 41%. Since the recovery is within our in-house statistical limits of 28-128, the data is reported.							
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	3.6		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	5.9		0.33	1.7		1
10225	PCB-1260	11096-82-5	4.2		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1

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Sample Description: SL-024-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA7-SS-0.0-0.5

LLI Sample # SW 6406188
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 11:00

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4301 SDG#: DE243-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	0.59	J	0.40	1.2		1
10199	EFH (C21-C30)	n.a.	6.1		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	15		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.40	U	0.40	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,600		6.06	20.0		1
07914	Boron	7440-42-8	3.97	J	0.360	5.01		1
01650	Calcium	7440-70-2	2,560		2.50	20.0		1
01654	Iron	7439-89-6	16,300		2.61	20.0		1
01656	Lithium	7439-93-2	26.0		0.62	2.0		1
01657	Magnesium	7439-95-4	4,100		0.440	10.0		1
06958	Manganese	7439-96-5	278		0.0360	0.501		1
10145	Phosphorus	7723-14-0	342		0.350	10.0		1
01662	Potassium	7440-09-7	2,750		11.3	50.1		1
01667	Sodium	7440-23-5	83.2	J	5.96	100		1
07968	Strontium	7440-24-6	17.8		0.0250	0.501		1
06969	Tin	7440-31-5	3.11	J	0.320	10.0		1
06970	Titanium	7440-32-6	1,120		0.0711	1.00		1
10146	Zirconium	7440-67-7	2.43	J	0.461	5.01		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.204		0.0734	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.51		0.0793	0.397		2
06126	Barium	7440-39-3	103		0.105	0.397		2

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Sample Description: **SL-024-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA7-SS-0.0-0.5

LLI Sample # SW 6406188
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 11:00

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4301 SDG#: DE243-01

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium		7440-41-7	0.682		0.0159	0.0991		2
06128	Cadmium		7440-43-9	0.210		0.0436	0.0991		2
06131	Chromium		7440-47-3	17.4		0.119	0.397		2
06132	Cobalt		7440-48-4	5.83		0.0198	0.0991		2
06133	Copper		7440-50-8	9.12		0.0793	0.397		2
06135	Lead		7439-92-1	15.9		0.0101	0.198		2
06138	Molybdenum		7439-98-7	0.734		0.0496	0.0991		2
06139	Nickel		7440-02-0	12.5		0.0991	0.397		2
06141	Selenium		7782-49-2	0.208	J	0.0575	0.397		2
06142	Silver		7440-22-4	0.0473	J	0.0141	0.0991		2
06145	Thallium		7440-28-0	0.340		0.0297	0.0991		2
06148	Vanadium		7440-62-2	34.9		0.0218	0.0991		2
06149	Zinc		7440-66-6	74.5		0.555	2.97		2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0177	J	0.0068	0.0973		1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	0.80	U	0.80	1.0		1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	9.1	U	9.1	30.3		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.60	J	0.20	1.0		1
		SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B		57-12-5	0.18	U	0.18	0.50		1
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C		n.a.	6.28		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	1.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

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

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Sample Description: **SL-024-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA7-SS-0.0-0.5

LLI Sample # SW 6406188
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 11:00

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4301 SDG#: DE243-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11262SLD026	09/21/2011 07:02	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11262SLE026	09/23/2011 12:26	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11262SLE026	09/20/2011 06:50	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11262SLD026	09/20/2011 06:30	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670005A	09/27/2011 18:07	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112600024A	09/19/2011 16:51	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112630031A	09/24/2011 12:34	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670023A	09/28/2011 11:39	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112630031A	09/21/2011 07:50	Katheryne V Sponheimer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	112670023A	09/27/2011 10:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	112670005A	09/26/2011 21:35	Elaine F Stoltzfus	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112600024A	09/19/2011 09:20	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112580039A	09/17/2011 01:27	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620009A	09/20/2011 14:36	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112630011A	09/21/2011 00:21	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112640002A	09/23/2011 00:01	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112640002A	09/21/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112630011A	09/20/2011 15:00	Wanda F Oswald	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112580039A	09/16/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620009A	09/19/2011 09:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112595708002	09/24/2011 13:44	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112595708002	09/24/2011 13:44	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112595708002	09/24/2011 13:44	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112595708002	09/24/2011 13:44	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112595708002	09/24/2011 13:44	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112595708002	09/26/2011 20:22	John P Hook	1
06958	Manganese	SW-846 6010B	1	112595708002	09/24/2011 13:44	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112595708002	09/24/2011 13:44	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112595708002	09/24/2011 13:44	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112595708002	09/24/2011 13:44	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112595708002	09/24/2011 13:44	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112595708002	09/24/2011 13:44	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112595708002	09/24/2011 13:44	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112595708002	09/24/2011 13:44	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112591026001A	09/19/2011 09:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112591026001A	09/19/2011 09:33	Choon Y Tian	2

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Sample Description: **SL-024-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA7-SS-0.0-0.5

LLI Sample # SW 6406188
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 11:00

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4301 SDG#: DE243-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112591026001D	09/19/2011 09:33	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112591026001A	09/19/2011 09:33	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112591026001A	09/19/2011 09:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112591026001A	09/19/2011 09:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112591026001A	09/19/2011 09:33	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112591026001A	09/19/2011 09:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112591026001A	09/19/2011 09:33	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112591026001C	09/19/2011 09:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112591026001A	09/19/2011 09:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112591026001B	09/19/2011 09:33	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112591026001A	09/19/2011 09:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112591026001A	09/19/2011 09:33	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112591026001A	09/19/2011 09:33	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112591026001A	09/19/2011 09:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112595711003	09/19/2011 09:33	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112595708002	09/18/2011 20:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112591026001	09/18/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112595711003	09/18/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11263263201A	09/21/2011 20:37	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11259621203A	09/16/2011 17:31	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11269243202A	09/27/2011 13:57	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11263102201A	09/20/2011 18:59	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11263263201A	09/20/2011 06:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11259621203A	09/16/2011 07:23	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11263102201A	09/20/2011 16:00	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11265039403A	09/22/2011 11:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11269243202A	09/26/2011 10:05	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162401A	09/20/2011 19:37	Scott W Freisher	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-028-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA7-SS-0.0-0.5

LLI Sample # SW 6406189
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 07:35

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4302 SDG#: DE243-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1

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Sample Description: **SL-028-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA7-SS-0.0-0.5

LLI Sample # SW 6406189
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 07:35

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4302 SDG#: DE243-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.38	J	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	2.2		0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	1.9		0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	4.5		0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	1.6	J	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	1.4	J	0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	2.9		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	12	J	6.1	18		1
10138	Fluoranthene	206-44-0	4.0		0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.3	J	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	1.6	J	0.68	1.7		1
10138	Pyrene	129-00-0	2.8		0.68	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	4.6		0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.20	U	0.20	0.20		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							

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

Sample Description: **SL-028-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA7-SS-0.0-0.5

LLI Sample # SW 6406189
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 07:35

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4302 SDG#: DE243-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Reporting limits were raised due to interference from the sample matrix.								
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.33	U	0.33	0.84		5
01363	Alpha BHC	319-84-6	0.17	U	0.17	0.84		5
01363	Beta BHC	319-85-7	0.30	U	0.30	0.84		5
01363	Gamma BHC - Lindane	58-89-9	0.17	U	0.17	0.84		5
01363	Chlordane	57-74-9	4.1	U	4.1	17		5
01363	p,p-DDD	72-54-8	0.53	U	0.53	1.7		5
01363	p,p-DDE	72-55-9	1.6	U	1.6	1.7		5
01363	p,p-DDT	50-29-3	4.6	J	1.3	6.9		20
01363	Delta BHC	319-86-8	0.18	U	0.18	0.84		5
01363	Dieldrin	60-57-1	0.46	U	0.46	1.7		5
01363	Endosulfan I	959-98-8	0.22	U	0.22	0.84		5
01363	Endosulfan II	33213-65-9	0.50	U	0.50	1.7		5
01363	Endosulfan Sulfate	1031-07-8	0.33	U	0.33	1.7		5
01363	Endrin	72-20-8	0.49	U	0.49	1.7		5
01363	Endrin Aldehyde	7421-93-4	0.33	U	0.33	1.7		5
01363	Endrin Ketone	53494-70-5	0.33	U	0.33	1.7		5
01363	Heptachlor	76-44-8	0.30	U	0.30	0.84		5
01363	Heptachlor Epoxide	1024-57-3	0.76	U	0.76	0.84		5
01363	Methoxychlor	72-43-5	1.7	U	1.7	8.4		5
01363	Mirex	2385-85-5	0.60	U	0.60	1.7		5
01363	Toxaphene	8001-35-2	35	U	35	35		5

Maintenance and a new calibration was performed prior to the analysis of the samples. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site.

The TCX surrogate recovery for the associated method blank is outside the client specified limits of 50-130 at 41%. Since the recovery is within our in-house statistical limits of 28-128, the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	22		1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	12		0.34	1.7		1
10225	PCB-1260	11096-82-5	8.2		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	11,300		6.06	20.0		1

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

Sample Description: **SL-028-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA7-SS-0.0-0.5

LLI Sample # SW 6406189
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 07:35

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4302 SDG#: DE243-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	6.20		0.361	5.01		1
01650	Calcium	7440-70-2	3,520		2.50	20.0		1
01654	Iron	7439-89-6	18,600		2.61	20.0		1
01656	Lithium	7439-93-2	12.3		0.62	2.0		1
01657	Magnesium	7439-95-4	4,110		0.441	10.0		1
06958	Manganese	7439-96-5	309		0.0361	0.501		1
10145	Phosphorus	7723-14-0	599		0.350	10.0		1
01662	Potassium	7440-09-7	3,280		11.3	50.1		1
01667	Sodium	7440-23-5	165		5.96	100		1
07968	Strontium	7440-24-6	37.3		0.0250	0.501		1
06969	Tin	7440-31-5	2.66	J	0.320	10.0		1
06970	Titanium	7440-32-6	1,160		0.0711	1.00		1
10146	Zirconium	7440-67-7	4.12	J	0.461	5.01		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.112	J	0.0727	0.196		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	2.67		0.0786	0.393		2
06126	Barium	7440-39-3	106		0.104	0.393		2
06127	Beryllium	7440-41-7	0.313		0.0157	0.0982		2
06128	Cadmium	7440-43-9	0.255		0.0432	0.0982		2
06131	Chromium	7440-47-3	14.5		0.118	0.393		2
06132	Cobalt	7440-48-4	6.65		0.0196	0.0982		2
06133	Copper	7440-50-8	13.4		0.0786	0.393		2
06135	Lead	7439-92-1	15.0		0.0100	0.196		2
06138	Molybdenum	7439-98-7	0.573		0.0491	0.0982		2
06139	Nickel	7440-02-0	10.0		0.0982	0.393		2
06141	Selenium	7782-49-2	0.0791	J	0.0570	0.393		2
06142	Silver	7440-22-4	0.0389	J	0.0139	0.0982		2
06145	Thallium	7440-28-0	0.175		0.0295	0.0982		2
06148	Vanadium	7440-62-2	41.1		0.0216	0.0982		2
06149	Zinc	7440-66-6	140		0.550	2.95		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0543	J	0.0072	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1

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

Sample Description: **SL-028-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA7-SS-0.0-0.5

LLI Sample # SW 6406189
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 07:35

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4302 SDG#: DE243-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.56	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11262SLD026	09/21/2011 08:12	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11262SLE026	09/23/2011 10:47	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11262SLE026	09/20/2011 06:50	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11262SLD026	09/20/2011 06:30	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112630003A	09/22/2011 00:44	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112630031A	09/24/2011 20:03	Melissa McDermott	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	112630031A	09/24/2011 20:17	Melissa McDermott	20
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112630022A	09/22/2011 17:06	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112630031A	09/21/2011 07:50	Katheryne V Sponheimer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112630022A	09/21/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112630003A	09/20/2011 22:00	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112595708002	09/24/2011 14:07	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112595708002	09/24/2011 14:07	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112595708002	09/24/2011 14:07	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112595708002	09/24/2011 14:07	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112595708002	09/24/2011 14:07	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112595708002	09/26/2011 20:47	John P Hook	1
06958	Manganese	SW-846 6010B	1	112595708002	09/24/2011 14:07	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112595708002	09/24/2011 14:07	Eric L Eby	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-028-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA7-SS-0.0-0.5

LLI Sample # SW 6406189
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 07:35

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4302 SDG#: DE243-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	112595708002	09/24/2011 14:07	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112595708002	09/24/2011 14:07	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112595708002	09/24/2011 14:07	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112595708002	09/24/2011 14:07	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112595708002	09/24/2011 14:07	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112595708002	09/24/2011 14:07	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112591026001A	09/19/2011 09:52	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112591026001A	09/19/2011 09:52	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112591026001D	09/19/2011 09:52	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112591026001A	09/19/2011 09:52	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112591026001A	09/19/2011 09:52	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112591026001A	09/19/2011 09:52	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112591026001A	09/19/2011 09:52	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112591026001A	09/19/2011 09:52	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112591026001A	09/19/2011 09:52	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112591026001C	09/19/2011 09:52	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112591026001A	09/19/2011 09:52	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112591026001B	09/19/2011 09:52	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112591026001A	09/19/2011 09:52	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112591026001A	09/19/2011 09:52	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112591026001A	09/19/2011 09:52	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112591026001A	09/19/2011 09:52	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112595711003	09/19/2011 10:45	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112595708002	09/18/2011 20:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112591026001	09/18/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112595711003	09/18/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11263263201A	09/21/2011 21:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11259621203A	09/16/2011 23:17	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11269243202A	09/27/2011 14:05	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11263263201A	09/20/2011 06:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11259621203A	09/16/2011 07:23	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11265039403A	09/22/2011 11:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11269243202A	09/26/2011 10:05	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162401A	09/20/2011 19:37	Scott W Freisher	1

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

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Analysis Report

Sample Description: SL-029-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA7-SS-0.0-0.5

LLI Sample # SW 6406190
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 07:55

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4303 SDG#: DE243-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170		1
04688	4-Chloroaniline	106-47-8	66	U	66	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	330		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170		1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	66	U	66	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	33	U	33	170		1
04688	4-Methylphenol	106-44-5	33	U	33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	33	U	33	170		1
04688	4-Nitroaniline	100-01-6	66	U	66	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1

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

Sample Description: **SL-029-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA7-SS-0.0-0.5

LLI Sample # SW 6406190
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 07:55

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4303 SDG#: DE243-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.68	U	0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.68	U	0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.68	U	0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.68	U	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.68	U	0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	0.45	J	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.1	U	6.1	18		1
10138	Fluoranthene	206-44-0	0.68	U	0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	0.68	U	0.68	1.7		1
10138	Pyrene	129-00-0	0.68	U	0.68	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	0.97	U	0.97	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.20	U	0.20	0.20		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

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

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

Sample Description: **SL-029-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA7-SS-0.0-0.5

LLI Sample # SW 6406190
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 07:55

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4303 SDG#: DE243-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	Reporting limits were raised due to interference from the sample matrix.							
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.62	U	0.62	0.62		1
01363	p,p-DDE	72-55-9	2.4		0.33	1.7		5
01363	p,p-DDT	50-29-3	10		0.33	1.7		5
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.28	U	0.28	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.28	U	0.28	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.096	U	0.096	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.43	U	0.43	0.43		1
01363	Toxaphene	8001-35-2	16	U	16	16		1
	Maintenance and a new calibration was performed prior to the analysis of the samples. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site.							
	The TCX surrogate recovery for the associated method blank is outside the client specified limits of 50-130 at 41%. Since the recovery is within our in-house statistical limits of 28-128, the data is reported.							
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	13		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	3.6		0.33	1.7		1
10225	PCB-1260	11096-82-5	2.5		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1

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

Sample Description: **SL-029-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA7-SS-0.0-0.5

LLI Sample # SW 6406190
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 07:55

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4303 SDG#: DE243-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,400		6.07	20.1		1
07914	Boron	7440-42-8	4.63	J	0.361	5.02		1
01650	Calcium	7440-70-2	3,650		2.51	20.1		1
01654	Iron	7439-89-6	20,100		2.62	20.1		1
01656	Lithium	7439-93-2	17.5		0.62	2.0		1
01657	Magnesium	7439-95-4	4,480		0.441	10.0		1
06958	Manganese	7439-96-5	314		0.0361	0.502		1
10145	Phosphorus	7723-14-0	609		0.351	10.0		1
01662	Potassium	7440-09-7	3,120		11.3	50.2		1
01667	Sodium	7440-23-5	160		5.97	100		1
07968	Strontium	7440-24-6	35.3		0.0251	0.502		1
06969	Tin	7440-31-5	2.84	J	0.321	10.0		1
06970	Titanium	7440-32-6	1,200		0.0712	1.00		1
10146	Zirconium	7440-67-7	2.26	J	0.461	5.02		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0949	J	0.0742	0.201		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.94		0.0803	0.401		2
06126	Barium	7440-39-3	120		0.106	0.401		2
06127	Beryllium	7440-41-7	0.403		0.0161	0.100		2
06128	Cadmium	7440-43-9	0.181		0.0441	0.100		2
06131	Chromium	7440-47-3	16.1		0.120	0.401		2
06132	Cobalt	7440-48-4	7.56		0.0201	0.100		2
06133	Copper	7440-50-8	13.4		0.0803	0.401		2
06135	Lead	7439-92-1	10.1		0.0102	0.201		2
06138	Molybdenum	7439-98-7	0.578		0.0502	0.100		2
06139	Nickel	7440-02-0	10.6		0.100	0.401		2
06141	Selenium	7782-49-2	0.124	J	0.0582	0.401		2
06142	Silver	7440-22-4	0.0266	J	0.0142	0.100		2
06145	Thallium	7440-28-0	0.204		0.0301	0.100		2
06148	Vanadium	7440-62-2	41.5		0.0221	0.100		2
06149	Zinc	7440-66-6	193		1.40	7.52		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0417	J	0.0067	0.0954		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.48	J	0.20	1.0		1

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

Sample Description: **SL-029-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA7-SS-0.0-0.5

LLI Sample # SW 6406190
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 07:55

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4303 SDG#: DE243-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.89	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.3	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11262SLD026	09/21/2011	08:36	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11262SLE026	09/23/2011	13:00	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11262SLE026	09/20/2011	06:50	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11262SLD026	09/20/2011	06:30	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112630003A	09/22/2011	01:12	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112630031A	09/24/2011	17:15	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112630031A	09/24/2011	17:29	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112630022A	09/22/2011	18:03	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112630031A	09/21/2011	07:50	Katheryne V Sponheimer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112630022A	09/21/2011	10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112630003A	09/20/2011	22:00	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112595708002	09/24/2011	14:19	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112595708002	09/24/2011	14:19	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112595708002	09/24/2011	14:19	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112595708002	09/24/2011	14:19	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112595708002	09/24/2011	14:19	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112595708002	09/26/2011	20:51	John P Hook	1
06958	Manganese	SW-846 6010B	1	112595708002	09/24/2011	14:19	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112595708002	09/24/2011	14:19	Eric L Eby	1

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Sample Description: **SL-029-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA7-SS-0.0-0.5

LLI Sample # SW 6406190
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 07:55

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4303 SDG#: DE243-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	112595708002	09/24/2011 14:19	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112595708002	09/24/2011 14:19	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112595708002	09/24/2011 14:19	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112595708002	09/24/2011 14:19	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112595708002	09/24/2011 14:19	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112595708002	09/24/2011 14:19	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112591026001A	09/19/2011 09:55	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112591026001A	09/19/2011 09:55	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112591026001D	09/19/2011 09:55	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112591026001A	09/19/2011 09:55	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112591026001A	09/19/2011 09:55	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112591026001A	09/19/2011 09:55	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112591026001A	09/19/2011 09:55	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112591026001A	09/19/2011 09:55	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112591026001A	09/19/2011 09:55	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112591026001C	09/19/2011 09:55	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112591026001A	09/19/2011 09:55	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112591026001B	09/19/2011 09:55	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112591026001A	09/19/2011 09:55	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112591026001A	09/19/2011 09:55	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112591026001A	09/19/2011 09:55	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112591026001A	09/20/2011 20:32	David K Beck	5
00159	Mercury	SW-846 7471A	1	112595711003	09/19/2011 10:46	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112595708002	09/18/2011 20:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112591026001	09/18/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112595711003	09/18/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11263263201A	09/21/2011 21:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11259621203A	09/16/2011 19:03	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11269243202A	09/27/2011 14:26	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11263263201A	09/20/2011 06:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11259621203A	09/16/2011 07:23	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11265039403A	09/22/2011 11:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11269243202A	09/26/2011 10:05	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162401A	09/20/2011 19:37	Scott W Freisher	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-032-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA7-SS-0.0-0.5

LLI Sample # SW 6406191
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 15:10

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4304 SDG#: DE243-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	166	U	166	331		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzo(g,h,i)perylene	191-24-2	18	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	330		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170		1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	91	J	17	330		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	33	U	33	170		1
04688	4-Methylphenol	106-44-5	33	U	33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	33	U	33	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1

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

Sample Description: SL-032-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA7-SS-0.0-0.5

LLI Sample # SW 6406191
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 15:10

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4304 SDG#: DE243-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	6.7	U	6.7	17		10
10138	Acenaphthylene	208-96-8	3.4	U	3.4	17		10
10138	Anthracene	120-12-7	3.4	U	3.4	17		10
10138	Benzo(a)anthracene	56-55-3	6.7	U	6.7	17		10
10138	Benzo(a)pyrene	50-32-8	9.6	J	6.7	17		10
10138	Benzo(b)fluoranthene	205-99-2	33		6.7	17		10
10138	Benzo(k)fluoranthene	207-08-9	6.7	U	6.7	17		10
10138	Chrysene	218-01-9	31		3.4	17		10
10138	Dibenz(a,h)anthracene	53-70-3	6.7	U	6.7	17		10
10138	Fluoranthene	206-44-0	11	J	6.7	17		10
10138	Fluorene	86-73-7	6.7	U	6.7	17		10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	6.7	U	6.7	17		10
10138	1-Methylnaphthalene	90-12-0	6.7	U	6.7	17		10
10138	2-Methylnaphthalene	91-57-6	6.7	U	6.7	17		10
10138	Naphthalene	91-20-3	6.7	U	6.7	17		10
10138	N-Nitrosodimethylamine	62-75-9	6.7	U	6.7	17		10
10138	Phenanthrene	85-01-8	6.7	U	6.7	17		10
10138	Pyrene	129-00-0	8.7	J	6.7	17		10
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	40	U	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1

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

Sample Description: **SL-032-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA7-SS-0.0-0.5

LLI Sample # SW 6406191
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 15:10

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4304 SDG#: DE243-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	40	U	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	40	U	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	40	U	40	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	40	U	40	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	50	U	50	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	40	U	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	40	U	40	120	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	7.9	U	7.9	7.9		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1
10401	MCPA	94-74-6	76	U	76	250		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.38	U	0.38	0.38		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. Reporting limits were raised due to interference from the sample matrix.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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

Sample Description: SL-032-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA7-SS-0.0-0.5

LLI Sample # SW 6406191
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 15:10

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4304 SDG#: DE243-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.33	U	0.33	0.84		5
01363	Alpha BHC	319-84-6	0.17	U	0.17	0.84		5
01363	Beta BHC	319-85-7	0.30	U	0.30	0.84		5
01363	Gamma BHC - Lindane	58-89-9	0.17	U	0.17	0.84		5
01363	Chlordane	57-74-9	4.5	J	4.0	17		5
01363	p,p-DDD	72-54-8	0.39	U	0.39	1.7		5
01363	p,p-DDE	72-55-9	2.7		0.33	1.7		5
01363	p,p-DDT	50-29-3	7.0		0.33	1.7		5
01363	Delta BHC	319-86-8	0.18	U	0.18	0.84		5
01363	Dieldrin	60-57-1	2.8	U	2.8	2.8		5
01363	Endosulfan I	959-98-8	0.22	U	0.22	0.84		5
01363	Endosulfan II	33213-65-9	0.40	U	0.40	1.7		5
01363	Endosulfan Sulfate	1031-07-8	0.33	U	0.33	1.7		5
01363	Endrin	72-20-8	0.33	U	0.33	1.7		5
01363	Endrin Aldehyde	7421-93-4	0.44	U	0.44	1.7		5
01363	Endrin Ketone	53494-70-5	0.33	U	0.33	1.7		5
01363	Heptachlor	76-44-8	0.30	U	0.30	0.84		5
01363	Heptachlor Epoxide	1024-57-3	0.34	U	0.34	0.84		5
01363	Methoxychlor	72-43-5	1.7	U	1.7	8.4		5
01363	Mirex	2385-85-5	0.41	U	0.41	1.7		5
01363	Toxaphene	8001-35-2	11	U	11	33		5

Maintenance and a new calibration was performed prior to the analysis of the samples. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site.

The TCX surrogate recovery for the associated method blank is outside the client specified limits of 50-130 at 41%. Since the recovery is within our in-house statistical limits of 28-128, the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	23		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	25		0.33	1.7		1
10225	PCB-1260	11096-82-5	9.7		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1

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Sample Description: **SL-032-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA7-SS-0.0-0.5

LLI Sample # SW 6406191
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 15:10

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4304 SDG#: DE243-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Methanol	67-56-1	100	U	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	10	U	10	30		25
10199	EFH (C15-C20)	n.a.	10	U	10	30		25
10199	EFH (C21-C30)	n.a.	120		10	30		25
10199	EFH (C30 - C40)	n.a.	420		10	30		25
10199	EFH (C8-C11)	n.a.	10	U	10	30		25
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,600		6.11	20.2		1
07914	Boron	7440-42-8	3.45	J	0.363	5.05		1
01650	Calcium	7440-70-2	3,190		2.52	20.2		1
01654	Iron	7439-89-6	15,900		2.64	20.2		1
01656	Lithium	7439-93-2	19.5		0.63	2.0		1
01657	Magnesium	7439-95-4	4,210		0.444	10.1		1
06958	Manganese	7439-96-5	239		0.0363	0.505		1
10145	Phosphorus	7723-14-0	529		0.353	10.1		1
01662	Potassium	7440-09-7	3,240		11.4	50.5		1
01667	Sodium	7440-23-5	130		6.01	101		1
07968	Strontium	7440-24-6	15.5		0.0252	0.505		1
06969	Tin	7440-31-5	2.76	J	0.323	10.1		1
06970	Titanium	7440-32-6	1,010		0.0717	1.01		1
10146	Zirconium	7440-67-7	2.29	J	0.464	5.05		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.344		0.0718	0.194		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.30		0.0777	0.388		2
06126	Barium	7440-39-3	88.6		0.103	0.388		2
06127	Beryllium	7440-41-7	0.500		0.0155	0.0971		2
06128	Cadmium	7440-43-9	0.305		0.0427	0.0971		2

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Sample Description: SL-032-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA7-SS-0.0-0.5

LLI Sample # SW 6406191
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 15:10

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4304 SDG#: DE243-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	68.1		0.116	0.388		2
06132	Cobalt	7440-48-4	7.21		0.0194	0.0971		2
06133	Copper	7440-50-8	12.2		0.0777	0.388		2
06135	Lead	7439-92-1	27.2		0.0099	0.194		2
06138	Molybdenum	7439-98-7	1.91		0.0485	0.0971		2
06139	Nickel	7440-02-0	36.4		0.0971	0.388		2
06141	Selenium	7782-49-2	0.151	J	0.0563	0.388		2
06142	Silver	7440-22-4	0.0836	J	0.0138	0.0971		2
06145	Thallium	7440-28-0	0.241		0.0291	0.0971		2
06148	Vanadium	7440-62-2	39.4		0.0214	0.0971		2
06149	Zinc	7440-66-6	100		0.544	2.91		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0810	J	0.0068	0.0970		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80	U	0.80	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.1	J	0.80	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.49		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.98		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.95		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

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

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Sample Description: **SL-032-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA7-SS-0.0-0.5

LLI Sample # SW 6406191
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 15:10

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

E4304 SDG#: DE243-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11265SLB026	09/29/2011 16:53	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11262SLD026	09/21/2011 08:59	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11262SLE026	09/23/2011 13:33	Mark A Clark	10
11630	NDMA Soil Microwave	SW-846 3546	1	11265SLB026	09/23/2011 10:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11262SLE026	09/20/2011 06:50	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11262SLD026	09/20/2011 06:30	Katheryne V Sponheimer	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112640025A	09/24/2011 08:00	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112620004A	09/21/2011 20:25	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112630003A	09/22/2011 01:39	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112630031A	09/24/2011 18:12	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112630022A	09/22/2011 18:21	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112630031A	09/21/2011 07:50	Katheryne V Sponheimer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112630022A	09/21/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112630003A	09/20/2011 22:00	Elaine F Stoltzfus	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112620004A	09/19/2011 17:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112640025A	09/22/2011 11:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112580039A	09/17/2011 01:41	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620010A	09/20/2011 16:45	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112630011A	09/21/2011 04:47	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112640002A	09/28/2011 05:27	Heather E Williams	25
11238	EFH Extraction - Soils	SW-846 3550B	1	112640002A	09/21/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112630011A	09/20/2011 15:00	Wanda F Oswald	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112580039A	09/16/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620010A	09/19/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112595708002	09/24/2011 14:23	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112595708002	09/24/2011 14:23	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112595708002	09/24/2011 14:23	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112595708002	09/24/2011 14:23	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112595708002	09/24/2011 14:23	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112595708002	09/26/2011 21:03	John P Hook	1
06958	Manganese	SW-846 6010B	1	112595708002	09/24/2011 14:23	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112595708002	09/24/2011 14:23	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112595708002	09/24/2011 14:23	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112595708002	09/24/2011 14:23	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112595708002	09/24/2011 14:23	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112595708002	09/24/2011 14:23	Eric L Eby	1

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Sample Description: **SL-032-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA7-SS-0.0-0.5

LLI Sample # SW 6406191
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 15:10

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4304 SDG#: DE243-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112595708002	09/24/2011 14:23	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112595708002	09/24/2011 14:23	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112591026001A	09/19/2011 10:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112591026001A	09/19/2011 10:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112591026001D	09/19/2011 10:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112591026001A	09/19/2011 10:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112591026001A	09/19/2011 10:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112591026001A	09/19/2011 10:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112591026001A	09/19/2011 10:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112591026001A	09/19/2011 10:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112591026001A	09/19/2011 10:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112591026001C	09/19/2011 10:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112591026001A	09/19/2011 10:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112591026001B	09/19/2011 10:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112591026001A	09/19/2011 10:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112591026001A	09/19/2011 10:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112591026001A	09/19/2011 10:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112591026001A	09/19/2011 10:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112595711003	09/19/2011 10:48	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112595708002	09/18/2011 20:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112591026001	09/18/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112595711003	09/18/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11263263201A	09/21/2011 19:58	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11263263201A	09/21/2011 19:58	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11259621203A	09/16/2011 19:26	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11269243202A	09/27/2011 14:33	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11263102201A	09/20/2011 19:02	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11263263201A	09/20/2011 06:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11259621203A	09/16/2011 07:23	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11263102201A	09/20/2011 16:00	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11265039403A	09/22/2011 11:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11269243202A	09/26/2011 10:05	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11272162401A	09/29/2011 21:46	Scott W Freisher	1

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Lancaster Laboratories

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

Analysis Report

Sample Description: SL-033-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA7-SS-0.0-0.5

LLI Sample # SW 6406192
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 13:35

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4305 SDG#: DE243-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1

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SSFL Area IV Collocated Soil Sampling
SL-033-SA7-SS-0.0-0.5

LLI Sample # SW 6406192
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 13:35

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4305 SDG#: DE243-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.37	J	0.34	1.7		1
10138	Anthracene	120-12-7	0.83	J	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.67	U	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.2	J	0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	0.68	J	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.0	U	6.0	18		1
10138	Fluoranthene	206-44-0	1.2	J	0.67	1.7		1
10138	Fluorene	86-73-7	0.74	J	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	0.96	J	0.67	1.7		1
10138	Pyrene	129-00-0	0.71	J	0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	5.9	U	5.9	5.9		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.22	U	0.22	0.22		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							

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SL-033-SA7-SS-0.0-0.5

LLI Sample # SW 6406192
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Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

E4305 SDG#: DE243-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Reporting limits were raised due to interference from the sample matrix.								
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	1.4	U	1.4	3.4		1
01363	p,p-DDD	72-54-8	0.42	U	0.42	0.42		1
01363	p,p-DDE	72-55-9	3.8		0.33	1.7		5
01363	p,p-DDT	50-29-3	6.9		0.33	1.7		5
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.47	U	0.47	0.47		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.17	U	0.17	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.15	U	0.15	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.21	U	0.21	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.15	U	0.15	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.16	U	0.16	0.34		1
01363	Toxaphene	8001-35-2	20	U	20	20		1

Maintenance and a new calibration was performed prior to the analysis of the samples. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site.

The TCX surrogate recovery for the associated method blank is outside the client specified limits of 50-130 at 41%. The TCX recovery for this sample is outside the client specified limits at 48%. Since the recovery is within our in-house statistical limits of 28-128, the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	5.1	U	5.1	17		5
10225	Aroclor 5442	12642-23-8	5.1	U	5.1	17		5
10225	Aroclor 5460	11126-42-4	25		5.1	17		5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.6		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.6		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.6		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.6		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.6		5
10225	PCB-1254	11097-69-1	20		1.7	8.6		5
10225	PCB-1260	11096-82-5	12		2.0	8.6		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.6		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.6		5
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	

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SSFL Area IV Collocated Soil Sampling
SL-033-SA7-SS-0.0-0.5

LLI Sample # SW 6406192
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Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E4305 SDG#: DE243-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,800		6.02	19.9		1
07914	Boron	7440-42-8	4.82	J	0.358	4.97		1
01650	Calcium	7440-70-2	3,390		2.49	19.9		1
01654	Iron	7439-89-6	18,200		2.60	19.9		1
01656	Lithium	7439-93-2	25.0		0.62	2.0		1
01657	Magnesium	7439-95-4	4,880		0.437	9.94		1
06958	Manganese	7439-96-5	295		0.0358	0.497		1
10145	Phosphorus	7723-14-0	504		0.348	9.94		1
01662	Potassium	7440-09-7	3,940		11.2	49.7		1
01667	Sodium	7440-23-5	90.3	J	5.92	99.4		1
07968	Strontium	7440-24-6	18.9		0.0249	0.497		1
06969	Tin	7440-31-5	2.88	J	0.318	9.94		1
06970	Titanium	7440-32-6	1,180		0.0706	0.994		1
10146	Zirconium	7440-67-7	3.16	J	0.457	4.97		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.337		0.0743	0.201		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.11		0.0803	0.402		2
06126	Barium	7440-39-3	144		0.106	0.402		2
06127	Beryllium	7440-41-7	0.803		0.0161	0.100		2
06128	Cadmium	7440-43-9	0.387		0.0442	0.100		2
06131	Chromium	7440-47-3	26.3		0.120	0.402		2
06132	Cobalt	7440-48-4	7.96		0.0201	0.100		2
06133	Copper	7440-50-8	13.9		0.0803	0.402		2
06135	Lead	7439-92-1	26.1		0.0102	0.201		2
06138	Molybdenum	7439-98-7	0.843		0.0502	0.100		2
06139	Nickel	7440-02-0	17.3		0.100	0.402		2
06141	Selenium	7782-49-2	0.158	J	0.0582	0.402		2
06142	Silver	7440-22-4	0.0712	J	0.0143	0.100		2
06145	Thallium	7440-28-0	0.359		0.0301	0.100		2
06148	Vanadium	7440-62-2	51.6		0.0221	0.100		2
06149	Zinc	7440-66-6	105		0.562	3.01		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0242	J	0.0067	0.0954		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.38	J	0.20	1.0		1

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SSFL Area IV Collocated Soil Sampling
SL-033-SA7-SS-0.0-0.5

LLI Sample # SW 6406192
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E4305 SDG#: DE243-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.17	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.4	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11262SLD026	09/21/2011	09:23	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11262SLE026	09/23/2011	14:06	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11262SLE026	09/20/2011	06:50	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11262SLD026	09/20/2011	06:30	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112630003A	09/22/2011	02:07	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112630031A	09/24/2011	17:43	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112630031A	09/24/2011	17:57	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112630022A	09/22/2011	18:40	Jamie L Brillhart	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112630031A	09/21/2011	07:50	Katheryne V Sponheimer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112630022A	09/21/2011	10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112630003A	09/20/2011	22:00	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112595708002	09/24/2011	14:27	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112595708002	09/24/2011	14:27	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112595708002	09/24/2011	14:27	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112595708002	09/24/2011	14:27	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112595708002	09/24/2011	14:27	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112595708002	09/26/2011	21:07	John P Hook	1
06958	Manganese	SW-846 6010B	1	112595708002	09/24/2011	14:27	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112595708002	09/24/2011	14:27	Eric L Eby	1

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Sample Description: **SL-033-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA7-SS-0.0-0.5

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Chantilly VA 20151

E4305 SDG#: DE243-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	112595708002	09/24/2011 14:27	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112595708002	09/24/2011 14:27	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112595708002	09/24/2011 14:27	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112595708002	09/24/2011 14:27	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112595708002	09/24/2011 14:27	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112595708002	09/24/2011 14:27	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112591026001A	09/19/2011 10:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112591026001A	09/19/2011 10:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112591026001D	09/19/2011 10:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112591026001A	09/19/2011 10:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112591026001A	09/19/2011 10:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112591026001A	09/19/2011 10:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112591026001A	09/19/2011 10:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112591026001A	09/19/2011 10:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112591026001A	09/19/2011 10:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112591026001C	09/19/2011 10:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112591026001A	09/19/2011 10:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112591026001B	09/19/2011 10:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112591026001A	09/19/2011 10:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112591026001A	09/19/2011 10:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112591026001A	09/19/2011 10:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112591026001A	09/19/2011 10:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112595711003	09/19/2011 10:49	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112595708002	09/18/2011 20:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112591026001	09/18/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112595711003	09/18/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11263263201A	09/21/2011 21:43	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11259621203A	09/16/2011 19:49	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11269243202A	09/27/2011 14:48	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11263263201A	09/20/2011 06:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11259621203A	09/16/2011 07:23	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11265039403A	09/22/2011 11:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11269243202A	09/26/2011 10:05	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162401A	09/20/2011 19:37	Scott W Freisher	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-036-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA7-SS-0.0-0.5

LLI Sample # SW 6406193
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 08:40

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4306 SDG#: DE243-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	330		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170		1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	33	U	33	170		1
04688	4-Methylphenol	106-44-5	33	U	33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	33	U	33	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1

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Sample Description: **SL-036-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA7-SS-0.0-0.5

LLI Sample # SW 6406193
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 08:40

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4306 SDG#: DE243-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.67	U	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.67	U	0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.0	U	6.0	18		1
10138	Fluoranthene	206-44-0	0.67	U	0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	0.67	U	0.67	1.7		1
10138	Pyrene	129-00-0	0.67	U	0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	2.0	U	2.0	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	6.9	U	6.9	6.9		1
10401	Dicamba	1918-00-9	0.71	J	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1
10401	MCPA	94-74-6	76	U	76	250		1
10401	MCPP (Mecoprop)	93-65-2	93	U	93	250		1
10401	2,4,5-T	93-76-5	0.082	U	0.082	0.17		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							

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

Sample Description: SL-036-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA7-SS-0.0-0.5

LLI Sample # SW 6406193
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 08:40

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4306 SDG#: DE243-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Reporting limits were raised due to interference from the sample matrix.								
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	2.1	J	0.80	3.4		1
01363	p,p-DDD	72-54-8	0.066	U	0.066	0.34		1
01363	p,p-DDE	72-55-9	0.76		0.066	0.34		1
01363	p,p-DDT	50-29-3	1.2		0.066	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.066	U	0.066	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.090	U	0.090	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34		1
01363	Endrin	72-20-8	0.066	U	0.066	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.20	U	0.20	0.34		1
01363	Endrin Ketone	53494-70-5	0.066	U	0.066	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.060	J	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.070	U	0.070	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.6		1

Maintenance and a new calibration was performed prior to the analysis of the samples. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site.

The TCX surrogate recovery for the associated method blank is outside the client specified limits of 50-130 at 41%. Since the recovery is within our in-house statistical limits of 28-128, the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	8.4		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1
10225	PCB-1260	11096-82-5	2.1		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	14,200		6.04	20.0		1

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Sample Description: **SL-036-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA7-SS-0.0-0.5

LLI Sample # SW 6406193
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 08:40

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Suite 210
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E4306 SDG#: DE243-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	3.14	J	0.359	4.99		1
01650	Calcium	7440-70-2	2,320		2.49	20.0		1
01654	Iron	7439-89-6	16,700		2.60	20.0		1
01656	Lithium	7439-93-2	21.5		0.62	2.0		1
01657	Magnesium	7439-95-4	3,930		0.439	9.98		1
06958	Manganese	7439-96-5	250		0.0359	0.499		1
10145	Phosphorus	7723-14-0	393		0.349	9.98		1
01662	Potassium	7440-09-7	3,040		11.3	49.9		1
01667	Sodium	7440-23-5	88.4	J	5.94	99.8		1
07968	Strontium	7440-24-6	18.6		0.0249	0.499		1
06969	Tin	7440-31-5	3.01	J	0.319	9.98		1
06970	Titanium	7440-32-6	1,090		0.0708	0.998		1
10146	Zirconium	7440-67-7	2.96	J	0.459	4.99		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0896	J	0.0738	0.200		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.81		0.0798	0.399		2
06126	Barium	7440-39-3	88.5		0.106	0.399		2
06127	Beryllium	7440-41-7	0.534		0.0160	0.0998		2
06128	Cadmium	7440-43-9	0.143		0.0439	0.0998		2
06131	Chromium	7440-47-3	16.1		0.120	0.399		2
06132	Cobalt	7440-48-4	5.84		0.0200	0.0998		2
06133	Copper	7440-50-8	8.51		0.0798	0.399		2
06135	Lead	7439-92-1	10.8		0.0102	0.200		2
06138	Molybdenum	7439-98-7	0.600		0.0499	0.0998		2
06139	Nickel	7440-02-0	10.4		0.0998	0.399		2
06141	Selenium	7782-49-2	0.225	J	0.0579	0.399		2
06142	Silver	7440-22-4	0.0302	J	0.0142	0.0998		2
06145	Thallium	7440-28-0	0.230		0.0299	0.0998		2
06148	Vanadium	7440-62-2	34.3		0.0219	0.0998		2
06149	Zinc	7440-66-6	76.8		0.559	2.99		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0166	J	0.0070	0.0988		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.79	U	0.79	0.99		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36	J	0.20	1.0		1

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

Sample Description: **SL-036-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA7-SS-0.0-0.5

LLI Sample # SW 6406193
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 08:40

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4306 SDG#: DE243-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.04	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.75	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11262SLD026	09/21/2011	09:46	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11262SLE026	09/27/2011	17:26	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11262SLE026	09/20/2011	06:50	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11262SLD026	09/20/2011	06:30	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670005A	09/27/2011	18:35	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112630031A	09/24/2011	13:16	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112630022A	09/22/2011	18:59	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112630031A	09/21/2011	07:50	Katheryne V Sponheimer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112630022A	09/21/2011	10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	112670005A	09/26/2011	21:35	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112595708002	09/24/2011	14:30	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112595708002	09/24/2011	14:30	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112595708002	09/24/2011	14:30	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112595708002	09/24/2011	14:30	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112595708002	09/24/2011	14:30	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112595708002	09/26/2011	21:11	John P Hook	1
06958	Manganese	SW-846 6010B	1	112595708002	09/24/2011	14:30	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112595708002	09/24/2011	14:30	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112595708002	09/24/2011	14:30	Eric L Eby	1

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

Sample Description: **SL-036-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA7-SS-0.0-0.5

LLI Sample # SW 6406193
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 08:40

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4306 SDG#: DE243-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	112595708002	09/24/2011 14:30	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112595708002	09/24/2011 14:30	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112595708002	09/24/2011 14:30	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112595708002	09/24/2011 14:30	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112595708002	09/24/2011 14:30	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112591026001A	09/19/2011 10:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112591026001A	09/19/2011 10:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112591026001D	09/19/2011 10:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112591026001A	09/19/2011 10:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112591026001A	09/19/2011 10:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112591026001A	09/19/2011 10:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112591026001A	09/19/2011 10:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112591026001A	09/19/2011 10:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112591026001A	09/19/2011 10:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112591026001C	09/19/2011 10:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112591026001A	09/19/2011 10:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112591026001B	09/19/2011 10:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112591026001A	09/19/2011 10:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112591026001A	09/19/2011 10:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112591026001A	09/19/2011 10:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112591026001A	09/19/2011 10:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112595711003	09/19/2011 10:50	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112595708002	09/18/2011 20:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112591026001	09/18/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112595711003	09/18/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11263263201A	09/21/2011 22:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11259621203A	09/16/2011 20:12	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11269243202A	09/27/2011 15:10	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11263263201A	09/20/2011 06:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11259621203A	09/16/2011 07:23	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11265039403A	09/22/2011 11:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11269243202A	09/26/2011 10:05	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162401A	09/20/2011 19:37	Scott W Freisher	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-038-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA7-SS-0.0-0.5

LLI Sample # SW 6406194
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 11:50

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4307 SDG#: DE243-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170		1
04688	4-Chloroaniline	106-47-8	66	U	66	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	330		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170		1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	66	U	66	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	33	U	33	170		1
04688	4-Methylphenol	106-44-5	33	U	33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	33	U	33	170		1
04688	4-Nitroaniline	100-01-6	66	U	66	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1

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

Sample Description: **SL-038-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-038-SA7-SS-0.0-0.5

LLI Sample # SW 6406194
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 11:50

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4307 SDG#: DE243-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	1.0	J	0.67	1.7		1
10138	Acenaphthylene	208-96-8	2.1		0.33	1.7		1
10138	Anthracene	120-12-7	5.7		0.33	1.7		1
10138	Benzo(a)anthracene	56-55-3	13		0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	12		0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	28		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	4.8		0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	12		0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	14	J	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	28		0.33	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	1.4	J	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	32		6.0	18		1
10138	Fluoranthene	206-44-0	78		0.67	1.7		1
10138	Fluorene	86-73-7	1.4	J	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.5		0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	1.6	J	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	2.6		0.67	1.7		1
10138	Naphthalene	91-20-3	3.2		0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	110		0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	41		0.67	1.7		1
10138	Pyrene	129-00-0	60		0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	8.1	U	8.1	8.1		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.33	U	0.33	0.33		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							

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

Sample Description: **SL-038-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-038-SA7-SS-0.0-0.5

LLI Sample # SW 6406194
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 11:50

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4307 SDG#: DE243-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Reporting limits were raised due to interference from the sample matrix.								
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.33	U	0.33	0.84		5
01363	Alpha BHC	319-84-6	0.17	U	0.17	0.84		5
01363	Beta BHC	319-85-7	0.30	U	0.30	0.84		5
01363	Gamma BHC - Lindane	58-89-9	0.17	U	0.17	0.84		5
01363	Chlordane	57-74-9	4.0	U	4.0	17		5
01363	p,p-DDD	72-54-8	1.5	U	1.5	1.7		5
01363	p,p-DDE	72-55-9	9.0		1.3	6.9		20
01363	p,p-DDT	50-29-3	22		1.3	6.9		20
01363	Delta BHC	319-86-8	0.18	U	0.18	0.84		5
01363	Dieldrin	60-57-1	1.4	U	1.4	1.7		5
01363	Endosulfan I	959-98-8	0.22	U	0.22	0.84		5
01363	Endosulfan II	33213-65-9	0.44	U	0.44	1.7		5
01363	Endosulfan Sulfate	1031-07-8	0.33	U	0.33	1.7		5
01363	Endrin	72-20-8	0.37	U	0.37	1.7		5
01363	Endrin Aldehyde	7421-93-4	0.90	U	0.90	1.7		5
01363	Endrin Ketone	53494-70-5	0.33	U	0.33	1.7		5
01363	Heptachlor	76-44-8	0.30	U	0.30	0.84		5
01363	Heptachlor Epoxide	1024-57-3	0.51	U	0.51	0.84		5
01363	Methoxychlor	72-43-5	1.7	U	1.7	8.4		5
01363	Mirex	2385-85-5	0.43	U	0.43	1.7		5
01363	Toxaphene	8001-35-2	34	U	34	34		5

Maintenance and a new calibration was performed prior to the analysis of the samples. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site.

The TCX surrogate recovery for the associated method blank is outside the client specified limits of 50-130 at 41%. Since the recovery is within our in-house statistical limits of 28-128, the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	5.1	U	5.1	17		5
10225	Aroclor 5442	12642-23-8	5.1	U	5.1	17		5
10225	Aroclor 5460	11126-42-4	44		5.1	17		5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.6		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.6		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.6		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.6		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.6		5
10225	PCB-1254	11097-69-1	48		1.7	8.6		5
10225	PCB-1260	11096-82-5	24		2.0	8.6		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.6		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.6		5
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	11,700		5.88	19.4		1

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

Sample Description: SL-038-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA7-SS-0.0-0.5

LLI Sample # SW 6406194
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 11:50

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4307 SDG#: DE243-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	3.97	J	0.350	4.86		1
01650	Calcium	7440-70-2	2,560		2.43	19.4		1
01654	Iron	7439-89-6	16,800		2.53	19.4		1
01656	Lithium	7439-93-2	20.7		0.60	1.9		1
01657	Magnesium	7439-95-4	3,840		0.427	9.71		1
06958	Manganese	7439-96-5	248		0.0350	0.486		1
10145	Phosphorus	7723-14-0	397		0.340	9.71		1
01662	Potassium	7440-09-7	3,230		11.0	48.6		1
01667	Sodium	7440-23-5	74.3	J	5.78	97.1		1
07968	Strontium	7440-24-6	13.4		0.0243	0.486		1
06969	Tin	7440-31-5	3.01	J	0.311	9.71		1
06970	Titanium	7440-32-6	1,050		0.0690	0.971		1
10146	Zirconium	7440-67-7	2.59	J	0.447	4.86		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.287		0.0719	0.194		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.5		0.0777	0.389		2
06126	Barium	7440-39-3	95.3		0.103	0.389		2
06127	Beryllium	7440-41-7	0.636		0.0155	0.0971		2
06128	Cadmium	7440-43-9	0.285		0.0427	0.0971		2
06131	Chromium	7440-47-3	18.1		0.117	0.389		2
06132	Cobalt	7440-48-4	6.34		0.0194	0.0971		2
06133	Copper	7440-50-8	10.4		0.0777	0.389		2
06135	Lead	7439-92-1	25.8		0.0099	0.194		2
06138	Molybdenum	7439-98-7	0.804		0.0486	0.0971		2
06139	Nickel	7440-02-0	13.2		0.0971	0.389		2
06141	Selenium	7782-49-2	0.155	J	0.0563	0.389		2
06142	Silver	7440-22-4	0.0497	J	0.0138	0.0971		2
06145	Thallium	7440-28-0	0.273		0.0291	0.0971		2
06148	Vanadium	7440-62-2	44.0		0.0214	0.0971		2
06149	Zinc	7440-66-6	92.4		0.544	2.91		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0193	J	0.0068	0.0963		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.79	0.99		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1

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

Sample Description: **SL-038-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-038-SA7-SS-0.0-0.5

LLI Sample # SW 6406194
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 11:50

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4307 SDG#: DE243-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.22	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.0	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11262SLD026	09/21/2011 10:10	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11262SLE026	09/27/2011 18:00	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11262SLE026	09/20/2011 06:50	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11262SLD026	09/20/2011 06:30	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112630003A	09/22/2011 03:02	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112630031A	09/24/2011 18:40	Melissa McDermott	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	112630031A	09/24/2011 18:54	Melissa McDermott	20
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112630022A	09/23/2011 10:01	Jamie L Brillhart	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112630031A	09/21/2011 07:50	Katheryne V Sponheimer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112630022A	09/21/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112630003A	09/20/2011 22:00	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112595708002	09/24/2011 14:34	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112595708002	09/24/2011 14:34	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112595708002	09/24/2011 14:34	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112595708002	09/24/2011 14:34	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112595708002	09/24/2011 14:34	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112595708002	09/26/2011 21:15	John P Hook	1
06958	Manganese	SW-846 6010B	1	112595708002	09/24/2011 14:34	Eric L Eby	1

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

Sample Description: **SL-038-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-038-SA7-SS-0.0-0.5

LLI Sample # SW 6406194
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 11:50

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4307 SDG#: DE243-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	112595708002	09/24/2011 14:34	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112595708002	09/24/2011 14:34	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112595708002	09/24/2011 14:34	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112595708002	09/24/2011 14:34	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112595708002	09/24/2011 14:34	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112595708002	09/24/2011 14:34	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112595708002	09/24/2011 14:34	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112591026001A	09/19/2011 10:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112591026001A	09/19/2011 10:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112591026001D	09/19/2011 10:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112591026001A	09/19/2011 10:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112591026001A	09/19/2011 10:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112591026001A	09/19/2011 10:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112591026001A	09/19/2011 10:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112591026001A	09/19/2011 10:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112591026001A	09/19/2011 10:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112591026001C	09/19/2011 10:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112591026001A	09/19/2011 10:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112591026001B	09/19/2011 10:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112591026001A	09/19/2011 10:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112591026001A	09/19/2011 10:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112591026001A	09/19/2011 10:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112591026001A	09/19/2011 10:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112595711003	09/19/2011 10:51	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112595708002	09/18/2011 20:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112591026001	09/18/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112595711003	09/18/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11263263201A	09/21/2011 22:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11259621203A	09/16/2011 20:35	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11269243202A	09/27/2011 15:17	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11263263201A	09/20/2011 06:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11259621203A	09/16/2011 07:23	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11265039403A	09/22/2011 11:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11269243202A	09/26/2011 10:05	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162401A	09/20/2011 19:37	Scott W Freisher	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-039-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA7-SS-0.0-0.5

LLI Sample # SW 6406195
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 09:05

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4308 SDG#: DE243-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1

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

Sample Description: **SL-039-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA7-SS-0.0-0.5

LLI Sample # SW 6406195
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 09:05

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4308 SDG#: DE243-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.91	J	0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.68	U	0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	6.2		0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.95	J	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.68	U	0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	18		1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	18		1
10138	Chrysene	218-01-9	5.2		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	18		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.2	J	6.2	18		1
10138	Fluoranthene	206-44-0	3.0		0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	18		1
10138	Phenanthrene	85-01-8	4.0		0.68	1.7		1
10138	Pyrene	129-00-0	2.9		0.68	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.3		1
10401	2,4-DB	94-82-6	0.64	U	0.64	1.8		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.8		1
10401	MCPA	94-74-6	78	U	78	260		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	0.084	U	0.084	0.18		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.18		1

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

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

Sample Description: SL-039-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA7-SS-0.0-0.5

LLI Sample # SW 6406195
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 09:05

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4308 SDG#: DE243-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	0.83	U	0.83	3.5		1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35		1
01363	p,p-DDE	72-55-9	0.068	U	0.068	0.35		1
01363	p,p-DDT	50-29-3	0.12	U	0.12	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.068	U	0.068	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.072	U	0.072	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35		1
01363	Endrin	72-20-8	0.068	U	0.068	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.068	U	0.068	0.35		1
01363	Endrin Ketone	53494-70-5	0.29	J	0.068	0.35		1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.43		0.068	0.35		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.8		1

Maintenance and a new calibration was performed prior to the analysis of the samples. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site.

The TCX surrogate recovery for the associated method blank is outside the client specified limits of 50-130 at 41%. Since the recovery is within our in-house statistical limits of 28-128, the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	2.1	J	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1
10225	PCB-1254	11097-69-1	0.80	J	0.34	1.8		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-039-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA7-SS-0.0-0.5

LLI Sample # SW 6406195
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 09:05

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4308 SDG#: DE243-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.6		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.6		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.1	U	2.1	6.2		5
10199	EFH (C15-C20)	n.a.	2.1	U	2.1	6.2		5
10199	EFH (C21-C30)	n.a.	20		2.1	6.2		5
10199	EFH (C30 - C40)	n.a.	99		2.1	6.2		5
10199	EFH (C8-C11)	n.a.	2.1	U	2.1	6.2		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,500		6.21	20.5		1
07914	Boron	7440-42-8	4.33	J	0.370	5.14		1
01650	Calcium	7440-70-2	3,760		2.57	20.5		1
01654	Iron	7439-89-6	19,700		2.68	20.5		1
01656	Lithium	7439-93-2	10.1		0.64	2.1		1
01657	Magnesium	7439-95-4	4,220		0.452	10.3		1
06958	Manganese	7439-96-5	356		0.0370	0.514		1
10145	Phosphorus	7723-14-0	643		0.359	10.3		1
01662	Potassium	7440-09-7	2,430		11.6	51.4		1
01667	Sodium	7440-23-5	250		6.11	103		1
07968	Strontium	7440-24-6	54.0		0.0257	0.514		1
06969	Tin	7440-31-5	2.58	J	0.329	10.3		1
06970	Titanium	7440-32-6	1,220		0.0729	1.03		1
10146	Zirconium	7440-67-7	6.68		0.472	5.14		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0874	J	0.0760	0.205		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	2.81		0.0822	0.411		2
06126	Barium	7440-39-3	149		0.109	0.411		2
06127	Beryllium	7440-41-7	0.329		0.0164	0.103		2
06128	Cadmium	7440-43-9	0.144		0.0452	0.103		2

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

Sample Description: SL-039-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA7-SS-0.0-0.5

LLI Sample # SW 6406195
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 09:05

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4308 SDG#: DE243-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	16.6	0.123	0.411		2
06132	Cobalt	7440-48-4	7.42	0.0205	0.103		2
06133	Copper	7440-50-8	15.6	0.0822	0.411		2
06135	Lead	7439-92-1	3.93	0.0105	0.205		2
06138	Molybdenum	7439-98-7	0.550	0.0514	0.103		2
06139	Nickel	7440-02-0	10.5	0.103	0.411		2
06141	Selenium	7782-49-2	0.0723 J	0.0596	0.411		2
06142	Silver	7440-22-4	0.0161 J	0.0146	0.103		2
06145	Thallium	7440-28-0	0.207	0.0308	0.103		2
06148	Vanadium	7440-62-2	55.4	0.0226	0.103		2
06149	Zinc	7440-66-6	53.9	0.575	3.08		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0412 J	0.0070	0.0996		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7	0.82	1.0		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3 U	9.3	31.1		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21 U	0.21	1.0		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.74	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	3.6	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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

Sample Description: **SL-039-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA7-SS-0.0-0.5

LLI Sample # SW 6406195
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 09:05

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4308 SDG#: DE243-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11262SLD026	09/21/2011 10:34	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11262SLE026	09/27/2011 18:33	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11262SLE026	09/20/2011 06:50	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11262SLD026	09/20/2011 06:30	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112630003A	09/22/2011 03:29	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112630031A	09/24/2011 13:59	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112630022A	09/22/2011 19:37	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112630031A	09/21/2011 07:50	Katheryne V Sponheimer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112630022A	09/21/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112630003A	09/20/2011 22:00	Elaine F Stoltzfus	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112580039A	09/17/2011 01:56	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620010A	09/20/2011 16:57	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112630011A	09/21/2011 04:25	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112640002A	09/23/2011 02:24	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112640002A	09/21/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112630011A	09/20/2011 15:00	Wanda F Oswald	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112580039A	09/16/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620010A	09/19/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112595708002	09/24/2011 14:38	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112595708002	09/24/2011 14:38	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112595708002	09/24/2011 14:38	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112595708002	09/24/2011 14:38	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112595708002	09/24/2011 14:38	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112595708002	09/26/2011 21:19	John P Hook	1
06958	Manganese	SW-846 6010B	1	112595708002	09/24/2011 14:38	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112595708002	09/24/2011 14:38	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112595708002	09/24/2011 14:38	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112595708002	09/24/2011 14:38	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112595708002	09/24/2011 14:38	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112595708002	09/24/2011 14:38	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112595708002	09/24/2011 14:38	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112595708002	09/24/2011 14:38	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112591026001A	09/19/2011 10:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112591026001A	09/19/2011 10:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112591026001D	09/19/2011 10:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112591026001A	09/19/2011 10:16	Choon Y Tian	2

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Analysis Report

Sample Description: SL-039-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA7-SS-0.0-0.5

LLI Sample # SW 6406195
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 09:05

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4308 SDG#: DE243-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112591026001A	09/19/2011 10:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112591026001A	09/19/2011 10:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112591026001A	09/19/2011 10:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112591026001A	09/19/2011 10:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112591026001A	09/19/2011 10:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112591026001C	09/19/2011 10:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112591026001A	09/19/2011 10:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112591026001B	09/19/2011 10:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112591026001A	09/19/2011 10:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112591026001A	09/19/2011 10:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112591026001A	09/19/2011 10:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112591026001A	09/19/2011 10:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112595711003	09/19/2011 10:52	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112595708002	09/18/2011 20:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112591026001	09/18/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112595711003	09/18/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11263263201A	09/21/2011 22:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11259621203A	09/16/2011 20:59	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11269243202A	09/27/2011 15:46	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11263263201A	09/20/2011 06:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11259621203A	09/16/2011 07:23	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11265039403A	09/22/2011 11:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11269243202A	09/26/2011 10:05	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162401A	09/20/2011 19:37	Scott W Freisher	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA7-SS-0.0-0.5

LLI Sample # SW 6406196
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 08:20

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4309 SDG#: DE243-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1

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

Sample Description: **SL-076-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA7-SS-0.0-0.5

LLI Sample # SW 6406196
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 08:20

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4309 SDG#: DE243-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.2	J	0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19		1
10138	Chrysene	218-01-9	0.48	J	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.2	U	6.2	19		1
10138	Fluoranthene	206-44-0	0.77	J	0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19		1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7		1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	0.64	U	0.64	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	78	U	78	260		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	0.27		0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							

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Sample Description: SL-076-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA7-SS-0.0-0.5

LLI Sample # SW 6406196
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 08:20

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4309 SDG#: DE243-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	0.82	U	0.82	3.5		1
01363	p,p-DDD	72-54-8	0.15	U	0.15	0.35		1
01363	p,p-DDE	72-55-9	0.13	U	0.13	0.35		1
01363	p,p-DDT	50-29-3	0.098	U	0.098	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.068	U	0.068	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.19	U	0.19	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.18	J	0.068	0.35		1
01363	Endrin	72-20-8	0.068	U	0.068	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.068	U	0.068	0.35		1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7		1
01363	Mirex	2385-85-5	0.77		0.068	0.35		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.8		1

Maintenance and a new calibration was performed prior to the analysis of the samples. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site.

The TCX surrogate recovery for the associated method blank is outside the client specified limits of 50-130 at 41%. Since the recovery is within our in-house statistical limits of 28-128, the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1
10225	PCB-1254	11097-69-1	0.39	J	0.34	1.8		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1

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Sample Description: **SL-076-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA7-SS-0.0-0.5

LLI Sample # SW 6406196
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 08:20

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4309 SDG#: DE243-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.1	U	4.1	12		10
10199	EFH (C15-C20)	n.a.	5.5	J	4.1	12		10
10199	EFH (C21-C30)	n.a.	76		4.1	12		10
10199	EFH (C30 - C40)	n.a.	340		4.1	12		10
10199	EFH (C8-C11)	n.a.	4.1	U	4.1	12		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,900		5.99	19.8		1
07914	Boron	7440-42-8	4.83	J	0.356	4.95		1
01650	Calcium	7440-70-2	3,550		2.48	19.8		1
01654	Iron	7439-89-6	19,000		2.58	19.8		1
01656	Lithium	7439-93-2	9.5		0.61	2.0		1
01657	Magnesium	7439-95-4	3,950		0.436	9.90		1
06958	Manganese	7439-96-5	331		0.0356	0.495		1
10145	Phosphorus	7723-14-0	533		0.347	9.90		1
01662	Potassium	7440-09-7	2,360		11.2	49.5		1
01667	Sodium	7440-23-5	215		5.89	99.0		1
07968	Strontium	7440-24-6	47.8		0.0248	0.495		1
06969	Tin	7440-31-5	2.34	J	0.317	9.90		1
06970	Titanium	7440-32-6	1,120		0.0703	0.990		1
10146	Zirconium	7440-67-7	6.33		0.456	4.95		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.189	J	0.0755	0.204		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	2.93		0.0816	0.408		2
06126	Barium	7440-39-3	168		0.108	0.408		2
06127	Beryllium	7440-41-7	0.376		0.0163	0.102		2
06128	Cadmium	7440-43-9	0.127		0.0449	0.102		2

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Lancaster Laboratories

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

Analysis Report

Sample Description: SL-076-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA7-SS-0.0-0.5

LLI Sample # SW 6406196
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 08:20

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4309 SDG#: DE243-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	21.9	0.122	0.408		2
06132	Cobalt	7440-48-4	8.46	0.0204	0.102		2
06133	Copper	7440-50-8	17.6	0.0816	0.408		2
06135	Lead	7439-92-1	4.24	0.0104	0.204		2
06138	Molybdenum	7439-98-7	0.574	0.0510	0.102		2
06139	Nickel	7440-02-0	13.0	0.102	0.408		2
06141	Selenium	7782-49-2	0.112 J	0.0591	0.408		2
06142	Silver	7440-22-4	0.0176 J	0.0145	0.102		2
06145	Thallium	7440-28-0	0.210	0.0306	0.102		2
06148	Vanadium	7440-62-2	61.2	0.0224	0.102		2
06149	Zinc	7440-66-6	55.7	0.571	3.06		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0451 J	0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4	0.82	1.0		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3 U	9.3	30.9		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21 U	0.21	1.0		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.99	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.9	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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

Sample Description: **SL-076-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA7-SS-0.0-0.5

LLI Sample # SW 6406196
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E4309 SDG#: DE243-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11262SLD026	09/21/2011 18:23	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11262SLE026	09/27/2011 19:07	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11262SLE026	09/20/2011 06:50	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11262SLD026	09/20/2011 06:30	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112630003A	09/22/2011 03:57	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112630031A	09/24/2011 14:13	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112630022A	09/22/2011 19:55	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112630031A	09/21/2011 07:50	Katheryne V Sponheimer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112630022A	09/21/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112630003A	09/20/2011 22:00	Elaine F Stoltzfus	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112580039A	09/17/2011 02:11	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620010A	09/20/2011 17:10	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112630011A	09/21/2011 05:54	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112640002A	09/24/2011 11:41	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112640002A	09/21/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112630011A	09/20/2011 15:00	Wanda F Oswald	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112580039A	09/16/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620010A	09/19/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112595708002	09/24/2011 14:42	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112595708002	09/24/2011 14:42	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112595708002	09/24/2011 14:42	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112595708002	09/24/2011 14:42	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112595708002	09/24/2011 14:42	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112595708002	09/26/2011 21:24	John P Hook	1
06958	Manganese	SW-846 6010B	1	112595708002	09/24/2011 14:42	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112595708002	09/24/2011 14:42	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112595708002	09/24/2011 14:42	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112595708002	09/24/2011 14:42	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112595708002	09/24/2011 14:42	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112595708002	09/24/2011 14:42	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112595708002	09/24/2011 14:42	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112595708002	09/24/2011 14:42	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112591026001A	09/19/2011 10:20	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112591026001A	09/19/2011 10:20	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112591026001D	09/19/2011 10:20	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112591026001A	09/19/2011 10:20	Choon Y Tian	2

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

Sample Description: **SL-076-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA7-SS-0.0-0.5

LLI Sample # SW 6406196
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 08:20

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4309 SDG#: DE243-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112591026001A	09/19/2011 10:20	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112591026001A	09/19/2011 10:20	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112591026001A	09/19/2011 10:20	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112591026001A	09/19/2011 10:20	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112591026001A	09/19/2011 10:20	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112591026001C	09/19/2011 10:20	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112591026001A	09/19/2011 10:20	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112591026001B	09/19/2011 10:20	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112591026001A	09/19/2011 10:20	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112591026001A	09/19/2011 10:20	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112591026001A	09/19/2011 10:20	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112591026001A	09/19/2011 10:20	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112595711003	09/19/2011 10:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112595708002	09/18/2011 20:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112591026001	09/18/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112595711003	09/18/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11263263201A	09/21/2011 23:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11259621203A	09/16/2011 21:22	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11269243202A	09/27/2011 16:00	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11263263201A	09/20/2011 06:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11259621203A	09/16/2011 07:23	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11265039403A	09/22/2011 11:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11269243202A	09/26/2011 10:05	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162401A	09/20/2011 19:37	Scott W Freisher	1

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Lancaster Laboratories

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

Analysis Report

Sample Description: SL-077-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA7-SS-0.0-0.5

LLI Sample # SW 6406197
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 09:40

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4310 SDG#: DE243-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	330		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170		1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	33	U	33	170		1
04688	4-Methylphenol	106-44-5	33	U	33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	33	U	33	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1

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

Sample Description: **SL-077-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-077-SA7-SS-0.0-0.5

LLI Sample # SW 6406197
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 09:40

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4310 SDG#: DE243-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.67	U	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.1	J	0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	0.46	J	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	18	J	6.1	18		1
10138	Fluoranthene	206-44-0	0.67	U	0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	0.67	U	0.67	1.7		1
10138	Pyrene	129-00-0	0.67	U	0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	0.62	U	0.62	1.7		1
10401	Dicamba	1918-00-9	0.48	J	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1
10401	MCPA	94-74-6	280	U	280	280		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.082	U	0.082	0.17		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1

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

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

Sample Description: SL-077-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA7-SS-0.0-0.5

LLI Sample # SW 6406197
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 09:40

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4310 SDG#: DE243-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Reporting limits were raised due to interference from the sample matrix.								
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.80	U	0.80	3.4		1
01363	p,p-DDD	72-54-8	0.091	U	0.091	0.34		1
01363	p,p-DDE	72-55-9	0.073	U	0.073	0.34		1
01363	p,p-DDT	50-29-3	0.25	U	0.25	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.066	U	0.066	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.092	U	0.092	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34		1
01363	Endrin	72-20-8	0.066	U	0.066	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.082	U	0.082	0.34		1
01363	Endrin Ketone	53494-70-5	0.066	U	0.066	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.066	U	0.066	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.6		1

Maintenance and a new calibration was performed prior to the analysis of the samples. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site.

The TCX surrogate recovery for the associated method blank is outside the client specified limits of 50-130 at 41%. Since the recovery is within our in-house statistical limits of 28-128, the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	2.9	J	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	2.5		0.33	1.7		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	510		1

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

Sample Description: SL-077-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA7-SS-0.0-0.5

LLI Sample # SW 6406197
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 09:40

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4310 SDG#: DE243-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	1.9		0.40	1.2		1
10199	EFH (C21-C30)	n.a.	6.3		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	21		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.40	U	0.40	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,500		6.00	19.8		1
07914	Boron	7440-42-8	4.09	J	0.357	4.96		1
01650	Calcium	7440-70-2	2,070		2.48	19.8		1
01654	Iron	7439-89-6	15,200		2.59	19.8		1
01656	Lithium	7439-93-2	21.2		0.61	2.0		1
01657	Magnesium	7439-95-4	3,460		0.436	9.91		1
06958	Manganese	7439-96-5	211		0.0357	0.496		1
10145	Phosphorus	7723-14-0	257		0.347	9.91		1
01662	Potassium	7440-09-7	2,600		11.2	49.6		1
01667	Sodium	7440-23-5	67.6	J	5.90	99.1		1
07968	Strontium	7440-24-6	15.7		0.0248	0.496		1
06969	Tin	7440-31-5	2.82	J	0.317	9.91		1
06970	Titanium	7440-32-6	1,020		0.0704	0.991		1
10146	Zirconium	7440-67-7	2.73	J	0.456	4.96		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.110	J	0.0734	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.48		0.0793	0.397		2
06126	Barium	7440-39-3	103		0.105	0.397		2
06127	Beryllium	7440-41-7	0.741		0.0159	0.0991		2

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Analysis Report

Sample Description: SL-077-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA7-SS-0.0-0.5

LLI Sample # SW 6406197
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 09:40

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4310 SDG#: DE243-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.142	0.0436	0.0991		2
06131	Chromium	7440-47-3	18.0	0.119	0.397		2
06132	Cobalt	7440-48-4	6.02	0.0198	0.0991		2
06133	Copper	7440-50-8	8.26	0.0793	0.397		2
06135	Lead	7439-92-1	9.13	0.0101	0.198		2
06138	Molybdenum	7439-98-7	0.855	0.0496	0.0991		2
06139	Nickel	7440-02-0	12.0	0.0991	0.397		2
06141	Selenium	7782-49-2	0.237 J	0.0575	0.397		2
06142	Silver	7440-22-4	0.0374 J	0.0141	0.0991		2
06145	Thallium	7440-28-0	0.298	0.0297	0.0991		2
06148	Vanadium	7440-62-2	37.3	0.0218	0.0991		2
06149	Zinc	7440-66-6	89.8	0.555	2.97		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0081 J	0.0070	0.0998		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5	0.80	1.0		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1 U	9.1	30.3		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20 U	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.82	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.1	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

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

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Sample Description: **SL-077-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-077-SA7-SS-0.0-0.5

LLI Sample # SW 6406197
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 09:40

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4310 SDG#: DE243-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11262SLD026	09/21/2011 18:46	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11262SLE026	09/27/2011 19:40	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11262SLE026	09/20/2011 06:50	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11262SLD026	09/20/2011 06:30	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112630003A	09/22/2011 04:24	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112630031A	09/24/2011 14:41	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112630022A	09/22/2011 20:14	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112630031A	09/21/2011 07:50	Katheryne V Sponheimer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112630022A	09/21/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112630003A	09/20/2011 22:00	Elaine F Stoltzfus	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112580039A	09/17/2011 02:26	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620010A	09/20/2011 17:23	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112630011A	09/21/2011 01:28	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112640002A	09/23/2011 01:12	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112640002A	09/21/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112630011A	09/20/2011 15:00	Wanda F Oswald	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112580039A	09/16/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620010A	09/19/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112595708002	09/24/2011 14:46	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112595708002	09/24/2011 14:46	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112595708002	09/24/2011 14:46	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112595708002	09/24/2011 14:46	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112595708002	09/24/2011 14:46	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112595708002	09/26/2011 21:28	John P Hook	1
06958	Manganese	SW-846 6010B	1	112595708002	09/24/2011 14:46	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112595708002	09/24/2011 14:46	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112595708002	09/24/2011 14:46	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112595708002	09/24/2011 14:46	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112595708002	09/24/2011 14:46	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112595708002	09/24/2011 14:46	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112595708002	09/24/2011 14:46	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112595708002	09/24/2011 14:46	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112591026001A	09/19/2011 10:23	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112591026001A	09/19/2011 10:23	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112591026001D	09/19/2011 10:23	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112591026001A	09/19/2011 10:23	Choon Y Tian	2

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Sample Description: **SL-077-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-077-SA7-SS-0.0-0.5

LLI Sample # SW 6406197
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 09:40

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4310 SDG#: DE243-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112591026001A	09/19/2011 10:23	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112591026001A	09/19/2011 10:23	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112591026001A	09/19/2011 10:23	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112591026001A	09/19/2011 10:23	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112591026001A	09/19/2011 10:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112591026001C	09/19/2011 10:23	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112591026001A	09/19/2011 10:23	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112591026001B	09/19/2011 10:23	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112591026001A	09/19/2011 10:23	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112591026001A	09/19/2011 10:23	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112591026001A	09/19/2011 10:23	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112591026001A	09/19/2011 10:23	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112595711003	09/19/2011 10:57	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112595708002	09/18/2011 20:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112591026001	09/18/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112595711003	09/18/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11263263201A	09/21/2011 23:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11259621203A	09/16/2011 21:45	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11269243202A	09/27/2011 16:15	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11263263201A	09/20/2011 06:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11259621203A	09/16/2011 07:23	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11265039403B	09/22/2011 11:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11269243202A	09/26/2011 10:05	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162401A	09/20/2011 19:37	Scott W Freisher	1

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Analysis Report

Sample Description: SL-078-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA7-SS-0.0-0.5

LLI Sample # SW 6406198
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 10:00

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4311 SDG#: DE243-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1

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Sample Description: **SL-078-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA7-SS-0.0-0.5

LLI Sample # SW 6406198
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 10:00

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4311 SDG#: DE243-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.96	J	0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	1.1	J	0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	3.2		0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.68	U	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	1.2	J	0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	1.8		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.1	U	6.1	18		1
10138	Fluoranthene	206-44-0	2.9		0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	1.1	J	0.68	1.7		1
10138	Pyrene	129-00-0	2.0		0.68	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	0.62	U	0.62	1.7		1
10401	Dicamba	1918-00-9	0.61	J	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	1.6	U	1.6	1.7		1
10401	MCPA	94-74-6	500	U	500	500		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.16	U	0.16	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							

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Sample Description: SL-078-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA7-SS-0.0-0.5

LLI Sample # SW 6406198
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 10:00

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4311 SDG#: DE243-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Reporting limits were raised due to interference from the sample matrix.								
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.1	U	2.1	5.1		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	1.6	J	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.29	U	0.29	0.34		1
01363	p,p-DDE	72-55-9	0.54		0.067	0.34		1
01363	p,p-DDT	50-29-3	0.93		0.067	0.34		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.099	U	0.099	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.20	J	0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.044	U	0.044	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

Maintenance and a new calibration was performed prior to the analysis of the samples. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site.

The TCX surrogate recovery for the associated method blank is outside the client specified limits of 50-130 at 41%. Since the recovery is within our in-house statistical limits of 28-128, the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	2.4	J	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	3.0		0.33	1.7		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1

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

Sample Description: SL-078-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA7-SS-0.0-0.5

LLI Sample # SW 6406198
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 10:00

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4311 SDG#: DE243-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	0.56	J	0.41	1.2		1
10199	EFH (C21-C30)	n.a.	10		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	44		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.41	U	0.41	1.2		1

The surrogate data is outside the QC limits. The sample was re-extracted within the method holding time. Sample surrogate results from the reextraction are within the limits. Target analytes were detected in the reextracted method blank associated with the sample as noted in the QC summary. Similar results were obtained in both extracts. The rextracted data is reported.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,700		6.08	20.1		1
07914	Boron	7440-42-8	4.50	J	0.361	5.02		1
01650	Calcium	7440-70-2	2,210		2.51	20.1		1
01654	Iron	7439-89-6	16,800		2.62	20.1		1
01656	Lithium	7439-93-2	22.7		0.62	2.0		1
01657	Magnesium	7439-95-4	3,870		0.442	10.0		1
06958	Manganese	7439-96-5	203		0.0361	0.502		1
10145	Phosphorus	7723-14-0	268		0.351	10.0		1
01662	Potassium	7440-09-7	2,570		11.3	50.2		1
01667	Sodium	7440-23-5	66.6	J	5.97	100		1
07968	Strontium	7440-24-6	19.0		0.0251	0.502		1
06969	Tin	7440-31-5	3.28	J	0.321	10.0		1
06970	Titanium	7440-32-6	1,110		0.0713	1.00		1
10146	Zirconium	7440-67-7	3.38	J	0.462	5.02		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.223		0.0743	0.201		2

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

Sample Description: **SL-078-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA7-SS-0.0-0.5

LLI Sample # SW 6406198
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 10:00

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4311 SDG#: DE243-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.65		0.0803	0.402		2
06126	Barium	7440-39-3	106		0.106	0.402		2
06127	Beryllium	7440-41-7	0.907		0.0161	0.100		2
06128	Cadmium	7440-43-9	0.217		0.0442	0.100		2
06131	Chromium	7440-47-3	21.5		0.120	0.402		2
06132	Cobalt	7440-48-4	6.39		0.0201	0.100		2
06133	Copper	7440-50-8	9.35		0.0803	0.402		2
06135	Lead	7439-92-1	9.48		0.0102	0.201		2
06138	Molybdenum	7439-98-7	1.15		0.0502	0.100		2
06139	Nickel	7440-02-0	12.5		0.100	0.402		2
06141	Selenium	7782-49-2	0.215	J	0.0582	0.402		2
06142	Silver	7440-22-4	0.0404	J	0.0143	0.100		2
06145	Thallium	7440-28-0	0.280		0.0301	0.100		2
06148	Vanadium	7440-62-2	43.3		0.0221	0.100		2
06149	Zinc	7440-66-6	95.1		0.562	3.01		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0115	J	0.0070	0.0989		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3		0.80	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.60	J	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.84		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

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

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

Sample Description: **SL-078-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA7-SS-0.0-0.5

LLI Sample # SW 6406198
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 10:00

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4311 SDG#: DE243-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11262SLD026	09/21/2011 19:10	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11262SLE026	09/27/2011 20:14	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11262SLE026	09/20/2011 06:50	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11262SLD026	09/20/2011 06:30	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112630003A	09/22/2011 05:46	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112600024A	09/19/2011 17:04	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112630031A	09/24/2011 13:30	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112630022A	09/22/2011 20:33	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112630031A	09/21/2011 07:50	Katheryne V Sponheimer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112630022A	09/21/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112630003A	09/20/2011 22:00	Elaine F Stoltzfus	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112600024A	09/19/2011 09:20	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112580039A	09/17/2011 02:40	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620010A	09/20/2011 17:36	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112630011A	09/21/2011 01:50	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112680001A	09/26/2011 23:03	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	112680001A	09/26/2011 10:55	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112630011A	09/20/2011 15:00	Wanda F Oswald	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112580039A	09/16/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620010A	09/19/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112595708002	09/24/2011 14:50	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112595708002	09/24/2011 14:50	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112595708002	09/24/2011 14:50	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112595708002	09/24/2011 14:50	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112595708002	09/24/2011 14:50	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112595708002	09/26/2011 21:32	John P Hook	1
06958	Manganese	SW-846 6010B	1	112595708002	09/24/2011 14:50	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112595708002	09/24/2011 14:50	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112595708002	09/24/2011 14:50	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112595708002	09/24/2011 14:50	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112595708002	09/24/2011 14:50	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112595708002	09/24/2011 14:50	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112595708002	09/24/2011 14:50	Eric L Eby	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-078-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA7-SS-0.0-0.5

LLI Sample # SW 6406198
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 10:00

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4311 SDG#: DE243-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	112595708002	09/24/2011 14:50	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112591026001A	09/19/2011 10:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112591026001A	09/19/2011 10:26	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112591026001D	09/19/2011 10:26	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112591026001A	09/19/2011 10:26	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112591026001A	09/19/2011 10:26	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112591026001A	09/19/2011 10:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112591026001A	09/19/2011 10:26	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112591026001A	09/19/2011 10:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112591026001A	09/19/2011 10:26	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112591026001C	09/19/2011 10:26	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112591026001A	09/19/2011 10:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112591026001B	09/19/2011 10:26	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112591026001A	09/19/2011 10:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112591026001A	09/19/2011 10:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112591026001A	09/19/2011 10:26	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112591026001A	09/19/2011 10:26	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112595711003	09/19/2011 10:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112595708002	09/18/2011 20:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112591026001	09/18/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112595711003	09/18/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11263263201B	09/21/2011 23:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11259621203B	09/16/2011 22:08	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11269243202A	09/27/2011 16:29	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11263263201B	09/20/2011 06:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11259621203B	09/16/2011 07:23	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11265039403B	09/22/2011 11:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11269243202A	09/26/2011 10:05	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162401A	09/20/2011 19:37	Scott W Freisher	1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-099-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA7-SS-0.0-0.5

LLI Sample # SW 6406199
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 10:40

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4312 SDG#: DE243-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	330		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170		1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	33	U	33	170		1
04688	4-Methylphenol	106-44-5	33	U	33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	33	U	33	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1

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

Sample Description: **SL-099-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA7-SS-0.0-0.5

LLI Sample # SW 6406199
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 10:40

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4312 SDG#: DE243-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.35	J	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	1.4	J	0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	1.8		0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	5.6		0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.68	U	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	1.9		0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	3.4		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	16	J	6.1	18		1
10138	Fluoranthene	206-44-0	7.4		0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	J	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	3.4		0.68	1.7		1
10138	Pyrene	129-00-0	4.6		0.68	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	0.63	U	0.63	1.7		1
10401	Dicamba	1918-00-9	0.65	J	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	78	U	78	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.12	U	0.12	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

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

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

Sample Description: SL-099-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA7-SS-0.0-0.5

LLI Sample # SW 6406199
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 10:40

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4312 SDG#: DE243-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Reporting limits were raised due to interference from the sample matrix.								
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	1.1	J	0.81	3.5		1
01363	p,p-DDD	72-54-8	0.14	U	0.14	0.35		1
01363	p,p-DDE	72-55-9	0.50		0.067	0.35		1
01363	p,p-DDT	50-29-3	0.78		0.067	0.35		1
01363	Delta BHC	319-86-8	0.058	J	0.037	0.17		1
01363	Dieldrin	60-57-1	0.11	U	0.11	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.086	U	0.086	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.18	U	0.18	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.29	U	0.29	0.35		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.50	U	0.50	1.7		1
01363	Mirex	2385-85-5	0.14	U	0.14	0.35		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

Maintenance and a new calibration was performed prior to the analysis of the samples. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site.

The TCX surrogate recovery for the associated method blank is outside the client specified limits of 50-130 at 41%. Since the recovery is within our in-house statistical limits of 28-128, the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	5.6		1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	4.3		0.34	1.7		1
10225	PCB-1260	11096-82-5	1.9		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	510		1

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

Sample Description: **SL-099-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA7-SS-0.0-0.5

LLI Sample # SW 6406199
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 10:40

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4312 SDG#: DE243-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C21-C30)	n.a.	2.5		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	9.2		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.41	U	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,300		6.06	20.0		1
07914	Boron	7440-42-8	3.24	J	0.361	5.01		1
01650	Calcium	7440-70-2	2,120		2.50	20.0		1
01654	Iron	7439-89-6	16,000		2.61	20.0		1
01656	Lithium	7439-93-2	22.2		0.62	2.0		1
01657	Magnesium	7439-95-4	3,440		0.441	10.0		1
06958	Manganese	7439-96-5	216		0.0361	0.501		1
10145	Phosphorus	7723-14-0	244		0.350	10.0		1
01662	Potassium	7440-09-7	2,530		11.3	50.1		1
01667	Sodium	7440-23-5	65.5	J	5.96	100		1
07968	Strontium	7440-24-6	17.5		0.0250	0.501		1
06969	Tin	7440-31-5	4.26	J	0.320	10.0		1
06970	Titanium	7440-32-6	1,060		0.0711	1.00		1
10146	Zirconium	7440-67-7	3.18	J	0.461	5.01		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.202	J	0.0748	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.05		0.0809	0.405		2
06126	Barium	7440-39-3	116		0.107	0.405		2
06127	Beryllium	7440-41-7	0.866		0.0162	0.101		2

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Lancaster Laboratories

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

Analysis Report

Sample Description: SL-099-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA7-SS-0.0-0.5

LLI Sample # SW 6406199
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 10:40

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4312 SDG#: DE243-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.192	0.0445	0.101		2
06131	Chromium	7440-47-3	20.1	0.121	0.405		2
06132	Cobalt	7440-48-4	6.07	0.0202	0.101		2
06133	Copper	7440-50-8	14.4	0.0809	0.405		2
06135	Lead	7439-92-1	17.6	0.0103	0.202		2
06138	Molybdenum	7439-98-7	1.16	0.0506	0.101		2
06139	Nickel	7440-02-0	13.6	0.101	0.405		2
06141	Selenium	7782-49-2	0.215 J	0.0587	0.405		2
06142	Silver	7440-22-4	0.0454 J	0.0144	0.101		2
06145	Thallium	7440-28-0	0.286	0.0303	0.101		2
06148	Vanadium	7440-62-2	41.2	0.0222	0.101		2
06149	Zinc	7440-66-6	72.0	0.566	3.03		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0147 J	0.0071	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6	0.81	1.0		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2 U	9.2	30.6		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20 U	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.42	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.1	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

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

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

Sample Description: **SL-099-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA7-SS-0.0-0.5

LLI Sample # SW 6406199
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 10:40

Submitted: 09/15/2011 09:20
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4312 SDG#: DE243-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11262SLD026	09/21/2011 19:34	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11262SLE026	09/27/2011 20:47	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11262SLE026	09/20/2011 06:50	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11262SLD026	09/20/2011 06:30	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112630003A	09/22/2011 06:14	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112630031A	09/24/2011 13:45	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112630022A	09/22/2011 20:52	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112630031A	09/21/2011 07:50	Katheryne V Sponheimer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112630022A	09/21/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112630003A	09/20/2011 22:00	Elaine F Stoltzfus	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112580039A	09/17/2011 02:55	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620010A	09/20/2011 17:49	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112630011A	09/21/2011 02:13	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112640002A	09/23/2011 01:36	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112640002A	09/21/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112630011A	09/20/2011 15:00	Wanda F Oswald	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112580039A	09/16/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620010A	09/19/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112595708002	09/24/2011 14:54	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112595708002	09/24/2011 14:54	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112595708002	09/24/2011 14:54	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112595708002	09/24/2011 14:54	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112595708002	09/24/2011 14:54	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112595708002	09/26/2011 21:36	John P Hook	1
06958	Manganese	SW-846 6010B	1	112595708002	09/24/2011 14:54	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112595708002	09/24/2011 14:54	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112595708002	09/24/2011 14:54	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112595708002	09/24/2011 14:54	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112595708002	09/24/2011 14:54	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112595708002	09/24/2011 14:54	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112595708002	09/24/2011 14:54	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112595708002	09/24/2011 14:54	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112591026001A	09/19/2011 10:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112591026001A	09/19/2011 10:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112591026001D	09/19/2011 10:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112591026001A	09/19/2011 10:29	Choon Y Tian	2

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

Sample Description: **SL-099-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA7-SS-0.0-0.5

LLI Sample # SW 6406199
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 10:40

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4312 SDG#: DE243-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112591026001A	09/19/2011 10:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112591026001A	09/19/2011 10:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112591026001A	09/19/2011 10:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112591026001A	09/19/2011 10:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112591026001A	09/19/2011 10:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112591026001C	09/19/2011 10:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112591026001A	09/19/2011 10:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112591026001B	09/19/2011 10:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112591026001A	09/19/2011 10:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112591026001A	09/19/2011 10:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112591026001A	09/19/2011 10:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112591026001A	09/19/2011 10:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112595711003	09/19/2011 10:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112595708002	09/18/2011 20:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112591026001	09/18/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112595711003	09/18/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11263263201B	09/22/2011 00:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11259621203B	09/17/2011 12:50	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11269243202A	09/27/2011 16:43	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11263263201B	09/20/2011 06:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11259621203B	09/16/2011 07:23	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11265039403B	09/22/2011 11:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11269243202A	09/26/2011 10:05	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162401A	09/20/2011 19:37	Scott W Freisher	1

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Lancaster Laboratories

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

Analysis Report

Sample Description: SL-144-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA7-SS-0.0-0.5

LLI Sample # SW 6406200
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 14:35

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4313 SDG#: DE243-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	1,700	U	1,700	5,000		10
04688	Benzidine	92-87-5	12,000	U	12,000	34,000		10
04688	Benzoic acid	65-85-0	1,700	U	1,700	5,000		10
04688	Benzyl alcohol	100-51-6	1,700	U	1,700	5,000		10
04688	4-Bromophenyl-phenylether	101-55-3	170	U	170	1,700		10
04688	Carbazole	86-74-8	170	U	170	1,700		10
04688	4-Chloro-3-methylphenol	59-50-7	340	U	340	1,700		10
04688	4-Chloroaniline	106-47-8	670	U	670	1,700		10
04688	bis(2-Chloroethoxy)methane	111-91-1	170	U	170	1,700		10
04688	bis(2-Chloroethyl)ether	111-44-4	170	U	170	1,700		10
04688	bis(2-Chloroisopropyl)ether	39638-32-9	170	U	170	1,700		10
04688	2-Chloronaphthalene	91-58-7	170	U	170	1,700		10
04688	2-Chlorophenol	95-57-8	170	U	170	1,700		10
04688	4-Chlorophenyl-phenylether	7005-72-3	340	U	340	1,700		10
04688	Dibenzofuran	132-64-9	170	U	170	1,700		10
04688	1,2-Dichlorobenzene	95-50-1	170	U	170	1,700		10
04688	1,3-Dichlorobenzene	541-73-1	170	U	170	1,700		10
04688	1,4-Dichlorobenzene	106-46-7	170	U	170	1,700		10
04688	3,3'-Dichlorobenzidine	91-94-1	1,000	U	1,000	3,400		10
04688	2,4-Dichlorophenol	120-83-2	170	U	170	1,700		10
04688	2,4-Dimethylphenol	105-67-9	340	U	340	1,700		10
04688	3,5-Dimethylphenol	108-68-9	340	U	340	1,700		10
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,700	U	1,700	5,000		10
04688	2,4-Dinitrophenol	51-28-5	3,400	U	3,400	10,000		10
04688	2,4-Dinitrotoluene	121-14-2	340	U	340	1,700		10
04688	2,6-Dinitrotoluene	606-20-2	170	U	170	1,700		10
04688	1,2-Diphenylhydrazine	122-66-7	170	U	170	1,700		10
04688	Hexachlorobenzene	118-74-1	170	U	170	1,700		10
04688	Hexachlorobutadiene	87-68-3	670	U	670	1,700		10
04688	Hexachlorocyclopentadiene	77-47-4	1,700	U	1,700	5,000		10
04688	Hexachloroethane	67-72-1	170	U	170	1,700		10
04688	Isophorone	78-59-1	170	U	170	1,700		10
04688	2-Methylphenol	95-48-7	340	U	340	1,700		10
04688	4-Methylphenol	106-44-5	340	U	340	1,700		10
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	170	U	170	1,700		10
04688	3-Nitroaniline	99-09-2	340	U	340	1,700		10
04688	4-Nitroaniline	100-01-6	670	U	670	1,700		10
04688	Nitrobenzene	98-95-3	170	U	170	1,700		10
04688	2-Nitrophenol	88-75-5	170	U	170	1,700		10
04688	4-Nitrophenol	100-02-7	1,700	U	1,700	5,000		10
04688	N-Nitroso-di-n-propylamine	621-64-7	170	U	170	1,700		10
04688	N-Nitrosodiphenylamine	86-30-6	170	U	170	1,700		10
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	1,700	U	1,700	5,000		10
04688	Phenol	108-95-2	170	U	170	1,700		10

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

Sample Description: SL-144-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA7-SS-0.0-0.5

LLI Sample # SW 6406200
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 14:35

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4313 SDG#: DE243-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Tetralin	119-64-2	1,700	U	1,700	1,700		10
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	170	U	170	1,700		10
04688	2,4,5-Trichlorophenol	95-95-4	340	U	340	1,700		10
04688	2,4,6-Trichlorophenol	88-06-2	340	U	340	1,700		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	6.7	U	6.7	17		10
10138	Acenaphthylene	208-96-8	3.4	U	3.4	17		10
10138	Anthracene	120-12-7	3.4	U	3.4	17		10
10138	Benzo(a)anthracene	56-55-3	6.7	U	6.7	17		10
10138	Benzo(a)pyrene	50-32-8	15	J	6.7	17		10
10138	Benzo(b)fluoranthene	205-99-2	46		6.7	17		10
10138	Benzo(g,h,i)perylene	191-24-2	15	J	6.7	17		10
10138	Benzo(k)fluoranthene	207-08-9	8.3	J	6.7	17		10
10138	Butylbenzylphthalate	85-68-7	60	U	60	180		10
10138	Di-n-butylphthalate	84-74-2	60	U	60	180		10
10138	Chrysene	218-01-9	37		3.4	17		10
10138	Dibenz(a,h)anthracene	53-70-3	6.9	J	6.7	17		10
10138	Diethylphthalate	84-66-2	60	U	60	180		10
10138	Dimethylphthalate	131-11-3	60	U	60	180		10
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	290		60	180		10
10138	Fluoranthene	206-44-0	11	J	6.7	17		10
10138	Fluorene	86-73-7	6.7	U	6.7	17		10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	6.7	U	6.7	17		10
10138	1-Methylnaphthalene	90-12-0	6.7	U	6.7	17		10
10138	2-Methylnaphthalene	91-57-6	6.7	U	6.7	17		10
10138	Naphthalene	91-20-3	6.7	U	6.7	17		10
10138	N-Nitrosodimethylamine	62-75-9	6.7	U	6.7	17		10
10138	Di-n-octylphthalate	117-84-0	60	U	60	180		10
10138	Phenanthrene	85-01-8	6.7	U	6.7	17		10
10138	Pyrene	129-00-0	10	J	6.7	17		10
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	10	U	10	10		1
10401	Dicamba	1918-00-9	0.46	J	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.29	U	0.29	0.29		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does							

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

Sample Description: **SL-144-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA7-SS-0.0-0.5

LLI Sample # SW 6406200
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 14:35

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4313 SDG#: DE243-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	1.8	J	0.80	3.4		1
01363	p,p-DDD	72-54-8	0.18	U	0.18	0.34		1
01363	p,p-DDE	72-55-9	1.2		0.066	0.34		1
01363	p,p-DDT	50-29-3	4.5		0.66	3.4		10
01363	Delta BHC	319-86-8	0.041	J	0.036	0.17		1
01363	Dieldrin	60-57-1	0.066	U	0.066	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.28	U	0.28	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34		1
01363	Endrin	72-20-8	0.15	U	0.15	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.20	U	0.20	0.34		1
01363	Endrin Ketone	53494-70-5	0.066	U	0.066	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.13	U	0.13	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.57	U	0.57	0.57		1
01363	Toxaphene	8001-35-2	19	U	19	19		1
	Maintenance and a new calibration was performed prior to the analysis of the samples. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site.							
	The TCX surrogate recovery for the associated method blank is outside the client specified limits of 50-130 at 41%. Since the recovery is within our in-house statistical limits of 28-128, the data is reported.							
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	10	U	10	33		10
10225	Aroclor 5442	12642-23-8	10	U	10	33		10
10225	Aroclor 5460	11126-42-4	160		10	33		10
10225	PCB-1016	12674-11-2	3.3	U	3.3	17		10
10225	PCB-1221	11104-28-2	3.3	U	3.3	17		10
10225	PCB-1232	11141-16-5	3.3	U	3.3	17		10
10225	PCB-1242	53469-21-9	3.3	U	3.3	17		10
10225	PCB-1248	12672-29-6	3.3	U	3.3	17		10
10225	PCB-1254	11097-69-1	27		3.3	17		10
10225	PCB-1260	11096-82-5	20		3.9	17		10
10225	PCB-1262	37324-23-5	3.3	U	3.3	17		10
10225	PCB-1268	11100-14-4	3.3	U	3.3	17		10

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

Sample Description: **SL-144-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA7-SS-0.0-0.5

LLI Sample # SW 6406200
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 14:35

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4313 SDG#: DE243-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,200		5.98	19.8		1
07914	Boron	7440-42-8	3.16	J	0.356	4.94		1
01650	Calcium	7440-70-2	2,890		2.47	19.8		1
01654	Iron	7439-89-6	18,200		2.58	19.8		1
01656	Lithium	7439-93-2	24.8		0.61	2.0		1
01657	Magnesium	7439-95-4	4,950		0.435	9.88		1
06958	Manganese	7439-96-5	273		0.0356	0.494		1
10145	Phosphorus	7723-14-0	505		0.346	9.88		1
01662	Potassium	7440-09-7	3,890		11.2	49.4		1
01667	Sodium	7440-23-5	82.1	J	5.88	98.8		1
07968	Strontium	7440-24-6	11.7		0.0247	0.494		1
06969	Tin	7440-31-5	3.04	J	0.316	9.88		1
06970	Titanium	7440-32-6	1,140		0.0701	0.988		1
10146	Zirconium	7440-67-7	2.51	J	0.454	4.94		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.178	J	0.0731	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.93		0.0790	0.395		2
06126	Barium	7440-39-3	94.5		0.105	0.395		2
06127	Beryllium	7440-41-7	0.581		0.0158	0.0988		2
06128	Cadmium	7440-43-9	0.427		0.0435	0.0988		2
06131	Chromium	7440-47-3	111		0.119	0.395		2
06132	Cobalt	7440-48-4	7.50		0.0198	0.0988		2
06133	Copper	7440-50-8	12.3		0.0790	0.395		2
06135	Lead	7439-92-1	29.1		0.0101	0.198		2
06138	Molybdenum	7439-98-7	1.88		0.0494	0.0988		2
06139	Nickel	7440-02-0	59.5		0.0988	0.395		2
06141	Selenium	7782-49-2	0.114	J	0.0573	0.395		2
06142	Silver	7440-22-4	0.101		0.0140	0.0988		2
06145	Thallium	7440-28-0	0.326		0.0296	0.0988		2
06148	Vanadium	7440-62-2	43.8		0.0217	0.0988		2
06149	Zinc	7440-66-6	109		0.553	2.96		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0210	J	0.0069	0.0985		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80	U	0.80	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.59	J	0.20	1.0		1

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

Sample Description: **SL-144-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA7-SS-0.0-0.5

LLI Sample # SW 6406200
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 14:35

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4313 SDG#: DE243-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.71	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.75	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11262SLD026	09/21/2011 19:58	Matthew S Woods	10
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11262SLE026	09/27/2011 21:21	Gregory J Drahovsky	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11262SLE026	09/20/2011 06:50	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11262SLD026	09/20/2011 06:30	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112630003A	09/22/2011 06:41	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112630031A	09/24/2011 14:55	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112630031A	09/26/2011 22:19	Melissa McDermott	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112630022A	09/23/2011 10:20	Jamie L Brillhart	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112630031A	09/21/2011 07:50	Katheryne V Sponheimer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112630022A	09/21/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112630003A	09/20/2011 22:00	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112595708002	09/24/2011 15:06	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112595708002	09/24/2011 15:06	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112595708002	09/24/2011 15:06	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112595708002	09/24/2011 15:06	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112595708002	09/24/2011 15:06	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112595708002	09/26/2011 21:40	John P Hook	1
06958	Manganese	SW-846 6010B	1	112595708002	09/24/2011 15:06	Eric L Eby	1

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

Sample Description: SL-144-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA7-SS-0.0-0.5

LLI Sample # SW 6406200
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 14:35

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4313 SDG#: DE243-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	112595708002	09/24/2011 15:06	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112595708002	09/24/2011 15:06	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112595708002	09/24/2011 15:06	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112595708002	09/24/2011 15:06	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112595708002	09/24/2011 15:06	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112595708002	09/24/2011 15:06	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112595708002	09/24/2011 15:06	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112591026001A	09/19/2011 10:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112591026001A	09/19/2011 10:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112591026001D	09/19/2011 10:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112591026001A	09/19/2011 10:32	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112591026001A	09/19/2011 10:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112591026001A	09/19/2011 10:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112591026001A	09/19/2011 10:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112591026001A	09/19/2011 10:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112591026001A	09/19/2011 10:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112591026001C	09/19/2011 10:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112591026001A	09/19/2011 10:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112591026001B	09/19/2011 10:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112591026001A	09/19/2011 10:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112591026001A	09/19/2011 10:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112591026001A	09/19/2011 10:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112591026001A	09/19/2011 10:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112595711003	09/19/2011 11:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112595708002	09/18/2011 20:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112591026001	09/18/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112595711003	09/18/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11263263201B	09/22/2011 00:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11259621203A	09/17/2011 00:03	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11269243202A	09/27/2011 17:05	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11263263201B	09/20/2011 06:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11259621203B	09/16/2011 07:23	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11265039403B	09/22/2011 11:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11269243202A	09/26/2011 10:05	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162401A	09/20/2011 19:37	Scott W Freisher	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-145-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA7-SS-0.0-0.5

LLI Sample # SW 6406201
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 13:55

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4314 SDG#: DE243-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1

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

Sample Description: **SL-145-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-145-SA7-SS-0.0-0.5

LLI Sample # SW 6406201
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 13:55

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4314 SDG#: DE243-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	1.3	J	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	2.1		0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	8.3		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.91	J	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	1.2	J	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	3.1		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	140		6.0	18		1
10138	Fluoranthene	206-44-0	4.3		0.67	1.7		1
10138	Fluorene	86-73-7	0.73	J	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	J	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.96	J	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	2.0		0.67	1.7		1
10138	Pyrene	129-00-0	3.4		0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	7.7	U	7.7	7.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.16	U	0.16	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

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

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

Sample Description: SL-145-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA7-SS-0.0-0.5

LLI Sample # SW 6406201
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 13:55

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4314 SDG#: DE243-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Reporting limits were raised due to interference from the sample matrix.								
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.12	U	0.12	0.34		1
01363	p,p-DDE	72-55-9	0.26	U	0.26	0.34		1
01363	p,p-DDT	50-29-3	0.98		0.066	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.066	U	0.066	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.19	U	0.19	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34		1
01363	Endrin	72-20-8	0.066	U	0.066	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.12	U	0.12	0.34		1
01363	Endrin Ketone	53494-70-5	0.066	U	0.066	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.071	U	0.071	0.34		1
01363	Toxaphene	8001-35-2	8.9	U	8.9	8.9		1

Maintenance and a new calibration was performed prior to the analysis of the samples. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site.

The TCX surrogate recovery for the associated method blank is outside the client specified limits of 50-130 at 41%. Since the recovery is within our in-house statistical limits of 28-128, the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	17		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	11		0.33	1.7		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	13,000		6.03	19.9		1

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

Sample Description: **SL-145-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-145-SA7-SS-0.0-0.5

LLI Sample # SW 6406201
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 13:55

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4314 SDG#: DE243-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	2.84	J	0.359	4.98		1
01650	Calcium	7440-70-2	2,860		2.49	19.9		1
01654	Iron	7439-89-6	18,200		2.60	19.9		1
01656	Lithium	7439-93-2	25.7		0.62	2.0		1
01657	Magnesium	7439-95-4	4,980		0.439	9.97		1
06958	Manganese	7439-96-5	278		0.0359	0.498		1
10145	Phosphorus	7723-14-0	430		0.349	9.97		1
01662	Potassium	7440-09-7	3,310		11.3	49.8		1
01667	Sodium	7440-23-5	85.7	J	5.93	99.7		1
07968	Strontium	7440-24-6	11.9		0.0249	0.498		1
06969	Tin	7440-31-5	3.02	J	0.319	9.97		1
06970	Titanium	7440-32-6	1,160		0.0708	0.997		1
10146	Zirconium	7440-67-7	2.90	J	0.459	4.98		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.164	J	0.0730	0.197		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.59		0.0790	0.395		2
06126	Barium	7440-39-3	101		0.105	0.395		2
06127	Beryllium	7440-41-7	0.624		0.0158	0.0987		2
06128	Cadmium	7440-43-9	0.149		0.0434	0.0987		2
06131	Chromium	7440-47-3	22.0		0.118	0.395		2
06132	Cobalt	7440-48-4	6.81		0.0197	0.0987		2
06133	Copper	7440-50-8	9.68		0.0790	0.395		2
06135	Lead	7439-92-1	20.1		0.0101	0.197		2
06138	Molybdenum	7439-98-7	0.621		0.0494	0.0987		2
06139	Nickel	7440-02-0	13.5		0.0987	0.395		2
06141	Selenium	7782-49-2	0.150	J	0.0572	0.395		2
06142	Silver	7440-22-4	0.0383	J	0.0140	0.0987		2
06145	Thallium	7440-28-0	0.332		0.0296	0.0987		2
06148	Vanadium	7440-62-2	44.5		0.0217	0.0987		2
06149	Zinc	7440-66-6	81.1		0.553	2.96		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0069	U	0.0069	0.0983		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1

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

Lancaster Laboratories

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Analysis Report

Sample Description: SL-145-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA7-SS-0.0-0.5

LLI Sample # SW 6406201
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 13:55

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4314 SDG#: DE243-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.14	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	0.67	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11262SLD026	09/21/2011 20:21	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11262SLE026	09/27/2011 21:54	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11262SLE026	09/20/2011 06:50	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11262SLD026	09/20/2011 06:30	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112630003A	09/22/2011 07:09	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112630031A	09/24/2011 15:23	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112630022A	09/22/2011 21:29	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112630031A	09/21/2011 07:50	Katheryne V Sponheimer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112630022A	09/21/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112630003A	09/20/2011 22:00	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112595708002	09/24/2011 15:09	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112595708002	09/24/2011 15:09	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112595708002	09/24/2011 15:09	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112595708002	09/24/2011 15:09	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112595708002	09/24/2011 15:09	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112595708002	09/26/2011 21:52	John P Hook	1
06958	Manganese	SW-846 6010B	1	112595708002	09/24/2011 15:09	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112595708002	09/24/2011 15:09	Eric L Eby	1

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

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Analysis Report

Sample Description: SL-145-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA7-SS-0.0-0.5

LLI Sample # SW 6406201
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 13:55

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4314 SDG#: DE243-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	112595708002	09/24/2011 15:09	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112595708002	09/24/2011 15:09	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112595708002	09/24/2011 15:09	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112595708002	09/24/2011 15:09	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112595708002	09/24/2011 15:09	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112595708002	09/24/2011 15:09	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112591026001A	09/19/2011 10:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112591026001A	09/19/2011 10:41	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112591026001D	09/19/2011 10:41	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112591026001A	09/19/2011 10:41	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112591026001A	09/19/2011 10:41	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112591026001A	09/19/2011 10:41	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112591026001A	09/19/2011 10:41	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112591026001A	09/19/2011 10:41	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112591026001A	09/19/2011 10:41	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112591026001C	09/19/2011 10:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112591026001A	09/19/2011 10:41	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112591026001B	09/19/2011 10:41	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112591026001A	09/19/2011 10:41	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112591026001A	09/19/2011 10:41	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112591026001A	09/19/2011 10:41	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112591026001A	09/19/2011 10:41	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112595711003	09/19/2011 11:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112595708002	09/18/2011 20:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112591026001	09/18/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112595711003	09/18/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11263263201B	09/22/2011 01:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11259621203A	09/17/2011 00:26	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11269243202A	09/27/2011 17:12	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11263263201B	09/20/2011 06:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11259621203B	09/16/2011 07:23	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11265039403B	09/22/2011 11:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11269243202A	09/26/2011 10:05	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162401A	09/20/2011 19:37	Scott W Freisher	1

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

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Analysis Report

Sample Description: SL-183-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA7-SS-0.0-0.5

LLI Sample # SW 6406202
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 11:30

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4315 SDG#: DE243-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1

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

Sample Description: **SL-183-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-183-SA7-SS-0.0-0.5

LLI Sample # SW 6406202
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 11:30

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4315 SDG#: DE243-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.47	J	0.33	1.7		1
10138	Anthracene	120-12-7	1.2	J	0.33	1.7		1
10138	Benzo(a)anthracene	56-55-3	1.7		0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	2.2		0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	8.9		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	3.6		0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	1.8		0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	5.0		0.33	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	1.1	J	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	45		6.0	18		1
10138	Fluoranthene	206-44-0	7.4		0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.4	J	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	2.2		0.67	1.7		1
10138	Pyrene	129-00-0	5.7		0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	2.9		0.63	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.087	J	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.16	J	0.076	0.17		1

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

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

Sample Description: **SL-183-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-183-SA7-SS-0.0-0.5

LLI Sample # SW 6406202
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 11:30

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4315 SDG#: DE243-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.33	U	0.33	0.84		5
01363	Alpha BHC	319-84-6	0.17	U	0.17	0.84		5
01363	Beta BHC	319-85-7	0.30	U	0.30	0.84		5
01363	Gamma BHC - Lindane	58-89-9	0.17	U	0.17	0.84		5
01363	Chlordane	57-74-9	9.4	J	4.0	17		5
01363	p,p-DDD	72-54-8	0.33	U	0.33	1.7		5
01363	p,p-DDE	72-55-9	3.9	U	3.9	3.9		5
01363	p,p-DDT	50-29-3	8.4		1.3	6.8		20
01363	Delta BHC	319-86-8	0.18	U	0.18	0.84		5
01363	Dieldrin	60-57-1	4.4	U	4.4	4.4		5
01363	Endosulfan I	959-98-8	0.22	U	0.22	0.84		5
01363	Endosulfan II	33213-65-9	1.4	U	1.4	1.7		5
01363	Endosulfan Sulfate	1031-07-8	0.33	U	0.33	1.7		5
01363	Endrin	72-20-8	1.3	U	1.3	1.7		5
01363	Endrin Aldehyde	7421-93-4	1.5	U	1.5	1.7		5
01363	Endrin Ketone	53494-70-5	0.33	U	0.33	1.7		5
01363	Heptachlor	76-44-8	0.30	U	0.30	0.84		5
01363	Heptachlor Epoxide	1024-57-3	1.4	U	1.4	1.4		5
01363	Methoxychlor	72-43-5	1.7	U	1.7	8.4		5
01363	Mirex	2385-85-5	0.37	U	0.37	1.7		5
01363	Toxaphene	8001-35-2	51	U	51	51		5

Maintenance and a new calibration was performed prior to the analysis of the samples. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site.

The TCX surrogate recovery for the associated method blank is outside the client specified limits of 50-130 at 41%. Since the recovery is within our in-house statistical limits of 28-128, the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.1	U	5.1	17		5
10225	Aroclor 5442	12642-23-8	5.1	U	5.1	17		5
10225	Aroclor 5460	11126-42-4	41		5.1	17		5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.6		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.6		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.6		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.6		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.6		5
10225	PCB-1254	11097-69-1	73		1.7	8.6		5
10225	PCB-1260	11096-82-5	33		2.0	8.6		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.6		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.6		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,300		6.13	20.3		1
07914	Boron	7440-42-8	4.56	J	0.365	5.07		1

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

Sample Description: **SL-183-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-183-SA7-SS-0.0-0.5

LLI Sample # SW 6406202
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 11:30

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4315 SDG#: DE243-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	3,160		2.53	20.3		1
01654	Iron	7439-89-6	16,600		2.64	20.3		1
01656	Lithium	7439-93-2	19.2		0.63	2.0		1
01657	Magnesium	7439-95-4	4,070		0.446	10.1		1
06958	Manganese	7439-96-5	254		0.0365	0.507		1
10145	Phosphorus	7723-14-0	417		0.355	10.1		1
01662	Potassium	7440-09-7	3,340		11.4	50.7		1
01667	Sodium	7440-23-5	106		6.03	101		1
07968	Strontium	7440-24-6	16.5		0.0253	0.507		1
06969	Tin	7440-31-5	2.94	J	0.324	10.1		1
06970	Titanium	7440-32-6	1,020		0.0719	1.01		1
10146	Zirconium	7440-67-7	2.89	J	0.466	5.07		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.205		0.0742	0.201		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.47		0.0803	0.401		2
06126	Barium	7440-39-3	90.9		0.106	0.401		2
06127	Beryllium	7440-41-7	0.652		0.0161	0.100		2
06128	Cadmium	7440-43-9	0.580		0.0441	0.100		2
06131	Chromium	7440-47-3	20.3		0.120	0.401		2
06132	Cobalt	7440-48-4	6.83		0.0201	0.100		2
06133	Copper	7440-50-8	13.1		0.0803	0.401		2
06135	Lead	7439-92-1	36.6		0.0102	0.201		2
06138	Molybdenum	7439-98-7	0.818		0.0502	0.100		2
06139	Nickel	7440-02-0	14.1		0.100	0.401		2
06141	Selenium	7782-49-2	0.124	J	0.0582	0.401		2
06142	Silver	7440-22-4	0.0693	J	0.0142	0.100		2
06145	Thallium	7440-28-0	0.262		0.0301	0.100		2
06148	Vanadium	7440-62-2	41.4		0.0221	0.100		2
06149	Zinc	7440-66-6	147		0.562	3.01		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0309	J	0.0068	0.0967		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.97	J	0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.56	J	0.20	1.0		1

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

Sample Description: SL-183-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA7-SS-0.0-0.5

LLI Sample # SW 6406202
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 11:30

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4315 SDG#: DE243-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	6.89	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	1.3	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11262SLD026	09/21/2011 20:45	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11262SLE026	09/28/2011 05:34	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11262SLE026	09/20/2011 06:50	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11262SLD026	09/20/2011 06:30	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112630003A	09/22/2011 07:36	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112630031A	09/24/2011 19:22	Melissa McDermott	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	112630031A	09/24/2011 19:36	Melissa McDermott	20
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112630022A	09/22/2011 21:48	Jamie L Brillhart	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112630031A	09/21/2011 07:50	Katheryne V Sponheimer	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112630022A	09/21/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112630003A	09/20/2011 22:00	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112595708002	09/24/2011 15:13	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112595708002	09/24/2011 15:13	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112595708002	09/24/2011 15:13	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112595708002	09/24/2011 15:13	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112595708002	09/24/2011 15:13	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112595708002	09/26/2011 21:56	John P Hook	1
06958	Manganese	SW-846 6010B	1	112595708002	09/24/2011 15:13	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112595708002	09/24/2011 15:13	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112595708002	09/24/2011 15:13	Eric L Eby	1

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

Sample Description: **SL-183-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-183-SA7-SS-0.0-0.5

LLI Sample # SW 6406202
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 11:30

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4315 SDG#: DE243-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	112595708002	09/24/2011 15:13	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112595708002	09/24/2011 15:13	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112595708002	09/24/2011 15:13	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112595708002	09/24/2011 15:13	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112595708002	09/24/2011 15:13	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112591026001A	09/19/2011 10:44	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112591026001A	09/19/2011 10:44	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112591026001D	09/19/2011 10:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112591026001A	09/19/2011 10:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112591026001A	09/19/2011 10:44	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112591026001A	09/19/2011 10:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112591026001A	09/19/2011 10:44	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112591026001A	09/19/2011 10:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112591026001A	09/19/2011 10:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112591026001C	09/19/2011 10:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112591026001A	09/19/2011 10:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112591026001B	09/19/2011 10:44	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112591026001A	09/19/2011 10:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112591026001A	09/19/2011 10:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112591026001A	09/19/2011 10:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112591026001A	09/19/2011 10:44	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112595711003	09/19/2011 11:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112595708002	09/18/2011 20:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112591026001	09/18/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112595711003	09/18/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11263263201B	09/22/2011 01:15	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11259621203A	09/17/2011 00:49	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11269243202A	09/27/2011 17:34	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11263263201B	09/20/2011 06:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11259621203B	09/16/2011 07:23	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11265039403B	09/22/2011 11:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11269243202A	09/26/2011 10:05	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162401A	09/20/2011 19:37	Scott W Freisher	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-339-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-339-SA5B-SB-9.0-10.0

LLI Sample # SW 6406203
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 10:09

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4316 SDG#: DE243-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	95.4		17.7	35.5		1
	The surrogate recoveries were outside of QC limits. The matrix spike and matrix spike duplicate samples were analyzed and surrogate recoveries were again outside of QC limits, indicating a matrix effect.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	26	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1

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

Sample Description: SL-339-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-339-SA5B-SB-9.0-10.0

LLI Sample # SW 6406203
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 10:09

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4316 SDG#: DE243-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.1		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	1.1	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	1.6	J	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	1.6	J	0.72	1.8		1
10138	Pyrene	129-00-0	1.6	J	0.72	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	1.9	U	1.9	9.6		220.85
	Reporting limits were raised due to sample foaming.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1

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Sample Description: SL-339-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-339-SA5B-SB-9.0-10.0

LLI Sample # SW 6406203
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 10:09

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4316 SDG#: DE243-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	5,900		650	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	1.8	J	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.70	J	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1

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Sample Description: SL-339-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-339-SA5B-SB-9.0-10.0

LLI Sample # SW 6406203
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 10:09

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

E4316 SDG#: DE243-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.2	U	2.2	6.5		5
10199	EFH (C15-C20)	n.a.	2.3	J	2.2	6.5		5
10199	EFH (C21-C30)	n.a.	41		2.2	6.5		5
10199	EFH (C30 - C40)	n.a.	140		2.2	6.5		5
10199	EFH (C8-C11)	n.a.	2.2	U	2.2	6.5		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,500		6.30	20.8		1
07914	Boron	7440-42-8	3.59	J	0.375	5.20		1
01650	Calcium	7440-70-2	10,000		2.60	20.8		1
01654	Iron	7439-89-6	20,500		2.72	20.8		1
01656	Lithium	7439-93-2	21.5		0.65	2.1		1
01657	Magnesium	7439-95-4	4,600		0.458	10.4		1
06958	Manganese	7439-96-5	280		0.0375	0.520		1
10145	Phosphorus	7723-14-0	482		0.364	10.4		1
01662	Potassium	7440-09-7	3,250		11.8	52.0		1
01667	Sodium	7440-23-5	445		6.19	104		1
07968	Strontium	7440-24-6	30.4		0.0260	0.520		1
06969	Tin	7440-31-5	2.70	J	0.333	10.4		1
06970	Titanium	7440-32-6	1,140		0.0739	1.04		1
10146	Zirconium	7440-67-7	0.844	J	0.479	5.20		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.166	J	0.0793	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.18		0.0857	0.429		2
06126	Barium	7440-39-3	118		0.114	0.429		2

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Sample Description: SL-339-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-339-SA5B-SB-9.0-10.0

LLI Sample # SW 6406203
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 10:09

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4316 SDG#: DE243-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.684		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.196		0.0471	0.107		2
06131	Chromium	7440-47-3	22.8		0.129	0.429		2
06132	Cobalt	7440-48-4	6.84		0.0214	0.107		2
06133	Copper	7440-50-8	11.7		0.0857	0.429		2
06135	Lead	7439-92-1	6.91		0.0109	0.214		2
06138	Molybdenum	7439-98-7	0.991		0.0536	0.107		2
06139	Nickel	7440-02-0	14.1		0.107	0.429		2
06141	Selenium	7782-49-2	0.150	J	0.0621	0.429		2
06142	Silver	7440-22-4	0.0520	J	0.0152	0.107		2
06145	Thallium	7440-28-0	0.293		0.0321	0.107		2
06148	Vanadium	7440-62-2	42.8		0.0236	0.107		2
06149	Zinc	7440-66-6	84.1		0.600	3.21		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0210	J	0.0072	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.86	U	0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.86	U	0.86	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	10.2		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.6		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

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Lancaster Laboratories

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

Analysis Report

Sample Description: SL-339-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-339-SA5B-SB-9.0-10.0

LLI Sample # SW 6406203
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 10:09

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4316 SDG#: DE243-16

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-339-SA5B-SB-9.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11265SLB026	09/29/2011 17:12	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11262SLD026	09/21/2011 21:09	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11262SLE026	09/28/2011 01:15	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11265SLB026	09/23/2011 10:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11262SLE026	09/20/2011 06:50	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11262SLD026	09/20/2011 06:30	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11264A34A	09/21/2011 14:02	Marie D John	220.85
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201125825563	09/15/2011 14:13	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201125825563	09/15/2011 14:13	Christopher D Meeks	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112640025A	09/24/2011 08:42	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112620004A	09/21/2011 20:35	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112630022A	09/22/2011 22:07	Jamie L Brillhart	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112630022A	09/21/2011 10:30	Olivia Arosemena	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112620004A	09/19/2011 17:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112640025A	09/22/2011 11:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112580039A	09/17/2011 03:10	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620010A	09/20/2011 18:02	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112630011A	09/21/2011 03:41	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112640002A	09/23/2011 03:11	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112640002A	09/21/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112630011A	09/20/2011 15:00	Wanda F Oswald	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112580039A	09/16/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620010A	09/19/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112595708002	09/26/2011 22:00	John P Hook	1
07914	Boron	SW-846 6010B	1	112595708002	09/26/2011 22:00	John P Hook	1
01650	Calcium	SW-846 6010B	1	112595708002	09/26/2011 22:00	John P Hook	1
01654	Iron	SW-846 6010B	1	112595708002	09/26/2011 22:00	John P Hook	1
01656	Lithium	SW-846 6010B	1	112595708002	09/26/2011 22:00	John P Hook	1

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Sample Description: SL-339-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-339-SA5B-SB-9.0-10.0

LLI Sample # SW 6406203
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 10:09

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E4316 SDG#: DE243-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	112595708002	09/26/2011 22:00	John P Hook	1
06958	Manganese	SW-846 6010B	1	112595708002	09/26/2011 22:00	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112595708002	09/26/2011 22:00	John P Hook	1
01662	Potassium	SW-846 6010B	1	112595708002	09/26/2011 22:00	John P Hook	1
01667	Sodium	SW-846 6010B	1	112595708002	09/26/2011 22:00	John P Hook	1
07968	Strontium	SW-846 6010B	1	112595708002	09/26/2011 22:00	John P Hook	1
06969	Tin	SW-846 6010B	1	112595708002	09/26/2011 22:00	John P Hook	1
06970	Titanium	SW-846 6010B	1	112595708002	09/26/2011 22:00	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112595708002	09/26/2011 22:00	John P Hook	1
06124	Antimony	SW-846 6020	1	112591026001A	09/19/2011 10:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112591026001A	09/19/2011 10:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112591026001D	09/19/2011 10:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112591026001A	09/19/2011 10:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112591026001A	09/19/2011 10:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112591026001A	09/19/2011 10:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112591026001A	09/19/2011 10:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112591026001A	09/19/2011 10:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112591026001A	09/19/2011 10:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112591026001C	09/19/2011 10:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112591026001A	09/19/2011 10:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112591026001B	09/19/2011 10:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112591026001A	09/19/2011 10:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112591026001A	09/19/2011 10:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112591026001A	09/19/2011 10:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112591026001A	09/19/2011 10:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112595711003	09/19/2011 11:04	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112595708002	09/18/2011 20:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112591026001	09/18/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112595711003	09/18/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11263263201B	09/21/2011 20:11	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11263263201B	09/21/2011 20:11	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11259621203A	09/17/2011 01:12	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11269243202A	09/27/2011 17:48	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11263102201A	09/20/2011 19:03	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11263263201B	09/20/2011 06:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11259621203B	09/16/2011 07:23	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11263102201A	09/20/2011 16:00	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11265039403B	09/22/2011 11:25	Michele L Graham	1

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

Sample Description: **SL-339-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-339-SA5B-SB-9.0-10.0

LLI Sample # SW 6406203
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 10:09

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4316 SDG#: DE243-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11269243202A	09/26/2011 10:05	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11272162401A	09/29/2011 21:46	Scott W Freisher	1

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Lancaster Laboratories

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

Analysis Report

Sample Description: SL-340-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-340-SA5B-SB-9.0-10.0

LLI Sample # SW 6406204
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 08:38

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4317 SDG#: DE243-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.5	U	18.5	37.0		1
	The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Fluoranthene	206-44-0	23	J	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1

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Sample Description: SL-340-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-340-SA5B-SB-9.0-10.0

LLI Sample # SW 6406204
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 08:38

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4317 SDG#: DE243-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	1.3	J	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	3.2		0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	3.5		0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	1.9		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	7.0		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.6	J	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	1.6	J	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	6.4		0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	J	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	58		6.8	20		1
10138	Fluorene	86-73-7	1.4	J	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.85	J	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	1.1	J	0.75	1.9		1
10138	Naphthalene	91-20-3	0.96	J	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	8.9		0.75	1.9		1
10138	Pyrene	129-00-0	11		0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.63
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1

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Sample Description: SL-340-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-340-SA5B-SB-9.0-10.0

LLI Sample # SW 6406204
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 08:38

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4317 SDG#: DE243-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	140	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	4,800		680	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	2.9		0.37	1.9		1
10225	PCB-1260	11096-82-5	0.81	J	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	

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Sample Description: SL-340-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-340-SA5B-SB-9.0-10.0

LLI Sample # SW 6406204
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 08:38

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4317 SDG#: DE243-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.3	U	2.3	6.8		5
10199	EFH (C15-C20)	n.a.	5.3	J	2.3	6.8		5
10199	EFH (C21-C30)	n.a.	32		2.3	6.8		5
10199	EFH (C30 - C40)	n.a.	100		2.3	6.8		5
10199	EFH (C8-C11)	n.a.	2.3	U	2.3	6.8		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,600		6.75	22.3		1
07914	Boron	7440-42-8	5.12	J	0.402	5.58		1
01650	Calcium	7440-70-2	6,210		2.79	22.3		1
01654	Iron	7439-89-6	16,800		2.91	22.3		1
01656	Lithium	7439-93-2	19.3		0.69	2.2		1
01657	Magnesium	7439-95-4	4,220		0.491	11.2		1
06958	Manganese	7439-96-5	264		0.0402	0.558		1
10145	Phosphorus	7723-14-0	432		0.391	11.2		1
01662	Potassium	7440-09-7	2,800		12.6	55.8		1
01667	Sodium	7440-23-5	518		6.64	112		1
07968	Strontium	7440-24-6	26.6		0.0279	0.558		1
06969	Tin	7440-31-5	2.98	J	0.357	11.2		1
06970	Titanium	7440-32-6	1,110		0.0793	1.12		1
10146	Zirconium	7440-67-7	3.78	J	0.513	5.58		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.122	J	0.0818	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.57		0.0884	0.442		2
06126	Barium	7440-39-3	103		0.117	0.442		2

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Sample Description: SL-340-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-340-SA5B-SB-9.0-10.0

LLI Sample # SW 6406204
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 08:38

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4317 SDG#: DE243-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.526		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.325		0.0486	0.111		2
06131	Chromium	7440-47-3	19.8		0.133	0.442		2
06132	Cobalt	7440-48-4	5.75		0.0221	0.111		2
06133	Copper	7440-50-8	10.6		0.0884	0.442		2
06135	Lead	7439-92-1	18.7		0.0113	0.221		2
06138	Molybdenum	7439-98-7	1.04		0.0553	0.111		2
06139	Nickel	7440-02-0	13.1		0.111	0.442		2
06141	Selenium	7782-49-2	0.175	J	0.0641	0.442		2
06142	Silver	7440-22-4	0.0417	J	0.0157	0.111		2
06145	Thallium	7440-28-0	0.260		0.0332	0.111		2
06148	Vanadium	7440-62-2	39.7		0.0243	0.111		2
06149	Zinc	7440-66-6	68.8		0.619	3.32		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0151	J	0.0075	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.91	J	0.90	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	10.6		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

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

Sample Description: **SL-340-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-340-SA5B-SB-9.0-10.0

LLI Sample # SW 6406204
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 08:38

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4317 SDG#: DE243-17

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-340-SA5B-SB-9.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11265SLB026	09/29/2011 18:10	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11262SLD026	09/21/2011 21:33	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11262SLE026	09/28/2011 06:07	Mark A Clark	1
11630	NDMA Soil Microwave	SW-846 3546	1	11265SLB026	09/23/2011 10:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11262SLE026	09/20/2011 06:50	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11262SLD026	09/20/2011 06:30	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11264A34A	09/22/2011 02:01	Marie D John	21.63
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201125825563	09/15/2011 14:14	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201125825563	09/15/2011 14:14	Christopher D Meeks	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112640025A	09/24/2011 09:25	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112620004A	09/21/2011 20:44	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112630022A	09/22/2011 22:26	Jamie L Brillhart	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112630022A	09/21/2011 10:30	Olivia Arosemena	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112620004A	09/19/2011 17:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112640025A	09/22/2011 11:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112580039A	09/17/2011 03:24	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620010A	09/20/2011 18:14	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112630011A	09/21/2011 04:03	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112640002A	09/23/2011 03:35	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112640002A	09/21/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112630011A	09/20/2011 15:00	Wanda F Oswald	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112580039A	09/16/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620010A	09/19/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112595708002	09/24/2011 15:21	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112595708002	09/24/2011 15:21	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112595708002	09/24/2011 15:21	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112595708002	09/24/2011 15:21	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112595708002	09/24/2011 15:21	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112595708002	09/26/2011 22:04	John P Hook	1

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Sample Description: **SL-340-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-340-SA5B-SB-9.0-10.0

LLI Sample # SW 6406204
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 08:38

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4317 SDG#: DE243-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	112595708002	09/24/2011 15:21	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112595708002	09/24/2011 15:21	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112595708002	09/24/2011 15:21	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112595708002	09/24/2011 15:21	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112595708002	09/24/2011 15:21	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112595708002	09/24/2011 15:21	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112595708002	09/24/2011 15:21	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112595708002	09/24/2011 15:21	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112591026001A	09/19/2011 10:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112591026001A	09/19/2011 10:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112591026001D	09/19/2011 10:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112591026001A	09/19/2011 10:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112591026001A	09/19/2011 10:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112591026001A	09/19/2011 10:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112591026001A	09/19/2011 10:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112591026001A	09/19/2011 10:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112591026001A	09/19/2011 10:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112591026001C	09/19/2011 10:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112591026001A	09/19/2011 10:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112591026001B	09/19/2011 10:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112591026001A	09/19/2011 10:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112591026001A	09/19/2011 10:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112591026001A	09/19/2011 10:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112591026001A	09/19/2011 10:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112595711003	09/19/2011 11:05	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112595708002	09/18/2011 20:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112591026001	09/18/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112595711003	09/18/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11263263201B	09/21/2011 20:24	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11263263201B	09/21/2011 20:24	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11259621203A	09/17/2011 01:35	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11269243202A	09/27/2011 17:56	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11263102201A	09/20/2011 19:04	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11263263201B	09/20/2011 06:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11259621203B	09/16/2011 07:23	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11263102201A	09/20/2011 16:00	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11265039403B	09/22/2011 11:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11269243202A	09/26/2011 10:05	Michelle L Lalli	1

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Sample Description: **SL-340-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-340-SA5B-SB-9.0-10.0

LLI Sample # SW 6406204
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 08:38

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4317 SDG#: DE243-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11272162401A	09/29/2011 21:46	Scott W Freisher	1

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-041-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA7-SB-4.0-5.0

LLI Sample # SW 6406205
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 12:36

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4318 SDG#: DE243-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: **SL-041-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA7-SB-4.0-5.0

LLI Sample # SW 6406205
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 12:36

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4318 SDG#: DE243-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.3	U	6.3	19		1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.8		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.8		1
10138	Pyrene	129-00-0	0.70	U	0.70	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		25.56
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1

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Sample Description: SL-041-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA7-SB-4.0-5.0

LLI Sample # SW 6406205
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 12:36

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4318 SDG#: DE243-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C21-C30)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	1.3	J	0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3		1

The surrogate data is outside the QC limits. The sample was re-extracted within the method holding time. Sample surrogate results from the reextraction are within the limits. Target analytes were detected in the reextracted method blank associated with the sample as noted in the QC summary. Similar results were obtained in both extracts. The rextracted data is reported.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,000		6.20	20.5		1
07914	Boron	7440-42-8	5.28		0.369	5.12		1
01650	Calcium	7440-70-2	2,030		2.56	20.5		1
01654	Iron	7439-89-6	17,200		2.67	20.5		1
01656	Lithium	7439-93-2	25.1		0.63	2.0		1
01657	Magnesium	7439-95-4	4,330		0.451	10.2		1
06958	Manganese	7439-96-5	252		0.0369	0.512		1
10145	Phosphorus	7723-14-0	219		0.358	10.2		1
01662	Potassium	7440-09-7	1,810		11.6	51.2		1
01667	Sodium	7440-23-5	106		6.09	102		1
07968	Strontium	7440-24-6	19.9		0.0256	0.512		1

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

Sample Description: **SL-041-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA7-SB-4.0-5.0

LLI Sample # SW 6406205
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 12:36

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4318 SDG#: DE243-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06969	Tin	7440-31-5	2.98	J	0.328	10.2		1
06970	Titanium	7440-32-6	1,270		0.0727	1.02		1
10146	Zirconium	7440-67-7	3.03	J	0.471	5.12		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0758	U	0.0758	0.205		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	15.4		0.0819	0.410		2
06126	Barium	7440-39-3	126		0.109	0.410		2
06127	Beryllium	7440-41-7	0.920		0.0164	0.102		2
06128	Cadmium	7440-43-9	0.0779	J	0.0451	0.102		2
06131	Chromium	7440-47-3	20.9		0.123	0.410		2
06132	Cobalt	7440-48-4	7.90		0.0205	0.102		2
06133	Copper	7440-50-8	6.49		0.0819	0.410		2
06135	Lead	7439-92-1	6.30		0.0104	0.205		2
06138	Molybdenum	7439-98-7	0.662		0.0512	0.102		2
06139	Nickel	7440-02-0	13.8		0.102	0.410		2
06141	Selenium	7782-49-2	0.116	J	0.0594	0.410		2
06142	Silver	7440-22-4	0.0887	J	0.0145	0.102		2
06145	Thallium	7440-28-0	0.319		0.0307	0.102		2
06148	Vanadium	7440-62-2	43.4		0.0225	0.102		2
06149	Zinc	7440-66-6	57.6		0.574	3.07		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	U	0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.83	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.56	J	0.21	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.78		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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

Sample Description: **SL-041-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA7-SB-4.0-5.0

LLI Sample # SW 6406205
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 12:36

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4318 SDG#: DE243-18

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-041-SA7-SB-4.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11262SLD026	09/21/2011 21:56	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11262SLE026	09/28/2011 00:08	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11262SLE026	09/20/2011 06:50	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11262SLD026	09/20/2011 06:30	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11264A34A	09/21/2011 23:35	Marie D John	25.56
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201125825563	09/15/2011 14:15	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201125825563	09/15/2011 14:16	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112630022A	09/22/2011 22:45	Jamie L Brillhart	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112630022A	09/21/2011 10:30	Olivia Arosemena	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112580039A	09/17/2011 03:39	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620010A	09/20/2011 18:27	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112630011A	09/21/2011 02:35	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112680001A	09/26/2011 21:04	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	112680001A	09/26/2011 10:55	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112630011A	09/20/2011 15:00	Wanda F Oswald	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112580039A	09/16/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620010A	09/19/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112595708002	09/24/2011 15:25	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112595708002	09/24/2011 15:25	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112595708002	09/24/2011 15:25	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112595708002	09/24/2011 15:25	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112595708002	09/24/2011 15:25	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112595708002	09/26/2011 22:08	John P Hook	1
06958	Manganese	SW-846 6010B	1	112595708002	09/24/2011 15:25	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112595708002	09/24/2011 15:25	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112595708002	09/24/2011 15:25	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112595708002	09/24/2011 15:25	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112595708002	09/24/2011 15:25	Eric L Eby	1

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Sample Description: **SL-041-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA7-SB-4.0-5.0

LLI Sample # SW 6406205
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 12:36

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4318 SDG#: DE243-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112595708002	09/24/2011 15:25	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112595708002	09/24/2011 15:25	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112595708002	09/24/2011 15:25	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112591026001A	09/19/2011 10:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112591026001A	09/19/2011 10:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112591026001D	09/19/2011 10:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112591026001A	09/19/2011 10:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112591026001A	09/19/2011 10:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112591026001A	09/19/2011 10:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112591026001A	09/19/2011 10:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112591026001A	09/19/2011 10:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112591026001A	09/19/2011 10:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112591026001C	09/19/2011 10:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112591026001A	09/19/2011 10:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112591026001B	09/19/2011 10:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112591026001A	09/19/2011 10:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112591026001A	09/19/2011 10:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112591026001A	09/19/2011 10:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112591026001A	09/19/2011 10:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112595711003	09/19/2011 11:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112595708002	09/18/2011 20:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112591026001	09/18/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112595711003	09/18/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11263263201B	09/22/2011 01:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11259621203A	09/17/2011 01:58	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11269243202A	09/27/2011 18:32	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11263263201B	09/20/2011 06:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11259621203B	09/16/2011 07:23	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11265039403B	09/22/2011 11:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11269243202A	09/26/2011 10:05	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162401A	09/20/2011 19:37	Scott W Freisher	1

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Lancaster Laboratories

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

Analysis Report

Sample Description: SL-071-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA7-SB-4.0-5.0

LLI Sample # SW 6406206
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 14:41

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4319 SDG#: DE243-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1

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

Sample Description: **SL-071-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA7-SB-4.0-5.0

LLI Sample # SW 6406206
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 14:41

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4319 SDG#: DE243-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.3	U	6.3	19		1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.8		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.8		1
10138	Pyrene	129-00-0	0.70	U	0.70	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.58
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1

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

Sample Description: **SL-071-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA7-SB-4.0-5.0

LLI Sample # SW 6406206
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 14:41

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4319 SDG#: DE243-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	2.2		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,400		6.18	20.4		1
07914	Boron	7440-42-8	3.31	J	0.368	5.11		1
01650	Calcium	7440-70-2	2,130		2.55	20.4		1
01654	Iron	7439-89-6	18,300		2.67	20.4		1
01656	Lithium	7439-93-2	26.7		0.63	2.0		1
01657	Magnesium	7439-95-4	4,440		0.450	10.2		1
06958	Manganese	7439-96-5	145		0.0368	0.511		1
10145	Phosphorus	7723-14-0	238		0.358	10.2		1
01662	Potassium	7440-09-7	1,490		11.5	51.1		1
01667	Sodium	7440-23-5	130		6.08	102		1
07968	Strontium	7440-24-6	19.1		0.0255	0.511		1
06969	Tin	7440-31-5	3.11	J	0.327	10.2		1
06970	Titanium	7440-32-6	1,150		0.0725	1.02		1
10146	Zirconium	7440-67-7	2.76	J	0.470	5.11		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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

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Analysis Report

Sample Description: SL-071-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA7-SB-4.0-5.0

LLI Sample # SW 6406206
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 14:41

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4319 SDG#: DE243-19

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony		7440-36-0	0.0779 U	0.0779	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic		7440-38-2	20.8	0.0842	0.421		2
06126	Barium		7440-39-3	85.0	0.112	0.421		2
06127	Beryllium		7440-41-7	0.920	0.0168	0.105		2
06128	Cadmium		7440-43-9	0.0463 U	0.0463	0.105		2
06131	Chromium		7440-47-3	21.5	0.126	0.421		2
06132	Cobalt		7440-48-4	5.00	0.0210	0.105		2
06133	Copper		7440-50-8	5.94	0.0842	0.421		2
06135	Lead		7439-92-1	7.06	0.0107	0.210		2
06138	Molybdenum		7439-98-7	0.557	0.0526	0.105		2
06139	Nickel		7440-02-0	10.7	0.105	0.421		2
06141	Selenium		7782-49-2	0.149 J	0.0610	0.421		2
06142	Silver		7440-22-4	0.0443 J	0.0149	0.105		2
06145	Thallium		7440-28-0	0.265	0.0316	0.105		2
06148	Vanadium		7440-62-2	47.6	0.0231	0.105		2
06149	Zinc		7440-66-6	50.1	0.589	3.16		2
		SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0074 U	0.0074	0.106		1
Wet Chemistry		**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	2.4	0.84	1.1		1
		EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	9.6 U	9.6	31.9		1
		SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.99 J	0.21	1.1		1
		SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C		n.a.	6.82	0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	5.9	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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

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Analysis Report

Sample Description: SL-071-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA7-SB-4.0-5.0

LLI Sample # SW 6406206
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 14:41

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4319 SDG#: DE243-19

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-071-SA7-SB-4.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11262SLD026	09/21/2011 22:20	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11262SLE026	09/28/2011 00:41	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11262SLE026	09/20/2011 06:50	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11262SLD026	09/20/2011 06:30	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11264A34A	09/22/2011 00:12	Marie D John	23.58
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201125825563	09/15/2011 14:17	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201125825563	09/15/2011 14:18	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112630022A	09/23/2011 00:19	Jamie L Brillhart	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112630022A	09/21/2011 10:30	Olivia Arosemena	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112580039A	09/17/2011 03:53	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620010A	09/20/2011 18:40	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112630011A	09/21/2011 02:57	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112640002A	09/22/2011 23:37	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112640002A	09/21/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112630011A	09/20/2011 15:00	Wanda F Oswald	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112580039A	09/16/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620010A	09/19/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112595708002	09/24/2011 15:29	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112595708002	09/24/2011 15:29	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112595708002	09/24/2011 15:29	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112595708002	09/24/2011 15:29	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112595708002	09/24/2011 15:29	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112595708002	09/26/2011 22:12	John P Hook	1
06958	Manganese	SW-846 6010B	1	112595708002	09/24/2011 15:29	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112595708002	09/24/2011 15:29	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112595708002	09/24/2011 15:29	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112595708002	09/24/2011 15:29	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112595708002	09/24/2011 15:29	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112595708002	09/24/2011 15:29	Eric L Eby	1

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Analysis Report

Sample Description: **SL-071-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA7-SB-4.0-5.0

LLI Sample # SW 6406206
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 14:41

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4319 SDG#: DE243-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112595708002	09/24/2011 15:29	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112595708002	09/24/2011 15:29	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112591026001A	09/19/2011 10:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112591026001A	09/19/2011 10:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112591026001D	09/19/2011 10:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112591026001A	09/19/2011 10:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112591026001A	09/19/2011 10:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112591026001A	09/19/2011 10:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112591026001A	09/19/2011 10:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112591026001A	09/19/2011 10:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112591026001A	09/19/2011 10:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112591026001C	09/19/2011 10:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112591026001A	09/19/2011 10:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112591026001B	09/19/2011 10:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112591026001A	09/19/2011 10:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112591026001A	09/19/2011 10:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112591026001A	09/19/2011 10:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112591026001A	09/19/2011 10:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112595711003	09/19/2011 11:10	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112595708002	09/18/2011 20:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112591026001	09/18/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112595711003	09/18/2011 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11263263201B	09/22/2011 01:41	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11259621203A	09/17/2011 02:21	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11269243202A	09/27/2011 18:39	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11263263201B	09/20/2011 06:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11259621203B	09/16/2011 07:23	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11265039403B	09/22/2011 11:25	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11269243202A	09/26/2011 10:05	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162401B	09/20/2011 19:37	Scott W Freisher	1

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

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Analysis Report

Sample Description: **TB-091411 Water**
SSFL Area IV Collocated Soil Sampling
TB-091411

LLI Sample # WW 6406207
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 08:00

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4320 SDG#: DE243-20TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11269A53A	09/27/2011 18:44	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11269A53A	09/27/2011 18:44	Laura M Krieger	1

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

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Analysis Report

Sample Description: **EB-SA7-SS-091411 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SS-091411

LLI Sample # WW 6406208
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 14:00

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4321 SDG#: DE243-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	2.99		0.503	1.01		1
GC/MS Semivolatiles SW-846 8270C			**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	20	U	20	61		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	30		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	30		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1

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Sample Description: **EB-SA7-SS-091411 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SS-091411

LLI Sample # WW 6406208
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 14:00

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4321 SDG#: DE243-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	Tetralin	119-64-2	5	U	5	5		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.051		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.051		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.051		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.051		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.051		1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.051		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.051		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.051		1
10137	Butylbenzylphthalate	85-68-7	0.051	U	0.051	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.94	J	0.051	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.051		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.051		1
10137	Diethylphthalate	84-66-2	0.31	J	0.051	1.0		1
10137	Dimethylphthalate	131-11-3	0.051	U	0.051	1.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.11	J	0.051	1.0		1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.051		1
10137	Fluorene	86-73-7	0.010	U	0.010	0.051		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.051		1
10137	1-Methylnaphthalene	90-12-0	0.010	U	0.010	0.051		1
10137	2-Methylnaphthalene	91-57-6	0.010	U	0.010	0.051		1
10137	Naphthalene	91-20-3	0.031	U	0.031	0.051		1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.051		1
10137	Di-n-octylphthalate	117-84-0	0.051	U	0.051	1.0		1
10137	Phenanthrene	85-01-8	0.031	U	0.031	0.051		1
10137	Pyrene	129-00-0	0.010	U	0.010	0.051		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of .064 ug/l. The blank value was not subtracted from the analytical result.							
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.80		0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1

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Sample Description: **EB-SA7-SS-091411 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SS-091411

LLI Sample # WW 6406208
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 14:00

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4321 SDG#: DE243-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	2.5		0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10407	2,4-D	94-75-7	0.18	U	0.18	0.55		1
10407	Dalapon	75-99-0	0.28	U	0.28	1.4		1
10407	2,4-DB	94-82-6	0.33	U	0.33	1.1		1
10407	Dicamba	1918-00-9	0.088	U	0.088	0.33		1
10407	Dinoseb	88-85-7	0.11	U	0.11	0.55		1
10407	2,4-DP (Dichlorprop)	120-36-5	0.18	U	0.18	0.55		1
10407	MCPA	94-74-6	330	U	330	1,100		1
10407	MCPP	93-65-2	55	U	55	220		1
10407	2,4,5-T	93-76-5	0.017	U	0.017	0.055		1
10407	2,4,5-TP	93-72-1	0.011	U	0.011	0.055		1
HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	20b Formaldehyde 8315A	50-00-0	10	U	10	50		1
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	

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Sample Description: **EB-SA7-SS-091411 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SS-091411

LLI Sample # WW 6406208
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 14:00

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4321 SDG#: DE243-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00177	Aldrin	309-00-2	0.0020	U	0.0020	0.010		1
00177	Alpha BHC	319-84-6	0.0030	U	0.0030	0.010		1
00177	Beta BHC	319-85-7	0.0029	U	0.0029	0.010		1
00177	Gamma BHC - Lindane	58-89-9	0.0020	U	0.0020	0.010		1
00177	Chlordane	57-74-9	0.12	U	0.12	0.50		1
00177	p,p-DDD	72-54-8	0.0050	U	0.0050	0.020		1
00177	p,p-DDE	72-55-9	0.0050	U	0.0050	0.020		1
00177	p,p-DDT	50-29-3	0.0050	U	0.0050	0.020		1
00177	Delta BHC	319-86-8	0.0029	U	0.0029	0.010		1
00177	Dieldrin	60-57-1	0.0053	U	0.0053	0.020		1
00177	Endosulfan I	959-98-8	0.0043	U	0.0043	0.010		1
00177	Endosulfan II	33213-65-9	0.015	U	0.015	0.020		1
00177	Endosulfan Sulfate	1031-07-8	0.0058	U	0.0058	0.020		1
00177	Endrin	72-20-8	0.0081	U	0.0081	0.020		1
00177	Endrin Aldehyde	7421-93-4	0.020	U	0.020	0.10		1
00177	Endrin Ketone	53494-70-5	0.0050	U	0.0050	0.020		1
00177	Heptachlor	76-44-8	0.0026	U	0.0026	0.010		1
00177	Heptachlor Epoxide	1024-57-3	0.0023	U	0.0023	0.010		1
00177	Methoxychlor	72-43-5	0.030	U	0.030	0.10		1
00177	Mirex	2385-85-5	0.085	U	0.085	0.25		1
00177	Toxaphene	8001-35-2	1.0	U	1.0	3.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.099	U	0.099	0.49		1
10227	Aroclor 5442	12642-23-8	0.099	U	0.099	0.49		1
10227	Aroclor 5460	11126-42-4	0.099	U	0.099	0.49		1
10227	PCB-1016	12674-11-2	0.099	U	0.099	0.49		1
10227	PCB-1221	11104-28-2	0.099	U	0.099	0.49		1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.49		1
10227	PCB-1242	53469-21-9	0.099	U	0.099	0.49		1
10227	PCB-1248	12672-29-6	0.099	U	0.099	0.49		1
10227	PCB-1254	11097-69-1	0.099	U	0.099	0.49		1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.49		1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.49		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.49		1
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	20	U	20	200		1
08278	Ethylene glycol	107-21-1	20	U	20	200		1
08278	Propylene glycol	57-55-6	20	U	20	200		1

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Sample Description: **EB-SA7-SS-091411 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SS-091411

LLI Sample # WW 6406208
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 14:00

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4321 SDG#: DE243-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.085	U	0.085	0.27		1
10319	o-Terphenyl	84-15-1	0.085	U	0.085	0.27		1
10319	p-Terphenyl	92-94-4	0.085	U	0.085	0.27		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.10	U	0.10	0.62		1
10365	EFH (C15-C20)	n.a.	0.10	U	0.10	0.62		1
10365	EFH (C21-C30)	n.a.	0.10	U	0.10	0.62		1
10365	EFH (C30 - C40)	n.a.	0.10	U	0.10	0.62		1
10365	EFH (C8-C11)	n.a.	0.10	U	0.10	0.62		1
	The LCS recovery is below the QC limits for the C30-C40 range. Since there was no sample remaining for a reextraction, the data is reported.							
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0801	U	0.0801	0.200		1
08014	Boron	7440-42-8	0.0114	J	0.0022	0.0500		1
01750	Calcium	7440-70-2	0.0705	U	0.0705	0.200		1
01754	Iron	7439-89-6	0.0141	U	0.0141	0.200		1
01756	Lithium	7439-93-2	0.0076	U	0.0076	0.0200		1
01757	Magnesium	7439-95-4	0.0078	J	0.0067	0.100		1
07058	Manganese	7439-96-5	0.00044	U	0.00044	0.0050		1
10143	Phosphorus	7723-14-0	0.0047	U	0.0047	0.100		1
01762	Potassium	7440-09-7	0.0874	U	0.0874	0.500		1
01767	Sodium	7440-23-5	0.0647	U	0.0647	1.00		1
08068	Strontium	7440-24-6	0.00023	J	0.00022	0.0050		1
07069	Tin	7440-31-5	0.0043	U	0.0043	0.0200		1
07070	Titanium	7440-32-6	0.00046	U	0.00046	0.0100		1
10144	Zirconium	7440-67-7	0.0046	J	0.0042	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00042	U	0.00042	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00069	U	0.00069	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000080	U	0.000080	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00027	U	0.00027	0.0020		1
06042	Silver	7440-22-4	0.000098	U	0.000098	0.00050		1
06045	Thallium	7440-28-0	0.00015	U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00018	U	0.00018	0.00050		1
06049	Zinc	7440-66-6	0.0040	U	0.0040	0.0150		1

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Sample Description: **EB-SA7-SS-091411 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SS-091411

LLI Sample # WW 6406208
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 14:00

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4321 SDG#: DE243-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7470A**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000026 U	0.000026	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050 U	0.050	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9012B		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
08255	16b Cyanide by 9012B	57-12-5	0.0050 U	0.0050	0.010		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	17b pH by 9040B	n.a.	5.6	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11264WAF026	09/29/2011	16:14	Matthew S Woods	1
04678	5b SVOCs with Tetralin 8270C	SW-846 8270C	1	11264WAA026	09/27/2011	01:09	Holly Berry	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11260WAC026	09/23/2011	09:40	Mark A Clark	1
00813	BNA Water Extraction	SW-846 3510C	1	11264WAA026	09/21/2011	22:00	Elaine F Stoltzfus	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11260WAC026	09/18/2011	20:00	Nicholas W Shroyer	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11264WAF026	09/21/2011	16:20	Wanda F Oswald	1
10131	15b Energetics by 8330A	SW-846 8330A	1	112620022A	09/21/2011	02:39	James H Place	1
04144	20b Formaldehyde 8315A	SW-846 8315A	1	112590019A	09/19/2011	18:22	James H Place	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	112630020A	09/23/2011	04:18	Anita M Dale	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	112630018A	09/21/2011	18:30	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	112630017A	09/22/2011	13:21	Jamie L Brillhart	1
11117	PCB Waters Extraction	SW-846 3510C	1	112630017A	09/21/2011	02:30	Sherry L Morrow	1

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

Sample Description: **EB-SA7-SS-091411 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SS-091411

LLI Sample # WW 6406208
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 14:00

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4321 SDG#: DE243-21EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	112630018A	09/21/2011 02:30	Sherry L Morrow	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	112630020A	09/21/2011 11:00	Olivia I Santiago	1
01013	Formaldehyde Extraction	SW-846 8315A	1	112590019A	09/17/2011 06:15	Joseph S Feister	1
11122	Energetics Extraction	SW-846 8330	1	112620022A	09/20/2011 10:45	Kelli M Barto	1
06624	18b Alcohols by 8015B	SW-846 8015B	1	112590024A	09/16/2011 21:02	Elizabeth J Marin	1
08278	19b Glycols by 8015B	SW-846 8015B modified	1	112630005A	09/21/2011 15:15	Tyler O Griffin	1
10319	22b Terphenyls by 8015B	SW-846 8015B	1	112620006A	09/21/2011 14:21	Heather E Williams	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112600007A	09/20/2011 23:02	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	112600007A	09/19/2011 15:30	Kathryn I DeHaven	1
10304	Terphenyls water prep	SW-846 3510C	1	112620006A	09/19/2011 17:05	JoElla L Rice	1
01743	Aluminum	SW-846 6010B	1	112611848001	09/23/2011 20:57	John P Hook	1
08014	Boron	SW-846 6010B	1	112611848001	09/23/2011 20:57	John P Hook	1
01750	Calcium	SW-846 6010B	1	112611848001	09/23/2011 20:57	John P Hook	1
01754	Iron	SW-846 6010B	1	112611848001	09/23/2011 20:57	John P Hook	1
01756	Lithium	SW-846 6010B	1	112611848001	09/23/2011 20:57	John P Hook	1
01757	Magnesium	SW-846 6010B	1	112611848001	09/23/2011 20:57	John P Hook	1
07058	Manganese	SW-846 6010B	1	112611848001	09/23/2011 20:57	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	112611848001	09/25/2011 08:13	Tara L Snyder	1
01762	Potassium	SW-846 6010B	1	112611848001	09/23/2011 20:57	John P Hook	1
01767	Sodium	SW-846 6010B	1	112611848001	09/23/2011 20:57	John P Hook	1
08068	Strontium	SW-846 6010B	1	112611848001	09/23/2011 20:57	John P Hook	1
07069	Tin	SW-846 6010B	1	112611848001	09/23/2011 20:57	John P Hook	1
07070	Titanium	SW-846 6010B	1	112611848001	09/23/2011 20:57	John P Hook	1
10144	Zirconium	SW-846 6010B	1	112611848001	09/23/2011 20:57	John P Hook	1
06024	Antimony	SW-846 6020	1	112616050001A	09/19/2011 08:15	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	112616050001A	09/19/2011 08:15	Choon Y Tian	1
06026	Barium	SW-846 6020	1	112616050001D	09/19/2011 08:15	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	112616050001A	09/19/2011 08:15	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	112616050001A	09/19/2011 08:15	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	112616050001A	09/19/2011 08:15	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	112616050001A	09/19/2011 08:15	Choon Y Tian	1
06033	Copper	SW-846 6020	1	112616050001A	09/19/2011 08:15	Choon Y Tian	1
06035	Lead	SW-846 6020	1	112616050001A	09/19/2011 08:15	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	112616050001C	09/19/2011 08:15	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	112616050001A	09/19/2011 08:15	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	112616050001B	09/19/2011 08:15	Choon Y Tian	1
06042	Silver	SW-846 6020	1	112616050001A	09/19/2011 08:15	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	112616050001A	09/19/2011 08:15	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	112616050001A	09/19/2011 08:15	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	112616050001A	09/19/2011 08:15	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	112595713004	09/19/2011 08:31	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	112611848001	09/18/2011 13:07	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	112616050001	09/18/2011 13:07	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	112595713004	09/16/2011 14:40	Nelli S Markaryan	1

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Lancaster Laboratories

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

Analysis Report

Sample Description: **EB-SA7-SS-091411 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SS-091411

LLI Sample # WW 6406208
LLI Group # 1266447
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 14:00

Submitted: 09/15/2011 09:20
Reported: 10/05/2011 14:49

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

E4321 SDG#: DE243-21EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11258196601B	09/15/2011 19:31	Ashley M Adams	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11258196601B	09/15/2011 19:31	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11258281101A	09/15/2011 16:00	Elyse P Brunstetter	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11258281402A	09/15/2011 12:12	Elyse P Brunstetter	1
08255	16b Cyanide by 9012B	SW-846 9012B	1	11264117101A	09/21/2011 19:21	Joseph E McKenzie	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11264117101B	09/21/2011 15:20	Carolyn M Mastropietro	1
00200	17b pH by 9040B	SW-846 9040B	1	11259020003A	09/16/2011 15:00	Michele L Graham	1

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266447
Reported: 10/05/11 at 02:49 PM

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

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11260WAC026	Sample number(s): 6406208									
Acenaphthene	0.010	U	0.010	0.050	ug/l	97	94	74-109	4	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	103	99	70-110	4	30
Anthracene	0.010	U	0.010	0.050	ug/l	110	108	66-111	2	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	102	103	72-114	1	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	95	94	60-127	1	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	107	107	58-151	0	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	117	115	57-131	1	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	95	92	59-130	3	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	74	70	40-138	6	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	107	103	56-148	4	30
Chrysene	0.010	U	0.010	0.050	ug/l	98	98	76-116	0	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	120	118	55-134	2	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	83	80	37-148	3	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	66	58	40-119	13	30
Bis(2-Ethylhexyl)phthalate	0.064	J	0.050	1.0	ug/l	108	108	57-154	0	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	108	106	75-116	2	30
Fluorene	0.010	U	0.010	0.050	ug/l	114	108	75-114	6	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	116	115	53-158	1	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	96	91	71-117	5	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	97	92	75-115	5	30
Naphthalene	0.030	U	0.030	0.050	ug/l	101	97	72-109	4	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	63	61	36-89	2	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	105	102	57-145	3	30
Phenanthrene	0.030	U	0.030	0.050	ug/l	107	102	76-111	4	30
Pyrene	0.010	U	0.010	0.050	ug/l	97	97	69-118	0	30
Batch number: 11262SLD026	Sample number(s): 6406188-6406206									
Aniline	170	U	170.	500	ug/kg	62		20-115		
Benzidine	1,200	U	1,200.	3,300	ug/kg	53		15-121		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	102		60-125		
Benzoic acid	170	U	170.	500	ug/kg	78		62-113		
Benzyl alcohol	170	U	170.	500	ug/kg	85		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	102		73-114		
Butylbenzylphthalate	17	U	17.	170	ug/kg	94		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	98		79-112		
Carbazole	17	U	17.	170	ug/kg	97		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	95		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	52		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	90		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	85		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	71		62-115		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266447
Reported: 10/05/11 at 02:49 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Chloronaphthalene	17	U	17.	170	ug/kg	79		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	95		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	98		74-115		
Dibenzofuran	17	U	17.	170	ug/kg	96		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	84		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	80		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	81		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	54		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	99		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	97		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	94		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	98		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	99		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	48		46-120		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	27		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	101		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	103		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	89		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	94		75-117		
Fluoranthene	17	U	17.	170	ug/kg	108		78-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	102		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	95		65-117		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	78		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	79		61-109		
Isophorone	17	U	17.	170	ug/kg	89		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	91		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	86		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	103		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	97		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	70		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	89		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	98		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	85		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	79		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	99		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	101		62-137		
Pentachlorophenol	170	U	170.	500	ug/kg	85		51-117		
Phenol	17	U	17.	170	ug/kg	84		58-112		
Tetralin	170	U	170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	93		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	102		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	106		78-111		
Batch number: 11262SLE026	Sample number(s): 6406188-6406206									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	89		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	92		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	103		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	98		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	90		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	100		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	112		66-150		

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266447
Reported: 10/05/11 at 02:49 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	90		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	103		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	114		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	94		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	115		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	94		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	99		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	110		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	104		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	102		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	111		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	88		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	89		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	90		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	92		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	108		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	98		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	92		72-119		
Batch number: 11264WAA026	Sample number(s): 6406208									
Aniline	1	U	1.	5	ug/l	76	72	38-116	4	30
Benzidine	20	U	20.	60	ug/l	66	61	34-117	8	30
Benzoic acid	6	U	6.	15	ug/l	46	47	10-69	1	30
Benzyl alcohol	5	U	5.	15	ug/l	72	74	66-97	2	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	98	105	75-115	7	30
Carbazole	1	U	1.	5	ug/l	96	100	75-120	4	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	88	93	70-123	6	30
4-Chloroaniline	1	U	1.	5	ug/l	78	70	24-128	11	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	93	99	74-124	6	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	92	93	77-108	0	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	75	76	62-127	2	30
2-Chloronaphthalene	2	U	2.	5	ug/l	75	77	54-132	3	30
2-Chlorophenol	1	U	1.	5	ug/l	90	91	71-114	0	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	92	98	77-114	6	30
Dibenzofuran	1	U	1.	5	ug/l	91	96	75-117	5	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	90	87	55-118	3	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	89	86	61-111	3	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	90	86	53-119	4	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	70	64	37-117	8	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	98	105	77-117	7	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	91	96	72-110	5	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	95	100	70-130	5	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	101	107	65-126	6	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	95	99	52-131	4	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	94	98	76-119	4	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	96	100	76-118	4	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	94	100	68-127	6	30
Hexachlorobenzene	1	U	1.	5	ug/l	88	95	75-119	7	30
Hexachlorobutadiene	1	U	1.	5	ug/l	102	105	57-124	2	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	72	74	36-118	3	30
Hexachloroethane	1	U	1.	5	ug/l	90	85	52-113	5	30
Isophorone	1	U	1.	5	ug/l	93	101	74-117	8	30
2-Methylphenol	1	U	1.	5	ug/l	79	81	58-110	2	30
4-Methylphenol	2	U	2.	5	ug/l	65	67	49-108	3	30
2-Nitroaniline	1	U	1.	5	ug/l	95	99	75-120	4	30
3-Nitroaniline	1	U	1.	5	ug/l	89	91	74-113	3	30
4-Nitroaniline	1	U	1.	5	ug/l	70	71	59-100	2	30
Nitrobenzene	1	U	1.	5	ug/l	96	101	75-109	5	30

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266447
Reported: 10/05/11 at 02:49 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Nitrophenol	1	U	1.	5	ug/l	98	106	76-118	8	30
4-Nitrophenol	10	U	10.	30	ug/l	41	44	16-78	6	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	85	88	69-110	3	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	95	102	67-136	7	30
Pentachlorophenol	3	U	3.	15	ug/l	85	90	53-110	6	30
Phenol	1	U	1.	5	ug/l	39	39	21-67	1	30
Tetralin	5	U	5.	5	ug/l					
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	98	102	71-112	4	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	99	102	79-107	3	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	104	107	76-120	3	30
Batch number: 11264WAF026	Sample number(s): 6406208									
N-Nitrosodimethylamine	0.500	U	0.500	1.00	ng/l	119	109	70-130	8	30
Batch number: 11265SLB026	Sample number(s): 6406191,6406203-6406204									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	108		70-130		
Batch number: 11264A34A	Sample number(s): 6406203-6406206									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	75		67-119		
Batch number: 11269A53A	Sample number(s): 6406207									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	118	118	75-135	0	30
Batch number: 112620022A	Sample number(s): 6406208									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	100	100	80-120	0	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	99	99	80-120	0	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	93	90	50-122	4	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	93	90	50-122	4	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	100	100	72-117	0	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	94	94	80-120	0	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
HMX	0.65	U	0.65	2.0	ug/l	90	88	65-125	2	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	93	93	75-121	0	30
Nitroglycerin	5.2	U	5.2	15	ug/l	96	96	80-120	0	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	95	95	74-120	0	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	100	100	69-107	0	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	98	100	80-120	2	30
PETN	6.0	U	6.0	18	ug/l	100	100	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	92	89	70-125	3	30
Tetryl	0.40	U	0.40	0.60	ug/l	97	88	72-141	10	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	100	95	53-129	5	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	76-109	0	30
Batch number: 112640025A	Sample number(s): 6406191,6406203-6406204									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	106		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	103		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	66	81	54-134	20	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	66	81	54-134	20	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	107		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	98		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	105		80-120		
HMX	100 U		100.	300	ug/kg	92		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	98		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	85		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	99		78-128		
3-Nitrotoluene	100		100.	120	ug/kg	105		73-127		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266447
Reported: 10/05/11 at 02:49 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Nitrotoluene	80	U	80.	120	ug/kg	98		80-120		
PETN	800	U	800.	2,400	ug/kg	100		80-120		
RDX	50	U	50.	120	ug/kg	104		75-131		
Tetryl	61	U	61.	120	ug/kg	94		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	103		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	105		80-120		
Batch number: 112590019A	Sample number(s): 6406208									
20b Formaldehyde 8315A	10	U	10.	50	ug/l	98	94	69-130	4	30
Batch number: 112620004A	Sample number(s): 6406191,6406203-6406204									
20a Formaldehyde 8315A	600	U	600.	1,500	ug/kg	108		80-126		
Batch number: 112630003A	Sample number(s): 6406189-6406192,6406194-6406202									
2,4-D	1.2	U	1.2	3.6	ug/kg	94		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	55		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	82		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	93		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	5*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	113		62-170		
MCPA	76	U	76.	250	ug/kg	98		60-130		
MCPP (Mecoprop)	100	J	75.	250	ug/kg	70		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	90		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	82		68-114		
Batch number: 112630020A	Sample number(s): 6406208									
2,4-D	0.16	U	0.16	0.50	ug/l	100	104	73-157	4	30
Dalapon	0.25	U	0.25	1.3	ug/l	92	86	40-100	7	30
2,4-DB	0.30	U	0.30	1.0	ug/l	80	92	65-130	14	30
Dicamba	0.080	U	0.080	0.30	ug/l	88	92	68-135	4	30
Dinoseb	0.10	U	0.10	0.50	ug/l	58	60	32-91	4	30
2,4-DP (Dichlorprop)	0.16	U	0.16	0.50	ug/l	116	120	76-170	3	30
MCPA	300	U	300.	1,000	ug/l	84	86	65-128	2	30
MCPP	50	U	50.	200	ug/l	88	88	67-137	0	30
2,4,5-T	0.015	U	0.015	0.050	ug/l	88	92	63-147	4	30
2,4,5-TP	0.010	U	0.010	0.050	ug/l	100	100	63-134	0	30
Batch number: 112670005A	Sample number(s): 6406188,6406193									
2,4-D	1.2	U	1.2	3.6	ug/kg	88		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	69		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	76		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	95		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	4*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	107		62-170		
MCPA	76	U	76.	250	ug/kg	96		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	64		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	92		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	72		68-114		
Batch number: 112600024A	Sample number(s): 6406188,6406198									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	105		85-115		
Batch number: 112630017A	Sample number(s): 6406208									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266447
Reported: 10/05/11 at 02:49 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	82	82	35-84	0	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	102	102	51-128	0	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	110	110	56-135	0	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 112630018A	Sample number(s): 6406208									
Aldrin	0.0020	U	0.0020	0.010	ug/l	111	111	54-159	0	30
Alpha BHC	0.0030	U	0.0030	0.010	ug/l	110	120	59-146	9	30
Beta BHC	0.0029	U	0.0029	0.010	ug/l	124	124	73-147	0	30
Gamma BHC - Lindane	0.0020	U	0.0020	0.010	ug/l	110	120	68-128	9	30
Chlordane	0.12	U	0.12	0.50	ug/l					
p,p-DDD	0.0050	U	0.0050	0.020	ug/l	115	120	71-139	4	30
p,p-DDE	0.0050	U	0.0050	0.020	ug/l	116	116	66-130	0	30
p,p-DDT	0.0050	U	0.0050	0.020	ug/l	105	105	53-126	0	30
Delta BHC	0.0029	U	0.0029	0.010	ug/l	124	124	76-148	0	30
Dieldrin	0.0053	U	0.0053	0.020	ug/l	115	115	76-132	0	30
Endosulfan I	0.0043	U	0.0043	0.010	ug/l	99	100	68-128	1	30
Endosulfan II	0.015	U	0.015	0.020	ug/l	110	110	59-144	0	30
Endosulfan Sulfate	0.0058	U	0.0058	0.020	ug/l	115	110	71-142	4	30
Endrin	0.0081	U	0.0081	0.020	ug/l	80	100	52-132	22	30
Endrin Aldehyde	0.020	U	0.020	0.10	ug/l	115	110	68-139	4	20
Endrin Ketone	0.0050	U	0.0050	0.020	ug/l	120	105	69-146	13	30
Heptachlor	0.0026	U	0.0026	0.010	ug/l	110	110	57-126	0	30
Heptachlor Epoxide	0.0023	U	0.0023	0.010	ug/l	112	112	73-156	0	30
Methoxychlor	0.030	U	0.030	0.10	ug/l	99	100	52-133	1	30
Mirex	0.085	U	0.085	0.25	ug/l					
Toxaphene	1.0	U	1.0	3.0	ug/l					
Batch number: 112630022A	Sample number(s): 6406189-6406206									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	85	76	36-106	11	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	101		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	108		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112630031A	Sample number(s): 6406188-6406202									
Aldrin	0.066	U	0.066	0.17	ug/kg	61		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	56		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	84		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	62		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	94		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	88		59-141		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266447
Reported: 10/05/11 at 02:49 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
p,p-DDT	0.066	U	0.066	0.34	ug/kg	92		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	84		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	79		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	59		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	88		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	103		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	84		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	73		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	97		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	62		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	76		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	105		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 112670023A	Sample number(s): 6406188									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	118*	79	36-106	40*	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	112		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	121		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112580039A	Sample number(s): 6406188,6406191,6406195-6406199,6406203-6406206									
Ethanol	100	U	100.	500	ug/kg	86		71-129		
Isopropanol	100	U	100.	500	ug/kg	90		75-125		
Methanol	100	U	100.	500	ug/kg	84		68-129		
Batch number: 112590024A	Sample number(s): 6406208									
Ethanol	200	U	200.	1,000	ug/l	84		78-116		
Isopropanol	200	U	200.	1,000	ug/l	88		75-125		
Methanol	200	U	200.	1,000	ug/l	88		76-122		
Batch number: 112620009A	Sample number(s): 6406188									
Diethylene glycol	5.0	U	5.0	10	mg/kg	80		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	85		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	74		67-131		
Batch number: 112620010A	Sample number(s): 6406191,6406195-6406199,6406203-6406206									
Diethylene glycol	5.0	U	5.0	10	mg/kg	95		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	99		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	89		67-131		
Batch number: 112630005A	Sample number(s): 6406208									
Diethylene glycol	20	U	20.	200	mg/l	125	75	67-126	50*	20
Ethylene glycol	20	U	20.	200	mg/l	121	79	78-136	42*	20

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Quality Control Summary

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Reported: 10/05/11 at 02:49 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Propylene glycol	20	U	20.	200	mg/l	125	80	65-132	44*	20
Batch number: 112600007A	Sample number(s): 6406208									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	76	100	63-121	27	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	77	107	72-124	32*	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	77	108	64-123	33*	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	65*	93	73-124	36*	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	68	86	43-107	23	30
Batch number: 112620006A	Sample number(s): 6406208									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	90	88	61-108	2	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	90	88	75-125	2	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	90	88	63-110	2	20
Batch number: 112630011A	Sample number(s): 6406188,6406191,6406195-6406199,6406203-6406206									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	93		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	94		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		69-109		
Batch number: 112640002A	Sample number(s): 6406188,6406191,6406195-6406197,6406199,6406203-6406204,6406206									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	100		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	102		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	107		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	99		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	88		49-107		
Batch number: 112680001A	Sample number(s): 6406198,6406205									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	83		70-123		
EFH (C15-C20)	0.42	J	0.40	1.2	mg/kg	94		75-128		
EFH (C21-C30)	1.2	J	0.40	1.2	mg/kg	100		64-134		
EFH (C30 - C40)	1.5		0.40	1.2	mg/kg	89		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	62		49-107		
Batch number: 112591026001A	Sample number(s): 6406188-6406206									
Antimony	0.0740	U	0.0740	0.200	mg/kg	100		10-224		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	102		78-122		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	103		80-120		
Cadmium	0.0440	U	0.0440	0.100	mg/kg	101		81-119		
Chromium	0.120	U	0.120	0.400	mg/kg	115		77-123		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	101		80-119		
Copper	0.0800	U	0.0800	0.400	mg/kg	102		78-122		
Lead	0.0102	U	0.0102	0.200	mg/kg	104		77-123		
Nickel	0.100	U	0.100	0.400	mg/kg	111		80-120		
Silver	0.0142	U	0.0142	0.100	mg/kg	101		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	104		75-124		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	122		76-124		
Zinc	0.560	U	0.560	3.00	mg/kg	102		79-121		
Batch number: 112591026001B	Sample number(s): 6406188-6406206									
Selenium	0.0580	U	0.0580	0.400	mg/kg	108		77-123		
Batch number: 112591026001C	Sample number(s): 6406188-6406206									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	107		76-123		
Batch number: 112591026001D	Sample number(s): 6406188-6406206									
Barium	0.106	U	0.106	0.400	mg/kg	104		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266447
Reported: 10/05/11 at 02:49 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 112595708002	Sample number(s): 6406188-6406206								
Aluminum	9.04 J	6.05	20.0	mg/kg	142		42-158		
Boron	0.725 J	0.360	5.00	mg/kg	110		66-134		
Calcium	13.9 J	2.50	20.0	mg/kg	109		79-121		
Iron	3.80 J	2.61	20.0	mg/kg	118		51-149		
Lithium	0.62 U	0.62	2.0	mg/kg	105		80-120		
Magnesium	0.639 J	0.440	10.0	mg/kg	131		64-136		
Manganese	0.0360 U	0.0360	0.500	mg/kg	107		78-122		
Phosphorus	1.52 J	0.350	10.0	mg/kg	107		80-120		
Potassium	11.3 U	11.3	50.0	mg/kg	120		69-131		
Sodium	5.95 U	5.95	100	mg/kg	114		71-129		
Strontium	0.0820 J	0.0250	0.500	mg/kg	105		81-119		
Tin	1.78 J	0.320	10.0	mg/kg	97		74-126		
Titanium	0.0710 U	0.0710	1.00	mg/kg	92		80-120		
Zirconium	0.460 U	0.460	5.00	mg/kg	105		80-120		
Batch number: 112595711003	Sample number(s): 6406188-6406206								
Mercury	0.0069 U	0.0069	0.0984	mg/kg	96		72-128		
Batch number: 112595713004	Sample number(s): 6406208								
Mercury	0.000028 J	0.00002 6	0.00020	mg/l	99	104	80-120	5	20
Batch number: 112611848001	Sample number(s): 6406208								
Aluminum	0.0801 U	0.0801	0.200	mg/l	107	104	90-112	3	20
Boron	0.0172 J	0.0022	0.0500	mg/l	103	101	89-110	2	20
Calcium	0.0705 U	0.0705	0.200	mg/l	108	105	90-112	3	20
Iron	0.0141 U	0.0141	0.200	mg/l	107	109	90-112	1	20
Lithium	0.0076 U	0.0076	0.0200	mg/l	109	105	80-120	3	20
Magnesium	0.0198 J	0.0067	0.100	mg/l	107	104	89-110	3	20
Manganese	0.00044 U	0.00044	0.0050	mg/l	109	106	90-110	2	20
Phosphorus	0.0047 U	0.0047	0.100	mg/l	108	105	80-120	3	20
Potassium	0.0874 U	0.0874	0.500	mg/l	106	103	85-115	2	20
Sodium	0.0647 U	0.0647	1.00	mg/l	103	101	87-114	2	20
Strontium	0.00038 J	0.00022	0.0050	mg/l	109	107	90-110	2	20
Tin	0.0043 U	0.0043	0.0200	mg/l	105	102	90-110	2	20
Titanium	0.00046 U	0.00046	0.0100	mg/l	107	104	90-113	3	20
Zirconium	0.0048 J	0.0042	0.0500	mg/l	109	106	80-120	4	20
Batch number: 112616050001A	Sample number(s): 6406208								
Antimony	0.00042 U	0.00042	0.0010	mg/l	108	108	87-110	1	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	99	104	86-111	5	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	106	107	90-113	1	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	101	103	90-114	2	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	105	107	90-118	2	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	99	98	87-113	1	20
Copper	0.00038 U	0.00038	0.0020	mg/l	101	99	90-113	2	20
Lead	0.000080 U	0.00008 0	0.0010	mg/l	106	105	90-115	1	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	104	101	90-113	3	20
Silver	0.000098 U	0.00009 8	0.00050	mg/l	103	103	90-115	1	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	103	106	89-116	3	20
Vanadium	0.00018 U	0.00018	0.00050	mg/l	105	103	89-116	3	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	97	101	90-116	4	20
Batch number: 112616050001B	Sample number(s): 6406208								
Selenium	0.00027 U	0.00027	0.0020	mg/l	108	102	85-114	5	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266447
Reported: 10/05/11 at 02:49 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 112616050001C	Sample number(s): 6406208								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	105	102	89-115	3	20
Batch number: 112616050001D	Sample number(s): 6406208								
Barium	0.00069 U	0.00069	0.0020	mg/l	101	102	88-113	0	20
Batch number: 11258196601B	Sample number(s): 6406208								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	99	101	90-110	2	20
11b Anions by 300.0 - Nitrate	0.050 U	0.050	0.10	mg/l	101	103	90-110	2	20
Batch number: 11258281101A	Sample number(s): 6406208								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	87	85	85-115	2	20
Batch number: 11258281402A	Sample number(s): 6406208								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	100	98	90-110	2	20
Batch number: 11259621203A	Sample number(s): 6406188-6406197,6406200-6406206								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	95		85-115		
Batch number: 11259621203B	Sample number(s): 6406198-6406199								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	95		85-115		
Batch number: 11263102201A	Sample number(s): 6406188,6406191,6406203-6406204								
16a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	102		80-120		
Batch number: 11263263201A	Sample number(s): 6406188-6406197								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	96		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	98		90-110		
Batch number: 11263263201B	Sample number(s): 6406198-6406206								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	96		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	98		90-110		
Batch number: 11264117101A	Sample number(s): 6406208								
16b Cyanide by 9012B	0.0050 U	0.0050	0.010	mg/l	101	102	90-110	1	20
Batch number: 11269243202A	Sample number(s): 6406188-6406206								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	88		80-120		
Batch number: 11259020003A	Sample number(s): 6406208								
17b pH by 9040B					100		90-110		
Batch number: 11265039403A	Sample number(s): 6406188-6406196								
17a pH by 9045C					100		95-105		
Batch number: 11265039403B	Sample number(s): 6406197-6406206								
17a pH by 9045C					100		95-105		
Batch number: 11263162401A	Sample number(s): 6406188-6406190,6406192-6406202,6406205								
Moisture Content by 160.3					100		80-120		
Batch number: 11263162401B	Sample number(s): 6406206								
Moisture Content by 160.3					100		80-120		
Batch number: 11272162401A	Sample number(s): 6406191,6406203-6406204								
Moisture Content by 160.3					100		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266447
Reported: 10/05/11 at 02:49 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11262SLD026	Sample number(s): 6406188-6406206 UNSPK: 6406188								
Aniline	58	56	18-116	4	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(g,h,i)perylene	101	101	59-127	0	30				
Benzoic acid	30	36	10-173	16	30				
Benzyl alcohol	84	84	67-115	1	30				
4-Bromophenyl-phenylether	100	100	67-129	0	30				
Butylbenzylphthalate	88	92	73-134	5	30				
Di-n-butylphthalate	94	97	67-123	2	30				
Carbazole	92	93	64-120	1	30				
4-Chloro-3-methylphenol	96	95	62-122	1	30				
4-Chloroaniline	45	40	13-107	10	30				
bis(2-Chloroethoxy)methane	89	86	75-104	3	30				
bis(2-Chloroethyl)ether	82	82	60-116	0	30				
bis(2-Chloroisopropyl)ether	67	67	55-142	1	30				
2-Chloronaphthalene	71	71	50-141	0	30				
2-Chlorophenol	93	93	73-121	0	30				
4-Chlorophenyl-phenylether	97	91	80-109	7	30				
Dibenzofuran	92	88	71-112	4	30				
1,2-Dichlorobenzene	84	80	66-108	5	30				
1,3-Dichlorobenzene	81	78	63-109	3	30				
1,4-Dichlorobenzene	82	78	58-108	5	30				
3,3'-Dichlorobenzidine	58	63	28-109	10	30				
2,4-Dichlorophenol	98	98	66-123	0	30				
Diethylphthalate	92	89	66-118	3	30				
2,4-Dimethylphenol	93	92	68-118	1	30				
3,5-Dimethylphenol	97	95	71-127	2	30				
Dimethylphthalate	92	91	64-118	1	30				
4,6-Dinitro-2-methylphenol	81	79	11-126	3	30				
2,4-Dinitrophenol	53	47	20-143	12	30				
2,4-Dinitrotoluene	96	92	56-129	4	30				
2,6-Dinitrotoluene	100	98	69-123	2	30				
1,2-Diphenylhydrazine	85	84	71-129	1	30				
bis(2-Ethylhexyl)phthalate	89	91	63-122	3	30				
Fluoranthene	102	102	73-112	0	30				
Hexachlorobenzene	102	102	77-114	1	30				
Hexachlorobutadiene	95	91	62-120	4	30				
Hexachlorocyclopentadiene	69	72	10-153	4	30				
Hexachloroethane	79	75	57-109	5	30				
Isophorone	85	86	73-102	1	30				
2-Methylphenol	88	88	75-111	0	30				
4-Methylphenol	86	85	59-123	2	30				
2-Nitroaniline	98	96	67-125	3	30				
3-Nitroaniline	91	89	59-122	2	30				
4-Nitroaniline	68	71	41-109	4	30				
Nitrobenzene	86	85	57-125	1	30				
2-Nitrophenol	99	96	56-127	2	30				
4-Nitrophenol	79	80	37-129	2	30				
N-Nitroso-di-n-propylamine	77	77	60-116	0	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266447
Reported: 10/05/11 at 02:49 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
N-Nitrosodiphenylamine	94	94	71-122	0	30				
Di-n-octylphthalate	100	103	56-126	2	30				
Pentachlorophenol	86	81	28-127	6	30				
Phenol	82	82	58-126	0	30				
1,2,4-Trichlorobenzene	93	91	72-115	3	30				
2,4,5-Trichlorophenol	98	98	58-129	0	30				
2,4,6-Trichlorophenol	104	104	56-134	0	30				
Batch number: 11262SLE026	Sample number(s): 6406188-6406206 UNSPK: 6406189								
Acenaphthene	98	92	63-105	7	30				
Acenaphthylene	101	96	67-114	6	30				
Anthracene	109	115	73-115	4	30				
Benzo(a)anthracene	103	118	59-128	12	30				
Benzo(a)pyrene	92	103	58-142	10	30				
Benzo(b)fluoranthene	75	102	54-163	26	30				
Benzo(g,h,i)perylene	76	81	33-141	5	30				
Benzo(k)fluoranthene	95	102	57-153	6	30				
Butylbenzylphthalate	118	111	57-173	7	30				
Di-n-butylphthalate	125	128	65-148	1	30				
Chrysene	99	108	67-123	8	30				
Dibenz(a,h)anthracene	94	92	22-133	3	30				
Diethylphthalate	100	100	70-136	1	30				
Dimethylphthalate	108	105	74-118	4	30				
Bis(2-Ethylhexyl)phthalate	94	80	39-167	12	30				
Fluoranthene	114	143	51-149	20	30				
Fluorene	108	104	66-122	5	30				
Indeno(1,2,3-cd)pyrene	89	95	21-143	6	30				
1-Methylnaphthalene	96	86	72-123	11	30				
2-Methylnaphthalene	97	87	64-103	12	30				
Naphthalene	99	88	61-102	13	30				
N-Nitrosodimethylamine	353*	353*	48-113	1	30				
Di-n-octylphthalate	112	105	40-192	7	30				
Phenanthrene	102	113	62-122	9	30				
Pyrene	86	103	51-131	16	30				
Batch number: 11265SLB026	Sample number(s): 6406191,6406203-6406204 UNSPK: 6406203								
N-Nitrosodimethylamine	55*	44*	70-130	19	30				
Batch number: 11264A34A	Sample number(s): 6406203-6406206 UNSPK: P404514								
9a TPH by EPA 8015B Gas C5-C12	118	125*	39-118	6	30				
Batch number: 112640025A	Sample number(s): 6406191,6406203-6406204 UNSPK: P404514								
4-Amino-2,6-Dinitrotoluene	106	105	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	103	101	80-137	2	50				
1,3-Dinitrobenzene	106	105	38-166	1	50				
2,4-Dinitrotoluene	98	96	80-131	2	50				
2,6-Dinitrotoluene	102	103	80-127	1	50				
HMX	91	92	63-128	0	50				
Nitrobenzene	99	98	80-125	1	50				
Nitroglycerin	96	95	80-120	1	50				
2-Nitrotoluene	96	97	80-122	0	50				
3-Nitrotoluene	102	102	72-119	0	50				
4-Nitrotoluene	95	96	80-125	0	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266447
Reported: 10/05/11 at 02:49 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
PETN	104	102	80-121	1	50				
RDX	94	93	75-129	2	50				
Tetryl	80	82	55-174	3	50				
1,3,5-Trinitrobenzene	93	93	82-126	1	50				
2,4,6-Trinitrotoluene	103	103	82-130	0	50				
Batch number: 112620004A	Sample number(s): 6406191,6406203-6406204 UNSPK: P404354								
20a Formaldehyde 8315A	111	113	80-120	2	50				
Batch number: 112630003A	Sample number(s): 6406189-6406192,6406194-6406202 UNSPK: P406188								
2,4-D	34	20	17-180	50*	35				
Dalapon	34	78	10-125	80*	50				
2,4-DB	486*	517*	10-201	6	50				
Dicamba	24	16	10-190	10	50				
Dinoseb	6*	0*	10-46	200*	35				
2,4-DP (Dichlorprop)	88	98	33-178	11	50				
MCPA	18	21	10-213	14	50				
MCPP (Mecoprop)	-30*	-28*	10-184	3	50				
2,4,5-T	64	13	10-156	131*	35				
2,4,5-TP	63	65	24-141	4	35				
Batch number: 112670005A	Sample number(s): 6406188,6406193 UNSPK: P409752								
2,4-D	97	95	17-180	3	35				
Dalapon	70	76	10-125	9	50				
2,4-DB	52	67	10-201	13	50				
Dicamba	151	154	10-190	2	50				
Dinoseb	7*	7*	10-46	7	35				
2,4-DP (Dichlorprop)	100	105	33-178	5	50				
MCPA	51	43	10-213	17	50				
MCPP (Mecoprop)	23	22	10-184	3	50				
2,4,5-T	18	43	10-156	82*	35				
2,4,5-TP	55	58	24-141	4	35				
Batch number: 112600024A	Sample number(s): 6406188,6406198 UNSPK: P404355								
6a Perchlorate EPA 6850	106	104	80-120	1	20				
Batch number: 112630022A	Sample number(s): 6406189-6406206 UNSPK: 6406189								
PCB-1016	75	55	29-146	31	50				
PCB-1260	55	9*	39-149	57*	50				
Batch number: 112630031A	Sample number(s): 6406188-6406202 UNSPK: 6406188								
Aldrin	67	73	16-126	9	50				
Alpha BHC	62	62	10-129	0	50				
Beta BHC	34	41	14-147	17	50				
Gamma BHC - Lindane	65	65	10-140	0	50				
p,p-DDD	82	90	16-163	9	50				
p,p-DDE	78	88	18-161	6	50				
p,p-DDT	45	56	10-176	6	50				
Delta BHC	84	91	23-140	7	50				
Dieldrin	63	66	19-154	5	50				
Endosulfan I	65	68	16-137	4	50				
Endosulfan II	86	89	28-154	4	50				
Endosulfan Sulfate	92	98	21-160	6	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266447
Reported: 10/05/11 at 02:49 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Endrin	69	73	11-149	6	50				
Endrin Aldehyde	92	94	10-148	2	35				
Endrin Ketone	71	78	22-165	8	50				
Heptachlor	71	71	13-126	0	50				
Heptachlor Epoxide	85	85	13-157	0	50				
Methoxychlor	70	90	32-147	25	50				
Batch number: 112670023A	Sample number(s): 6406188 UNSPK: P412111								
PCB-1016	85	97	29-146	14	50				
PCB-1260	72	86	39-149	16	50				
Batch number: 112580039A	Sample number(s): 6406188,6406191,6406195-6406199,6406203-6406206 UNSPK: 6406188								
Ethanol	55	117	48-130	71*	20				
Isopropanol	37	121	12-149	107*	20				
Methanol	49	113	43-138	79*	20				
Batch number: 112590024A	Sample number(s): 6406208 UNSPK: P406270								
Ethanol	92	88	62-145	4	20				
Isopropanol	92	92	73-131	0	20				
Methanol	92	92	52-159	0	20				
Batch number: 112620009A	Sample number(s): 6406188 UNSPK: P403416								
Diethylene glycol	89	82	59-109	8	20				
Ethylene glycol	93	85	63-107	9	20				
Propylene glycol	81	75	63-107	8	20				
Batch number: 112620010A	Sample number(s): 6406191,6406195-6406199,6406203-6406206 UNSPK: 6406191								
Diethylene glycol	35*	30*	59-109	17	20				
Ethylene glycol	61*	58*	63-107	6	20				
Propylene glycol	70	68	63-107	2	20				
Batch number: 112630011A	Sample number(s): 6406188,6406191,6406195-6406199,6406203-6406206 UNSPK: 6406188								
m-Terphenyl	94	93	75-125	1	20				
o-Terphenyl	93	92	75-125	1	20				
p-Terphenyl	93	93	75-125	0	20				
Batch number: 112640002A	Sample number(s): 6406188,6406191,6406195-6406197,6406199,6406203-6406204,6406206 UNSPK: 6406188								
EFH (C12-C14)	0*	0*	49-123	0	20				
EFH (C15-C20)	-8*	0*	49-123	200*	20				
EFH (C21-C30)	-118*	-175*	49-123	40*	20				
EFH (C30 - C40)	-203 (2)	-291 (2)	49-123	26*	20				
EFH (C8-C11)	0*	0*	49-123	0	20				
Batch number: 112680001A	Sample number(s): 6406198,6406205 UNSPK: P404511								
EFH (C12-C14)	117	63	49-123	61*	20				
EFH (C15-C20)	229*	117	49-123	65*	20				
EFH (C21-C30)	667*	330*	49-123	53*	20				
EFH (C30 - C40)	1093*	653*	49-123	38*	20				
EFH (C8-C11)	112	54	49-123	71*	20				
Batch number: 112591026001A	Sample number(s): 6406188-6406206 UNSPK: 6406188 BKG: 6406188								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266447
Reported: 10/05/11 at 02:49 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Antimony	59*	47*	75-125	19	20	0.202	0.180 J	11 (1)	20
Arsenic	107	107	75-125	0	20	5.45	5.67	4	20
Beryllium	138*	116	75-125	11	20	0.675	0.705	4	20
Cadmium	148*	127*	75-125	14	20	0.207	0.210	1 (1)	20
Chromium	130*	121	75-125	3	20	17.2	18.0	5	20
Cobalt	142*	127*	75-125	11	20	5.77	5.98	4	20
Copper	136*	119	75-125	8	20	9.02	8.97	1	20
Lead	99 (2)	75 (2)	75-125	4	20	15.7	16.2	3	20
Nickel	139*	125	75-125	6	20	12.3	12.6	2	20
Silver	147*	129*	75-125	14	20	0.0468 J	0.0472 J	1 (1)	20
Thallium	127*	114	75-125	7	20	0.336	0.313	7 (1)	20
Vanadium	135*	120	75-125	4	20	34.5	37.0	7	20
Zinc	106 (2)	65 (2)	75-125	5	20	73.7	73.7	0	20
Batch number: 112591026001B	Sample number(s): 6406188-6406206 UNSPK: 6406188 BKG: 6406188								
Selenium	128*	120	75-125	7	20	0.206 J	0.197 J	5 (1)	20
Batch number: 112591026001C	Sample number(s): 6406188-6406206 UNSPK: 6406188 BKG: 6406188								
Molybdenum	148*	130*	75-125	13	20	0.726	0.765	5	20
Batch number: 112591026001D	Sample number(s): 6406188-6406206 UNSPK: 6406188 BKG: 6406188								
Barium	103 (2)	58 (2)	75-125	4	20	102	104	2	20
Batch number: 112595708002	Sample number(s): 6406188-6406206 UNSPK: 6406188 BKG: 6406188								
Aluminum	1331 (2)	1236 (2)	75-125	1	20	14,400	14,500	1	20
Boron	100	98	84-115	1	20	3.92 J	4.00 J	2 (1)	20
Calcium	142 (2)	121 (2)	75-125	3	20	2,530	2,440	4	20
Iron	627 (2)	5 (2)	75-125	4	20	16,100	16,600	3	20
Lithium	101	99	82-114	2	20	25.8	26.2	2	20
Magnesium	227 (2)	207 (2)	75-125	1	20	4,060	4,270	5	20
Manganese	105 (2)	92 (2)	75-125	2	20	275	278	1	20
Phosphorus	103	78	75-125	6	20	338	331	2	20
Potassium	126*	119	75-125	2	20	2,720	2,730	0	20
Sodium	98	97	75-125	1	20	82.2 J	80.2 J	3 (1)	20
Strontium	100	98	75-115	2	20	17.6	17.0	3	20
Tin	90	89	80-110	1	20	3.07 J	3.05 J	1 (1)	20
Titanium	308 (2)	241 (2)	75-125	5	20	1,110	1,100	1	20
Zirconium	91	91	75-125	0	20	2.40 J	2.90 J	19 (1)	20
Batch number: 112595711003	Sample number(s): 6406188-6406206 UNSPK: 6406188 BKG: 6406188								
Mercury	114	108	65-135	7	20	0.0175 J	0.0236 J	30* (1)	20
Batch number: 11259621203A	Sample number(s): 6406188-6406197,6406200-6406206 UNSPK: 6406188 BKG: 6406188								
7a Perchlorate EPA 314.0	88		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11259621203B	Sample number(s): 6406198-6406199 UNSPK: 6406198 BKG: 6406198								
7a Perchlorate EPA 314.0	93		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11263102201A	Sample number(s): 6406188,6406191,6406203-6406204 UNSPK: P404514 BKG: P404514								
16a Cyanide by 9012B	99		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11263263201A	Sample number(s): 6406188-6406197 UNSPK: 6406188 BKG: 6406188								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266447
Reported: 10/05/11 at 02:49 PM

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
11a Anions by 300.0 - Fluoride	66*		80-120			0.80 U	0.93 J	200* (1)	20
11a Anions by 300.0 - Nitrate	89		80-120			2.5	3.2	24* (1)	20
Batch number: 11263263201B	Sample number(s): 6406198-6406206 UNSPK: 6406198 BKG: 6406198								
11a Anions by 300.0 - Fluoride	59*		80-120			2.3	2.2	2 (1)	20
11a Anions by 300.0 - Nitrate	95		80-120			3.6	3.5	4 (1)	20
Batch number: 11264117101A	Sample number(s): 6406208 UNSPK: P406322 BKG: P406322								
16b Cyanide by 9012B	98		43-137			0.0050 U	0.0050 U	0 (1)	20
Batch number: 11269243202A	Sample number(s): 6406188-6406206 UNSPK: 6406206 BKG: 6406206								
3a Cr VI by EPA 7199	82		75-125			0.93 J	0.49 J	61* (1)	20
Batch number: 11259020003A	Sample number(s): 6406208 BKG: 6406208								
17b pH by 9040B						5.6	5.6	0	3
Batch number: 11265039403A	Sample number(s): 6406188-6406196 BKG: 6406190								
17a pH by 9045C						6.89	6.80	1	3
Batch number: 11265039403B	Sample number(s): 6406197-6406206 BKG: 6406200								
17a pH by 9045C						6.71	6.77	1	3
Batch number: 11263162401A	Sample number(s): 6406188-6406190,6406192-6406202,6406205 BKG: 6406205								
Moisture Content by 160.3						5.2	4.9	5	20
Batch number: 11263162401B	Sample number(s): 6406206 BKG: 6406206								
Moisture Content by 160.3						5.9	5.8	2	20
Batch number: 11272162401A	Sample number(s): 6406191,6406203-6406204 BKG: P404514								
Moisture Content by 160.3						6.2	4.9	24*	20

Surrogate Quality Control

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

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11260WAC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6406208	112	93	110
Blank	109	93	106
LCS	124	99	108
LCSD	125	93	106
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11262SLD026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266447
Reported: 10/05/11 at 02:49 PM

Surrogate Quality Control

6406188	85	88	95	78	83	77
6406189	88	92	106	80	84	82
6406190	76	80	107	71	76	75
6406191	68	73	80	65	72	64
6406192	81	86	96	76	84	80
6406193	80	84	88	77	86	79
6406194	81	86	93	77	85	78
6406195	78	85	97	74	83	77
6406196	76	80	93	72	79	76
6406197	74	77	77	70	79	75
6406198	72	76	88	69	75	74
6406199	81	85	78	78	83	77
6406200	64	66	76	60	67	59
6406201	81	86	101	76	91	78
6406202	78	86	97	76	84	73
6406203	77	84	80	76	85	73
6406204	79	85	78	76	85	76
6406205	70	76	81	68	80	72
6406206	72	78	89	72	83	76
Blank	77	81	105	74	80	79
LCS	85	90	120	81	88	82
MS	85	89	121	81	85	82
MSD	84	87	114	78	80	79
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11262SLE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6406188	112	99	107
6406189	129	94	110
6406190	100	86	98
6406191	108	96	105
6406192	111	91	98
6406193	91	87	98
6406194	97	90	103
6406195	83	77	101
6406196	90	86	102
6406197	85	84	101
6406198	86	81	95
6406199	96	90	100
6406200	101	95	112
6406201	96	88	108
6406202	95	90	100
6406203	89	97	106
6406204	94	89	102
6406205	87	85	107
6406206	90	85	112
Blank	103	84	100
LCS	121	89	104
MS	107	95	100
MSD	123	89	96
Limits:	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266447
Reported: 10/05/11 at 02:49 PM

Surrogate Quality Control

Batch number: 11264WAA026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6406208	57	37	87	92	91	82
Blank	53	32	93	98	94	83
LCS	62	40	86	91	89	77
LCSD	62	40	90	97	93	83
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 21b NDMA by 1625C
Batch number: 11264WAF026

	N-Nitrosodimethylamine-d6
6406208	80
Blank	66
LCS	71
LCSD	93
Limits:	50-150

Analysis Name: 21a NDMA by 1625C
Batch number: 11265SLB026

	N-Nitrosodimethylamine-d6
6406191	130
6406203	162*
6406204	159*
Blank	74
LCS	79
MS	193*
MSD	170*
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11264A34A

	Trifluorotoluene-F
6406203	28*
6406204	83
6406205	86
6406206	86
Blank	95
LCS	96
MS	128*
MSD	135*
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11269A53A

	Trifluorotoluene-F
6406207	73

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266447
Reported: 10/05/11 at 02:49 PM

Surrogate Quality Control

Blank	74
LCS	82
LCSD	82
Limits:	63-135

Analysis Name: 20b Formaldehyde 8315A
Batch number: 112590019A

	Butyraldehyde
6406208	101
Blank	101
LCS	98
LCSD	100
Limits:	45-145

Analysis Name: 20a Formaldehyde 8315A
Batch number: 112620004A

	Butyraldehyde
6406191	106
6406203	97
6406204	100
Blank	102
LCS	87
MS	100
MSD	102
Limits:	64-126

Analysis Name: 15b Energetics by 8330A
Batch number: 112620022A

	2-Nitro-m-xylene
6406208	99
Blank	97
LCS	100
LCSD	100
Limits:	50-134

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 112630003A

	2,4-Dichlorophenylacetic acid
6406189	146
6406190	225*
6406191	88
6406192	127
6406194	84
6406195	112
6406196	146
6406197	98
6406198	84
6406199	75

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Quality Control Summary

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Reported: 10/05/11 at 02:49 PM

Surrogate Quality Control

6406200	86	
6406201	98	
6406202	131	
Blank	98	
LCS	90	
MS	77	
MSD	110	
Limits:	36-156	

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 112630017A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6406208	123	107
Blank	112	111
LCS	117	112
LCSD	110	114
Limits:	30-150	45-120

Analysis Name: 12b Pesticides by 8081A
Batch number: 112630018A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6406208	101	107
Blank	98	105
LCS	109	109
LCSD	112	87
Limits:	52-141	40-144

Analysis Name: 13b Herbicides by EPA 8151
Batch number: 112630020A

	2,4-Dichlorophenylacetic acid
6406208	67
Blank	72
LCS	83
LCSD	86
Limits:	35-144

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112630022A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6406189	103	87
6406190	89	73
6406191	91	262*
6406192	90	80
6406193	80	67
6406194	90	96
6406195	126	92
6406196	100	76
6406197	86	71

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266447
Reported: 10/05/11 at 02:49 PM

Surrogate Quality Control

6406198	103	102
6406199	129	119
6406200	81	87
6406201	94	67
6406202	75	89
6406203	81	79
6406204	84	74
6406205	102	97
6406206	112	116
Blank	102	106
LCS	115	112
LCSD	108	104
MS	91	75
MSD	51*	43*
Limits:	53-139	45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 112630031A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6406188	60	94
6406189	80	93
6406190	55	87
6406191	82	95
6406192	48*	83
6406193	61	75
6406194	66	123*
6406195	70	85
6406196	56	91
6406197	50	65
6406198	53	92
6406199	57	86
6406200	65	112
6406201	55	84
6406202	79	119
Blank	41*	99
LCS	52	101
MS	64	92
MSD	57	97
Limits:	50-130	20-120

Analysis Name: 15a Energetics by 8330A
Batch number: 112640025A

	2-Nitro-m-xylene
6406191	117
6406203	118
6406204	113
Blank	114
LCS	115
LCSD	134
MS	108
MSD	109
Limits:	80-146

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266447
Reported: 10/05/11 at 02:49 PM

Surrogate Quality Control

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 112670005A

	2,4-Dichlorophenylacetic acid
6406188	78
6406193	84
Blank	98
LCS	91
MS	128
MSD	126
Limits:	36-156

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112670023A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6406188	102	90
Blank	121	117
LCS	125	123*
LCSD	107	109
MS	96	71
MSD	114	83
Limits:	53-139	45-120

Analysis Name: 18a Alcohols by 8015B
Batch number: 112580039A

	Acetone
6406188	141*
6406191	115
6406195	102
6406196	104
6406197	127
6406198	128
6406199	145*
6406203	101
6406204	103
6406205	87
6406206	102
Blank	109
LCS	97
MS	37*
MSD	114
Limits:	42-138

Analysis Name: 18b Alcohols by 8015B
Batch number: 112590024A

	Acetone
6406208	99
Blank	93
LCS	98
MS	103

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266447
Reported: 10/05/11 at 02:49 PM

Surrogate Quality Control

MSD 104

Limits: 54-147

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 112600007A

	Chlorobenzene	Orthoterphenyl
6406208	82	93
Blank	85	95
LCS	66	76
LCSD	80	99
Limits:	28-152	52-131

Analysis Name: 22b Terphenyls by 8015B
Batch number: 112620006A

	n-Triacontane-d62
6406208	70
Blank	68
LCS	68
LCSD	65
Limits:	17-138

Analysis Name: 19a Glycols by 8015B
Batch number: 112620009A

	Tetramethylene glycol
6406188	90
Blank	84
LCS	88
MS	78
MSD	77
Limits:	29-137

Analysis Name: 19a Glycols by 8015B
Batch number: 112620010A

	Tetramethylene glycol
6406191	83
6406195	79
6406196	85
6406197	76
6406198	82
6406199	85
6406203	79
6406204	86
6406205	85
6406206	87
Blank	85
LCS	93
MS	81
MSD	84

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**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266447
Reported: 10/05/11 at 02:49 PM

Surrogate Quality Control

Limits: 29-137

Analysis Name: 19b Glycols by 8015B
Batch number: 112630005A

	Tetramethylene glycol
6406208	114
Blank	36
LCS	124
LCSD	70

Limits: 29-157

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112630011A

	n-Triacontane-d62
6406188	346*
6406191	84
6406195	61
6406196	302*
6406197	71
6406198	71
6406199	101
6406203	61
6406204	81
6406205	68
6406206	69
Blank	67
LCS	67
MS	331*
MSD	317*

Limits: 19-152

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112640002A

	Chlorobenzene	Orthoterphenyl
6406188	33*	39*
6406191	83	96
6406195	75	91
6406196	52	97
6406197	83	103
6406199	6*	9*
6406203	67	87
6406204	75	93
6406206	75	98
Blank	76	103
LCS	91	106
MS	15*	19*
MSD	8*	10*

Limits: 37-125 47-145

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112680001A

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266447
Reported: 10/05/11 at 02:49 PM

Surrogate Quality Control

	Chlorobenzene	Orthoterphenyl
6406198	74	101
6406205	73	94
Blank	76	102
LCS	78	100
MS	76	101
MSD	44	54
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cp#1266447 Sample# 6406188-208

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 8 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-024-SA7-SS-0.0-0.5	09.14.11	1100	SOIL	NONE	1-SS Sleeve			X	X																		
SL-024-SA7-SS-0.0-0.5	09.14.11	1100	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X	X	X	X	X					X	X	X	X		
SL-026-SA7-SS-0.0-0.5	09.14.11		SOIL	NONE	1-SS Sleeve			X	X																		
SL-026-SA7-SS-0.0-0.5	09.14.11		SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											
SL-029-SA7-SS-0.0-0.5	09.14.11	0755	SOIL	NONE	1-SS Sleeve			X	X																		
SL-029-SA7-SS-0.0-0.5	09.14.11	0755	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											
SL-032-SA7-SS-0.0-0.5	09.14.11	1510	SOIL	NONE	1-SS Sleeve			X	X																		
SL-032-SA7-SS-0.0-0.5	09.14.11	1510	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-033-SA7-SS-0.0-0.5	09.14.11	1335	SOIL	NONE	1-SS Sleeve			X	X																		
SL-033-SA7-SS-0.0-0.5	09.14.11	1335	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											
SL-036-SA7-SS-0.0-0.5	09.14.11	0840	SOIL	NONE	1-SS Sleeve			X	X																		
SL-036-SA7-SS-0.0-0.5	09.14.11	0840	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											
SL-038-SA7-SS-0.0-0.5	09.14.11	1150	SOIL	NONE	1-SS Sleeve			X	X																		
SL-038-SA7-SS-0.0-0.5	09.14.11	1150	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											
SL-039-SA7-SS-0.0-0.5	09.14.11	0905	SOIL	NONE	1-SS Sleeve			X	X																		
SL-039-SA7-SS-0.0-0.5	09.14.11	0905	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	X						X	X	X		ONLY ONE JAR
SL-076-SA7-SS-0.0-0.5	09.14.11	0820	SOIL	NONE	1-SS Sleeve			X	X																		
SL-076-SA7-SS-0.0-0.5	09.14.11	0820	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X						X	X	X		
SL-077-SA7-SS-0.0-0.5	09.14.11	0940	SOIL	NONE	1-SS Sleeve			X	X																		
SL-077-SA7-SS-0.0-0.5	09.14.11	0940	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X						X	X	X		
SL-078-SA7-SS-0.0-0.5	09.14.11	1000	SOIL	NONE	1-SS Sleeve			X	X																		
SL-078-SA7-SS-0.0-0.5	09.14.11	1000	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X	X	X	X	X						X	X	X		
SL-099-SA7-SS-0.0-0.5	09.14.11	1040	SOIL	NONE	1-SS Sleeve			X	X																		
SL-099-SA7-SS-0.0-0.5	09.14.11	1040	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X						X	X	X		
SL-144-SA7-SS-0.0-0.5	09.14.11	1435	SOIL	NONE	1-SS Sleeve			X	X																		
SL-144-SA7-SS-0.0-0.5	09.14.11	1435	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											
SL-145-SA7-SS-0.0-0.5	09.14.11	1355	SOIL	NONE	1-SS Sleeve			X	X																		
SL-145-SA7-SS-0.0-0.5	09.14.11	1355	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											
SL-183-SA7-SS-0.0-0.5	09.14.11	1130	SOIL	NONE	1-SS Sleeve			X	X																		
SL-183-SA7-SS-0.0-0.5	09.14.11	1130	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	09/14/2011 / 1600		Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
Brandon Bunby	9-15-11 920	8754 3341 6530,6562,6540,6551	

acct# 13013 Cap# 1266447 Sample# 6406188-205

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-339-SA5B-SB-9.5	09.14.11	1010	SOIL	NONE	2- Encores										X										
SL-339-SA5B-SB-9.0-10.0	09.14.11	1009	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	ONLY 3 JARS
SL-340-SA5B-SB-9.5	09.14.11	0839	SOIL	NONE	2- Encores										X										
SL-340-SA5B-SB-9.0-10.0	09.14.11	0838	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	ONLY 3 JARS
SL-041-SA7-SB-4.5	09.14.11	1237	SOIL	NONE	2- Encores										X										
SL-041-SA7-SB-4.0-5.0	09.14.11	1236	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	ONLY 3 JARS
SL-071-SA7-SB-4.5	09.14.11	1442	SOIL	NONE	2- Encores										X										
SL-071-SA7-SB-4.0-5.0	09.14.11	1441	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X	
TB-091411	09.14.11	0800	WATER	NONE	2-10mL vials										X										

Relinquished by: (Signature) — Date/Time: 09/14/2011 / 1600 — Received for Laboratory by: (Signature)

Received by: (Signature) — Date/Time: 9-15-11 920 — Airbill No.(s): 8754 3341 6530,6562,6540,6551

Laboratory: Lancaster Laboratories, Inc.

acct#13013 Cap# 1266447 Sample# 6406188-208

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 8 (SA8) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/TCL's EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8316A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
EB-SA7-SS-091411	09.14.11	1400	WATER	NONE	12-1 liter ambers			X	X	X						X			X	X		X				
EB-SA7-SS-091411	09.14.11	1400	WATER	NONE	1-500 mL poly		X				X	X	X														
EB-SA7-SS-091411	09.14.11	1400	WATER	HNO3	1-500 mL poly	X																					
EB-SA7-SS-091411	09.14.11	1400	WATER	NaOH	1-500 mL glass																X					
EB-SA7-SS-091411	09.14.11	1400	WATER	NONE	1-250 mL glass													X								
EB-SA7-SS-091411	09.14.11	1400	WATER	HCl	2-40 mL vials																			X		
EB-SA7-SS-091411	09.14.11	1400	WATER	NONE	4-40 mL vials												X						X			

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	09/14/2011 / 1600		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
Brandy Bierday	9-15-11 920		

Nicole Maljovec

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Wednesday, September 14, 2011 7:28 PM
To: Nicole Maljovec
Subject: Today's COC

Nicole

I think I included an error on the COCs that went into the coolers. The COC I emailed is correct. The second sample on the SA7 surface page on the paper copies says SL-026 with no time. That line should be as it is in the emailed version= SL-028 with a time of 0735.

I hope that's all I messed up this time!!

Thank you!

Pam

Nicole Maljovec

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Thursday, September 15, 2011 9:33 AM
To: Nicole Maljovec; Bloisa, Peggy
Subject: RE: SSFL COC 9/14/11

Yes, sorry for the error!

Thanks,

Pam

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Thursday, September 15, 2011 6:17 AM
To: Hartman, Pamela; Bloisa, Peggy
Subject: RE: SSFL COC 9/14/11

Good morning all,
Can you update the Tetralin comment on the COC? On the last call it was decided to continue analyzing for Tetralin in SA7.

If anything has changed since the call, please let me know.

Thanks!
Nicole

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Wednesday, September 14, 2011 7:28 PM
To: Bloisa, Peggy; Burgesser, Todd; 'Laura Rainey'; Nicole Maljovec; SA Env Entry; Zakowski, Cherie
Subject: SSFL COC 9/14/11

Subsurface sampling in SA5B near Bldg 4010 was wrapped up this morning.
Subsurface sampling began in SA7 this afternoon and surface sampling continued in SA7.
COC for 9/14/11 is attached.

Thanks,

Pam

CONFIDENTIAL MATERIAL: This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If received in error, please notify sender by return e-mail and destroy all copies of the original transmission and any attachments. Thank you.

If you wish to view information about Lancaster Laboratories, Inc., please visit our website at www.lancasterlabs.com

Nicole Maljovec

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Thursday, September 15, 2011 10:37 AM
To: Nicole Maljovec
Subject: EB for 9/14/11

Attachments: COC_09_14_11.xlsx



COC_09_14_11.xlsx (40 KB)

Nicole

I just noticed that my columns for pest/herbs on the EB for yesterday were hidden. They are checked and I sent enough bottles for include those. I have attached a copy.

Thanks!

Pam

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									SS ONLY		SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	
Samplers Signatures:																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
EB-SA7-SS-091411	09.14.11	1400	WATER	NONE	12-1 liter ambers			X	X	X					X	X	X			X	X		X				
EB-SA7-SS-091411	09.14.11	1400	WATER	NONE	1-500 mL poly		X				X	X	X														
EB-SA7-SS-091411	09.14.11	1400	WATER	HNO3	1-500 mL poly	X																					
EB-SA7-SS-091411	09.14.11	1400	WATER	NaOH	1-500 mL glass																	X					
EB-SA7-SS-091411	09.14.11	1400	WATER	NONE	1-250 mL glass														X								
EB-SA7-SS-091411	09.14.11	1400	WATER	HCl	2-40 mL vials																				X		
EB-SA7-SS-091411	09.14.11	1400	WATER	NONE	4-40 mL vials													X						X			
Relinquished by: (*Signature*)	Date/Time 09/14/2011 / 1600		Received for Laboratory by: (*Signature*)																								Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time		Airbill No.(s) 8754 3341 6530,6562,6540,6551																								

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

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

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

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

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Lancaster Laboratories

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

Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

September 30, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/15/2011
Group Number: 1266448
SDG: DX134
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-024-SA7-SS-0.0-0.5 Soil	6406209
SL-028-SA7-SS-0.0-0.5 Soil	6406210
SL-029-SA7-SS-0.0-0.5 Soil	6406211
SL-032-SA7-SS-0.0-0.5 Soil	6406212
SL-033-SA7-SS-0.0-0.5 Soil	6406213
SL-036-SA7-SS-0.0-0.5 Soil	6406214
SL-038-SA7-SS-0.0-0.5 Soil	6406215
SL-039-SA7-SS-0.0-0.5 Soil	6406216
SL-076-SA7-SS-0.0-0.5 Soil	6406217
SL-077-SA7-SS-0.0-0.5 Soil	6406218
SL-078-SA7-SS-0.0-0.5 Soil	6406219
SL-099-SA7-SS-0.0-0.5 Soil	6406220
SL-144-SA7-SS-0.0-0.5 Soil	6406221
SL-145-SA7-SS-0.0-0.5 Soil	6406222

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

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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

Analysis Report

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

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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

Analysis Report

Sample Description: **SL-024-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA7-SS-0.0-0.5

LLI Sample # SW 6406209
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 11:00

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3407 SDG#: DX134-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.1	0.50	0.50	1

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

Sample Description: SL-024-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA7-SS-0.0-0.5

LLI Sample # SW 6406209
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 11:00

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3407 SDG#: DX134-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0414	U	0.0414	1.01	1
11031	12378-PeCDD	40321-76-4	0.375	JB	0.0484	5.05	1
11031	123478-HxCDD	39227-28-6	0.697	JB	0.0437	5.05	1
11031	123678-HxCDD	57653-85-7	2.13	JB	0.0430	5.05	1
11031	123789-HxCDD	19408-74-3	1.32	J	0.0425	5.05	1
11031	1234678-HpCDD	35822-46-9	59.6	B	0.0945	5.05	1
11031	OCDD	3268-87-9	609	B	0.0974	10.1	1
11031	2378-TCDF	51207-31-9	0.328	J	0.0612	1.01	1
11031	12378-PeCDF	57117-41-6	0.816	JB	0.0340	5.05	1
11031	23478-PeCDF	57117-31-4	0.742	JB	0.0334	5.05	1
11031	123478-HxCDF	70648-26-9	0.674	JB	0.0353	5.05	1
11031	123678-HxCDF	57117-44-9	0.481	JB	0.0288	5.05	1
11031	123789-HxCDF	72918-21-9	0.0436	U	0.0436	5.05	1
11031	234678-HxCDF	60851-34-5	0.532	JB	0.0319	5.05	1
11031	1234678-HpCDF	67562-39-4	5.05	B	0.0199	5.05	1
11031	1234789-HpCDF	55673-89-7	0.429	J	0.0428	5.05	1
11031	OCDF	39001-02-0	11.6	B	0.0514	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	103	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	50	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Lancaster Laboratories

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

Analysis Report

Sample Description: **SL-024-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA7-SS-0.0-0.5

LLI Sample # SW 6406209
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 11:00

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3407 SDG#: DX134-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-024-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA7-SS-0.0-0.5

LLI Sample # SW 6406209
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 11:00

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3407 SDG#: DX134-07

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11265001	09/24/2011 15:34	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11265001	09/22/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162401A	09/20/2011 19:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-028-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA7-SS-0.0-0.5

LLI Sample # SW 6406210
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 07:35

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3408 SDG#: DX134-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.1	0.50	0.50	1

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

Sample Description: SL-028-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA7-SS-0.0-0.5

LLI Sample # SW 6406210
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 07:35

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3408 SDG#: DX134-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.126	J	0.0394	1.01	1
11031	12378-PeCDD	40321-76-4	0.527	JB	0.0529	5.03	1
11031	123478-HxCDD	39227-28-6	0.782	JB	0.0415	5.03	1
11031	123678-HxCDD	57653-85-7	2.01	JB	0.0409	5.03	1
11031	123789-HxCDD	19408-74-3	1.34	J	0.0412	5.03	1
11031	1234678-HpCDD	35822-46-9	54.3	B	0.0857	5.03	1
11031	OCDD	3268-87-9	439	B	0.0776	10.1	1
11031	2378-TCDF	51207-31-9	0.854	J	0.0826	1.01	1
11031	12378-PeCDF	57117-41-6	1.60	JB	0.0420	5.03	1
11031	23478-PeCDF	57117-31-4	1.49	JB	0.0380	5.03	1
11031	123478-HxCDF	70648-26-9	1.51	JB	0.0376	5.03	1
11031	123678-HxCDF	57117-44-9	0.873	JB	0.0361	5.03	1
11031	123789-HxCDF	72918-21-9	0.341	JB	0.0412	5.03	1
11031	234678-HxCDF	60851-34-5	0.740	JB	0.0348	5.03	1
11031	1234678-HpCDF	67562-39-4	8.88	B	0.0298	5.03	1
11031	1234789-HpCDF	55673-89-7	0.760	J	0.0415	5.03	1
11031	OCDF	39001-02-0	25.9	B	0.0469	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	95	25 - 164
13C12-12378-PeCDD	99	25 - 181
13C12-123478-HxCDD	94	32 - 141
13C12-123678-HxCDD	99	28 - 130
13C12-123789-HxCDD	98	28 - 130
13C12-1234678-HpCDD	98	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	99	24 - 169
13C12-12378-PeCDF	101	24 - 185
13C12-23478-PeCDF	102	21 - 178
13C12-123478-HxCDF	89	26 - 152
13C12-123678-HxCDF	93	26 - 123
13C12-234678-HxCDF	93	28 - 136
13C12-123789-HxCDF	96	29 - 147
13C12-1234678-HpCDF	99	28 - 143
13C12-1234789-HpCDF	90	26 - 138
13C12-OCDF	78	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Sample Description: **SL-028-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA7-SS-0.0-0.5

LLI Sample # SW 6406210
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 07:35

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X3408 SDG#: DX134-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

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

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Analysis Report

Sample Description: **SL-028-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA7-SS-0.0-0.5

LLI Sample # SW 6406210
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 07:35

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3408 SDG#: DX134-08

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11265001	09/24/2011 16:31	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11265001	09/22/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162401A	09/20/2011 19:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-029-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA7-SS-0.0-0.5

LLI Sample # SW 6406211
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 07:55

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3409 SDG#: DX134-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.3	0.50	0.50	1

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

Sample Description: SL-029-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-029-SA7-SS-0.0-0.5

LLI Sample # SW 6406211
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 07:55

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3409 SDG#: DX134-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0926	JQ	0.0525	0.998	1
11031	12378-PeCDD	40321-76-4	0.378	JBQ	0.0483	4.99	1
11031	123478-HxCDD	39227-28-6	0.475	JB	0.0548	4.99	1
11031	123678-HxCDD	57653-85-7	1.55	JB	0.0576	4.99	1
11031	123789-HxCDD	19408-74-3	0.919	J	0.0565	4.99	1
11031	1234678-HpCDD	35822-46-9	45.7	B	0.0999	4.99	1
11031	OCDD	3268-87-9	449	B	0.0924	9.98	1
11031	2378-TCDF	51207-31-9	0.270	J	0.0616	0.998	1
11031	12378-PeCDF	57117-41-6	0.754	JB	0.0364	4.99	1
11031	23478-PeCDF	57117-31-4	0.620	JB	0.0340	4.99	1
11031	123478-HxCDF	70648-26-9	0.513	JB	0.0374	4.99	1
11031	123678-HxCDF	57117-44-9	0.361	JB	0.0358	4.99	1
11031	123789-HxCDF	72918-21-9	0.200	JBQ	0.0382	4.99	1
11031	234678-HxCDF	60851-34-5	0.320	JB	0.0348	4.99	1
11031	1234678-HpCDF	67562-39-4	3.58	JB	0.0322	4.99	1
11031	1234789-HpCDF	55673-89-7	0.252	J	0.0405	4.99	1
11031	OCDF	39001-02-0	8.87	JB	0.0510	9.98	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	85	25 - 164
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	90	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	90	24 - 169
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	93	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	91	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	85	26 - 138
13C12-OCDF	80	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-029-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA7-SS-0.0-0.5

LLI Sample # SW 6406211
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 07:55

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3409 SDG#: DX134-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-029-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-029-SA7-SS-0.0-0.5

LLI Sample # SW 6406211
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 07:55

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3409 SDG#: DX134-09

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11265001	09/24/2011 20:30	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11265001	09/22/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162401A	09/20/2011 19:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-032-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA7-SS-0.0-0.5

LLI Sample # SW 6406212
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 15:10

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3410 SDG#: DX134-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.95	0.50	0.50	1

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

Sample Description: SL-032-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA7-SS-0.0-0.5

LLI Sample # SW 6406212
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 15:10

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3410 SDG#: DX134-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.316 J	0.0464	0.991	1
11031	12378-PeCDD	40321-76-4	2.87 JB	0.0682	4.95	1
11031	123478-HxCDD	39227-28-6	5.82 B	0.106	4.95	1
11031	123678-HxCDD	57653-85-7	38.5 B	0.105	4.95	1
11031	123789-HxCDD	19408-74-3	14.7	0.103	4.95	1
11031	1234678-HpCDD	35822-46-9	2,630 EB	0.435	4.95	1
11031	OCDD	3268-87-9	39,300 EB	0.478	9.91	1
11031	2378-TCDF	51207-31-9	0.992	0.120	0.991	1
11031	12378-PeCDF	57117-41-6	1.14 JB	0.0555	4.95	1
11031	23478-PeCDF	57117-31-4	1.95 JB	0.0502	4.95	1
11031	123478-HxCDF	70648-26-9	4.69 JB	0.0531	4.95	1
11031	123678-HxCDF	57117-44-9	4.79 JB	0.0513	4.95	1
11031	123789-HxCDF	72918-21-9	0.958 JB	0.0571	4.95	1
11031	234678-HxCDF	60851-34-5	5.69 B	0.0515	4.95	1
11031	1234678-HpCDF	67562-39-4	71.2 B	0.0611	4.95	1
11031	1234789-HpCDF	55673-89-7	12.2	0.0824	4.95	1
11031	OCDF	39001-02-0	161 B	0.0704	9.91	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	70	26 - 138

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

Sample Description: **SL-032-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA7-SS-0.0-0.5

LLI Sample # SW 6406212
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 15:10

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3410 SDG#: DX134-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Labeled Compounds		**%Rec**	**Windows**			
13C12-OCDF		60	17 - 157			

Dioxins/Furans Data Qualifiers:

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-032-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA7-SS-0.0-0.5

LLI Sample # SW 6406212
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 15:10

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3410 SDG#: DX134-10

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11265001	09/24/2011 21:26	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11265001	09/22/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11272162401A	09/29/2011 21:46	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-033-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA7-SS-0.0-0.5

LLI Sample # SW 6406213
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 13:35

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3411 SDG#: DX134-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.4	0.50	0.50	1

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

Sample Description: SL-033-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA7-SS-0.0-0.5

LLI Sample # SW 6406213
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 13:35

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X3411 SDG#: DX134-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.113	J	0.0472	1.01	1
11031	12378-PeCDD	40321-76-4	0.599	JB	0.0659	5.06	1
11031	123478-HxCDD	39227-28-6	1.03	JB	0.0587	5.06	1
11031	123678-HxCDD	57653-85-7	3.28	JB	0.0598	5.06	1
11031	123789-HxCDD	19408-74-3	2.02	J	0.0581	5.06	1
11031	1234678-HpCDD	35822-46-9	126	B	0.159	5.06	1
11031	OCDD	3268-87-9	1,260	B	0.141	10.1	1
11650	2378-TCDF-Conf	51207-31-9	1.21	C	0.0532	1.01	1
11031	12378-PeCDF	57117-41-6	1.15	JB	0.0546	5.06	1
11031	23478-PeCDF	57117-31-4	1.61	JB	0.0530	5.06	1
11031	123478-HxCDF	70648-26-9	2.47	JB	0.0499	5.06	1
11031	123678-HxCDF	57117-44-9	1.01	JB	0.0440	5.06	1
11031	123789-HxCDF	72918-21-9	0.560	JB	0.0555	5.06	1
11031	234678-HxCDF	60851-34-5	1.14	JB	0.0445	5.06	1
11031	1234678-HpCDF	67562-39-4	18.1	B	0.0370	5.06	1
11031	1234789-HpCDF	55673-89-7	1.49	J	0.0677	5.06	1
11031	OCDF	39001-02-0	44.7	B	0.0690	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-2378-TCDF-Conf	71	24 - 169
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	64	17 - 157
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	49	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-033-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA7-SS-0.0-0.5

LLI Sample # SW 6406213
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 13:35

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3411 SDG#: DX134-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

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

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Analysis Report

Sample Description: **SL-033-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA7-SS-0.0-0.5

LLI Sample # SW 6406213
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 13:35

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3411 SDG#: DX134-11

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11265001	09/24/2011 22:23	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11265001	09/26/2011 03:21	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11265001	09/22/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162401A	09/20/2011 19:37	Scott W Freisher	1

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

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Analysis Report

Sample Description: **SL-036-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA7-SS-0.0-0.5

LLI Sample # SW 6406214
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 08:40

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3412 SDG#: DX134-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.75	0.50	0.50	1

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

Sample Description: SL-036-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA7-SS-0.0-0.5

LLI Sample # SW 6406214
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 08:40

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3412 SDG#: DX134-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0863	J	0.0520	1.00	1
11031	12378-PeCDD	40321-76-4	0.282	JBQ	0.0537	5.01	1
11031	123478-HxCDD	39227-28-6	0.559	JB	0.0483	5.01	1
11031	123678-HxCDD	57653-85-7	2.05	JB	0.0477	5.01	1
11031	123789-HxCDD	19408-74-3	1.30	J	0.0438	5.01	1
11031	1234678-HpCDD	35822-46-9	42.9	B	0.0885	5.01	1
11031	OCDD	3268-87-9	449	B	0.111	10.0	1
11031	2378-TCDF	51207-31-9	0.223	J	0.0441	1.00	1
11031	12378-PeCDF	57117-41-6	0.155	JB	0.0252	5.01	1
11031	23478-PeCDF	57117-31-4	0.429	JB	0.0256	5.01	1
11031	123478-HxCDF	70648-26-9	0.350	JB	0.0312	5.01	1
11031	123678-HxCDF	57117-44-9	0.551	JB	0.0263	5.01	1
11031	123789-HxCDF	72918-21-9	0.279	JB	0.0384	5.01	1
11031	234678-HxCDF	60851-34-5	0.351	JBQ	0.0285	5.01	1
11031	1234678-HpCDF	67562-39-4	3.79	JB	0.0212	5.01	1
11031	1234789-HpCDF	55673-89-7	0.272	JQ	0.0406	5.01	1
11031	OCDF	39001-02-0	8.70	JB	0.0664	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	51	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Sample Description: **SL-036-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA7-SS-0.0-0.5

LLI Sample # SW 6406214
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 08:40

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3412 SDG#: DX134-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

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

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Analysis Report

Sample Description: **SL-036-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA7-SS-0.0-0.5

LLI Sample # SW 6406214
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 08:40

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3412 SDG#: DX134-12

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11265001	09/24/2011 23:20	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11265001	09/22/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162401A	09/20/2011 19:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-038-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-038-SA7-SS-0.0-0.5

LLI Sample # SW 6406215
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 11:50

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3413 SDG#: DX134-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.0	0.50	0.50	1

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

Sample Description: SL-038-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA7-SS-0.0-0.5

LLI Sample # SW 6406215
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 11:50

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3413 SDG#: DX134-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0453	U	0.0453	0.996	1
11031	12378-PeCDD	40321-76-4	0.513	JBQ	0.0663	4.98	1
11031	123478-HxCDD	39227-28-6	1.36	JB	0.0678	4.98	1
11031	123678-HxCDD	57653-85-7	5.34	B	0.0684	4.98	1
11031	123789-HxCDD	19408-74-3	2.01	J	0.0702	4.98	1
11031	1234678-HpCDD	35822-46-9	228	B	0.195	4.98	1
11031	OCDD	3268-87-9	2,990	B	0.164	9.96	1
11650	2378-TCDF-Conf	51207-31-9	1.21	C	0.0765	0.996	1
11031	12378-PeCDF	57117-41-6	1.29	JB	0.0706	4.98	1
11031	23478-PeCDF	57117-31-4	3.73	JBQ	0.0664	4.98	1
11031	123478-HxCDF	70648-26-9	6.89	B	0.0588	4.98	1
11031	123678-HxCDF	57117-44-9	2.28	JB	0.0547	4.98	1
11031	123789-HxCDF	72918-21-9	1.69	JB	0.0583	4.98	1
11031	234678-HxCDF	60851-34-5	2.30	JB	0.0536	4.98	1
11031	1234678-HpCDF	67562-39-4	46.5	B	0.0507	4.98	1
11031	1234789-HpCDF	55673-89-7	4.72	J	0.0712	4.98	1
11031	OCDF	39001-02-0	116	B	0.0507	9.96	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-2378-TCDF-Conf	78	24 - 169
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	107	17 - 157
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	88	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	95	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Sample Description: **SL-038-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-038-SA7-SS-0.0-0.5

LLI Sample # SW 6406215
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 11:50

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3413 SDG#: DX134-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-038-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-038-SA7-SS-0.0-0.5

LLI Sample # SW 6406215
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 11:50

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3413 SDG#: DX134-13

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11265001	09/26/2011 14:24	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11265001	09/27/2011 22:56	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11265001	09/22/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162401A	09/20/2011 19:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-039-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA7-SS-0.0-0.5

LLI Sample # SW 6406216
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 09:05

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3414 SDG#: DX134-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.6	0.50	0.50	1

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

Sample Description: SL-039-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA7-SS-0.0-0.5

LLI Sample # SW 6406216
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 09:05

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3414 SDG#: DX134-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0351	U	0.0351	1.03	1
11031	12378-PeCDD	40321-76-4	0.0863	JBQ	0.0333	5.14	1
11031	123478-HxCDD	39227-28-6	0.171	JB	0.0371	5.14	1
11031	123678-HxCDD	57653-85-7	0.360	JB	0.0350	5.14	1
11031	123789-HxCDD	19408-74-3	0.229	J	0.0344	5.14	1
11031	1234678-HpCDD	35822-46-9	10.6	B	0.0550	5.14	1
11031	OCDD	3268-87-9	109	B	0.0622	10.3	1
11031	2378-TCDF	51207-31-9	0.0527	JQ	0.0302	1.03	1
11031	12378-PeCDF	57117-41-6	0.0202	U	0.0202	5.14	1
11031	23478-PeCDF	57117-31-4	0.124	JB	0.0183	5.14	1
11031	123478-HxCDF	70648-26-9	0.148	JB	0.0209	5.14	1
11031	123678-HxCDF	57117-44-9	0.117	JBQ	0.0204	5.14	1
11031	123789-HxCDF	72918-21-9	0.0232	U	0.0232	5.14	1
11031	234678-HxCDF	60851-34-5	0.0875	JBQ	0.0206	5.14	1
11031	1234678-HpCDF	67562-39-4	1.38	JB	0.0242	5.14	1
11031	1234789-HpCDF	55673-89-7	0.0627	J	0.0335	5.14	1
11031	OCDF	39001-02-0	4.01	JB	0.0379	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	85	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	66	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Sample Description: **SL-039-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA7-SS-0.0-0.5

LLI Sample # SW 6406216
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 09:05

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3414 SDG#: DX134-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-039-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA7-SS-0.0-0.5

LLI Sample # SW 6406216
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 09:05

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3414 SDG#: DX134-14

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11265001	09/25/2011 01:13	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11265001	09/22/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162401A	09/20/2011 19:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-076-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA7-SS-0.0-0.5

LLI Sample # SW 6406217
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 08:20

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3415 SDG#: DX134-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.9	0.50	0.50	1

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

Sample Description: SL-076-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA7-SS-0.0-0.5

LLI Sample # SW 6406217
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 08:20

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3415 SDG#: DX134-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0382	U	0.0382	1.02	1
11031	12378-PeCDD	40321-76-4	0.0261	U	0.0261	5.08	1
11031	123478-HxCDD	39227-28-6	0.0287	JB	0.0266	5.08	1
11031	123678-HxCDD	57653-85-7	0.0901	JB	0.0264	5.08	1
11031	123789-HxCDD	19408-74-3	0.0800	JQ	0.0253	5.08	1
11031	1234678-HpCDD	35822-46-9	1.97	JB	0.0348	5.08	1
11031	OCDD	3268-87-9	18.6	B	0.0555	10.2	1
11031	2378-TCDF	51207-31-9	0.0308	JQ	0.0266	1.02	1
11031	12378-PeCDF	57117-41-6	0.0872	JB	0.0164	5.08	1
11031	23478-PeCDF	57117-31-4	0.143	JB	0.0147	5.08	1
11031	123478-HxCDF	70648-26-9	0.0828	JBQ	0.0168	5.08	1
11031	123678-HxCDF	57117-44-9	0.0447	JBQ	0.0163	5.08	1
11031	123789-HxCDF	72918-21-9	0.0394	JBQ	0.0172	5.08	1
11031	234678-HxCDF	60851-34-5	0.0530	JBQ	0.0157	5.08	1
11031	1234678-HpCDF	67562-39-4	0.328	JB	0.0209	5.08	1
11031	1234789-HpCDF	55673-89-7	0.0663	JQ	0.0269	5.08	1
11031	OCDF	39001-02-0	0.735	JB	0.0432	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	89	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	89	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	65	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-076-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA7-SS-0.0-0.5

LLI Sample # SW 6406217
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 08:20

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3415 SDG#: DX134-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

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

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Analysis Report

Sample Description: **SL-076-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA7-SS-0.0-0.5

LLI Sample # SW 6406217
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 08:20

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3415 SDG#: DX134-15

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11265001	09/25/2011 02:09	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11265001	09/22/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162401A	09/20/2011 19:37	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-077-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-077-SA7-SS-0.0-0.5

LLI Sample # SW 6406218
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 09:40

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3416 SDG#: DX134-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.1	0.50	0.50	1

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

Sample Description: **SL-077-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-077-SA7-SS-0.0-0.5

LLI Sample # SW 6406218
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 09:40

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3416 SDG#: DX134-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0366	JQ	0.0347	1.01	1
11031	12378-PeCDD	40321-76-4	0.219	JB	0.0365	5.04	1
11031	123478-HxCDD	39227-28-6	0.315	JB	0.0370	5.04	1
11031	123678-HxCDD	57653-85-7	0.973	JB	0.0367	5.04	1
11031	123789-HxCDD	19408-74-3	0.680	J	0.0365	5.04	1
11031	1234678-HpCDD	35822-46-9	25.7	B	0.0600	5.04	1
11031	OCDD	3268-87-9	243	B	0.0743	10.1	1
11031	2378-TCDF	51207-31-9	0.138	J	0.0439	1.01	1
11031	12378-PeCDF	57117-41-6	0.344	JB	0.0226	5.04	1
11031	23478-PeCDF	57117-31-4	0.274	JB	0.0241	5.04	1
11031	123478-HxCDF	70648-26-9	0.456	JBQ	0.0278	5.04	1
11031	123678-HxCDF	57117-44-9	0.292	JB	0.0234	5.04	1
11031	123789-HxCDF	72918-21-9	0.143	JB	0.0369	5.04	1
11031	234678-HxCDF	60851-34-5	0.290	JB	0.0263	5.04	1
11031	1234678-HpCDF	67562-39-4	3.67	JB	0.0173	5.04	1
11031	1234789-HpCDF	55673-89-7	0.284	J	0.0408	5.04	1
11031	OCDF	39001-02-0	9.43	JB	0.0556	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	52	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	44	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Sample Description: **SL-077-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-077-SA7-SS-0.0-0.5

LLI Sample # SW 6406218
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 09:40

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3416 SDG#: DX134-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-077-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-077-SA7-SS-0.0-0.5

LLI Sample # SW 6406218
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 09:40

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3416 SDG#: DX134-16

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11265001	09/25/2011 03:06	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11265001	09/22/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162401A	09/20/2011 19:37	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-078-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA7-SS-0.0-0.5

LLI Sample # SW 6406219
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 10:00

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3417 SDG#: DX134-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.4	0.50	0.50	1

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

Sample Description: SL-078-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA7-SS-0.0-0.5

LLI Sample # SW 6406219
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 10:00

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3417 SDG#: DX134-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.124	J	0.0373	1.00	1
11031	12378-PeCDD	40321-76-4	1.07	JB	0.0534	5.02	1
11031	123478-HxCDD	39227-28-6	2.14	JB	0.0480	5.02	1
11031	123678-HxCDD	57653-85-7	5.97	B	0.0475	5.02	1
11031	123789-HxCDD	19408-74-3	4.15	J	0.0473	5.02	1
11031	1234678-HpCDD	35822-46-9	183	B	0.119	5.02	1
11031	OCDD	3268-87-9	1,400	B	0.118	10.0	1
11031	2378-TCDF	51207-31-9	0.117	J	0.0549	1.00	1
11031	12378-PeCDF	57117-41-6	0.406	JB	0.0283	5.02	1
11031	23478-PeCDF	57117-31-4	0.340	JB	0.0301	5.02	1
11031	123478-HxCDF	70648-26-9	1.61	JB	0.0428	5.02	1
11031	123678-HxCDF	57117-44-9	1.55	JB	0.0356	5.02	1
11031	123789-HxCDF	72918-21-9	0.282	JB	0.0528	5.02	1
11031	234678-HxCDF	60851-34-5	2.42	JB	0.0394	5.02	1
11031	1234678-HpCDF	67562-39-4	68.7	B	0.0387	5.02	1
11031	1234789-HpCDF	55673-89-7	2.86	J	0.0924	5.02	1
11031	OCDF	39001-02-0	213	B	0.0955	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	91	25 - 164
13C12-12378-PeCDD	99	25 - 181
13C12-123478-HxCDD	94	32 - 141
13C12-123678-HxCDD	94	28 - 130
13C12-123789-HxCDD	92	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	91	24 - 169
13C12-12378-PeCDF	104	24 - 185
13C12-23478-PeCDF	92	21 - 178
13C12-123478-HxCDF	82	26 - 152
13C12-123678-HxCDF	95	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	120	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	49	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Lancaster Laboratories

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

Analysis Report

Sample Description: **SL-078-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA7-SS-0.0-0.5

LLI Sample # SW 6406219
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 10:00

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3417 SDG#: DX134-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-078-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA7-SS-0.0-0.5

LLI Sample # SW 6406219
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 10:00

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3417 SDG#: DX134-17

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11265001	09/25/2011 04:02	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11265001	09/22/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162401A	09/20/2011 19:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-099-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA7-SS-0.0-0.5

LLI Sample # SW 6406220
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 10:40

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3418 SDG#: DX134-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.1	0.50	0.50	1

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

Sample Description: SL-099-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-099-SA7-SS-0.0-0.5

LLI Sample # SW 6406220
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 10:40

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3418 SDG#: DX134-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0629	J	0.0424	1.00	1
11031	12378-PeCDD	40321-76-4	0.655	JB	0.0593	5.02	1
11031	123478-HxCDD	39227-28-6	1.03	JB	0.0391	5.02	1
11031	123678-HxCDD	57653-85-7	2.79	JB	0.0383	5.02	1
11031	123789-HxCDD	19408-74-3	1.93	J	0.0389	5.02	1
11031	1234678-HpCDD	35822-46-9	57.8	B	0.0939	5.02	1
11031	OCDD	3268-87-9	550	B	0.0916	10.0	1
11031	2378-TCDF	51207-31-9	0.375	J	0.0703	1.00	1
11031	12378-PeCDF	57117-41-6	0.766	JB	0.0327	5.02	1
11031	23478-PeCDF	57117-31-4	1.14	JB	0.0343	5.02	1
11031	123478-HxCDF	70648-26-9	1.24	JB	0.0338	5.02	1
11031	123678-HxCDF	57117-44-9	1.07	JB	0.0277	5.02	1
11031	123789-HxCDF	72918-21-9	0.435	JB	0.0450	5.02	1
11031	234678-HxCDF	60851-34-5	1.40	JB	0.0324	5.02	1
11031	1234678-HpCDF	67562-39-4	6.32	B	0.0190	5.02	1
11031	1234789-HpCDF	55673-89-7	0.706	J	0.0505	5.02	1
11031	OCDF	39001-02-0	10.7	B	0.0618	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	112	28 - 143
13C12-1234789-HpCDF	52	26 - 138
13C12-OCDF	41	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Sample Description: **SL-099-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA7-SS-0.0-0.5

LLI Sample # SW 6406220
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 10:40

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3418 SDG#: DX134-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

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

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Analysis Report

Sample Description: **SL-099-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-099-SA7-SS-0.0-0.5

LLI Sample # SW 6406220
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 10:40

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3418 SDG#: DX134-18

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11265001	09/25/2011 04:59	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11265001	09/22/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162401A	09/20/2011 19:37	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-144-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA7-SS-0.0-0.5

LLI Sample # SW 6406221
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 14:35

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3419 SDG#: DX134-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.75	0.50	0.50	1

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

Sample Description: **SL-144-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA7-SS-0.0-0.5

LLI Sample # SW 6406221
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 14:35

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3419 SDG#: DX134-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.186	J	0.0432	0.993	1
11031	12378-PeCDD	40321-76-4	0.585	JB	0.0620	4.96	1
11031	123478-HxCDD	39227-28-6	0.659	JB	0.0407	4.96	1
11031	123678-HxCDD	57653-85-7	2.01	JB	0.0395	4.96	1
11031	123789-HxCDD	19408-74-3	1.35	J	0.0379	4.96	1
11031	1234678-HpCDD	35822-46-9	45.8	B	0.0661	4.96	1
11031	OCDD	3268-87-9	360	B	0.0793	9.93	1
11650	2378-TCDF-Conf	51207-31-9	0.752	JC	0.0785	0.993	1
11031	12378-PeCDF	57117-41-6	2.70	JB	0.0643	4.96	1
11031	23478-PeCDF	57117-31-4	1.56	JB	0.0569	4.96	1
11031	123478-HxCDF	70648-26-9	4.72	JB	0.0394	4.96	1
11031	123678-HxCDF	57117-44-9	1.21	JB	0.0383	4.96	1
11031	123789-HxCDF	72918-21-9	0.300	JB	0.0412	4.96	1
11031	234678-HxCDF	60851-34-5	0.875	JB	0.0367	4.96	1
11031	1234678-HpCDF	67562-39-4	10.7	B	0.0298	4.96	1
11031	1234789-HpCDF	55673-89-7	1.06	J	0.0364	4.96	1
11031	OCDF	39001-02-0	25.0	B	0.0442	9.93	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	85	25 - 164
13C12-2378-TCDF-Conf	78	24 - 169
13C12-12378-PeCDD	93	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	76	17 - 157
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	95	21 - 178
13C12-123478-HxCDF	84	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	81	26 - 138
13C12-OCDF	69	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-144-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA7-SS-0.0-0.5

LLI Sample # SW 6406221
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 14:35

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3419 SDG#: DX134-19

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

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-144-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA7-SS-0.0-0.5

LLI Sample # SW 6406221
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 14:35

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3419 SDG#: DX134-19

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11265001	09/25/2011 11:48	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11265001	09/26/2011 04:27	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11265001	09/22/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162401A	09/20/2011 19:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-145-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-145-SA7-SS-0.0-0.5

LLI Sample # SW 6406222
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 13:55

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3420 SDG#: DX134-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.67	0.50	0.50	1

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

Sample Description: SL-145-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA7-SS-0.0-0.5

LLI Sample # SW 6406222
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 13:55

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3420 SDG#: DX134-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0325	U	0.0325	1.01	1
11031	12378-PeCDD	40321-76-4	0.0898	JB	0.0319	5.03	1
11031	123478-HxCDD	39227-28-6	0.104	JB	0.0281	5.03	1
11031	123678-HxCDD	57653-85-7	0.329	JBQ	0.0291	5.03	1
11031	123789-HxCDD	19408-74-3	0.273	J	0.0277	5.03	1
11031	1234678-HpCDD	35822-46-9	6.84	B	0.0368	5.03	1
11031	OCDD	3268-87-9	61.2	B	0.0576	10.1	1
11031	2378-TCDF	51207-31-9	0.210	J	0.0517	1.01	1
11031	12378-PeCDF	57117-41-6	0.140	JB	0.0243	5.03	1
11031	23478-PeCDF	57117-31-4	0.324	JB	0.0236	5.03	1
11031	123478-HxCDF	70648-26-9	0.391	JB	0.0217	5.03	1
11031	123678-HxCDF	57117-44-9	0.134	JB	0.0197	5.03	1
11031	123789-HxCDF	72918-21-9	0.0770	JBQ	0.0246	5.03	1
11031	234678-HxCDF	60851-34-5	0.197	JB	0.0202	5.03	1
11031	1234678-HpCDF	67562-39-4	1.60	JB	0.0162	5.03	1
11031	1234789-HpCDF	55673-89-7	0.145	J	0.0274	5.03	1
11031	OCDF	39001-02-0	4.08	JB	0.0460	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	59	17 - 157

Dioxins/Furans Data Qualifiers:

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

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-145-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-145-SA7-SS-0.0-0.5

LLI Sample # SW 6406222
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 13:55

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3420 SDG#: DX134-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

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

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-145-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-145-SA7-SS-0.0-0.5

LLI Sample # SW 6406222
LLI Group # 1266448
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 13:55

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:05

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

X3420 SDG#: DX134-20*

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11265001	09/25/2011 12:45	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11265001	09/22/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162401A	09/20/2011 19:37	Scott W Freisher	1

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

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266448
Reported: 09/30/11 at 08:05 AM

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

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11263162401A	Sample number(s): 6406209-6406211,6406213-6406222								
Moisture Content by 160.3					100		80-120		
Batch number: 11272162401A	Sample number(s): 6406212								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11265001	Sample number(s): 6406209-6406222								
2378-TCDD	0.0455 U	0.0455	1.00	ng/kg	93		67-158		
12378-PeCDD	0.0424 J	0.0328	5.00	ng/kg	94		70-142		
123478-HxCDD	0.0231 J	0.0214	5.00	ng/kg	92		70-164		
123678-HxCDD	0.0260 J	0.0214	5.00	ng/kg	88		76-134		
123789-HxCDD	0.0205 U	0.0205	5.00	ng/kg	89		64-162		
1234678-HpCDD	0.215 J	0.0256	5.00	ng/kg	91		70-140		
OCDD	0.344 J	0.0285	10.0	ng/kg	87		78-144		
2378-TCDF	0.0384 U	0.0384	1.00	ng/kg	96		75-158		
2378-TCDF-Conf	0.0272 U	0.0272	1.00	ng/kg	96		75-158		
12378-PeCDF	0.0374 J	0.0166	5.00	ng/kg	91		80-134		
23478-PeCDF	0.0416 J	0.0166	5.00	ng/kg	89		68-160		
123478-HxCDF	0.0454 J	0.0180	5.00	ng/kg	89		72-134		
123678-HxCDF	0.0212 J	0.0146	5.00	ng/kg	87		84-130		
123789-HxCDF	0.0431 J	0.0207	5.00	ng/kg	88		78-130		
234678-HxCDF	0.0312 J	0.0159	5.00	ng/kg	89		70-156		
1234678-HpCDF	0.122 J	0.0107	5.00	ng/kg	86		82-122		
1234789-HpCDF	0.0228 U	0.0228	5.00	ng/kg	88		78-138		
OCDF	0.174 J	0.0517	10.0	ng/kg	86		63-170		

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11263162401A	Sample number(s): 6406209-6406211,6406213-6406222					BKG: P406205			
Moisture Content by 160.3						5.2	4.9	5	20
Batch number: 11272162401A	Sample number(s): 6406212					BKG: P404514			
Moisture Content by 160.3						6.2	4.9	24*	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266448
Reported: 09/30/11 at 08:05 AM

Surrogate Quality Control

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

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11265001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6406209	80	84	70	82	73	65
6406210	95	102	89	93	93	96
6406211	85	93	81	84	85	91
6406212	81	82	76	78	79	83
6406213	80	82	71	80	76	71
6406214	77	78	67	78	70	62
6406215	81	76	73	79	81	88
6406216	81	86	79	82	79	84
6406217	83	89	81	83	81	85
6406218	77	73	65	79	68	52
6406219	91	92	82	95	84	75
6406220	82	79	71	86	74	64
6406221	85	95	84	83	86	87
6406222	78	80	70	79	75	75
Blank	80	86	72	87	78	72
OPR	74	84	69	80	75	75
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6406209	103	58	50	90	83	84
6406210	99	90	78	99	94	99
6406211	91	85	80	92	84	90
6406212	79	70	60	81	77	81
6406213	85	59	49	86	81	81
6406214	93	58	51	84	77	78
6406215	86	77	95	75	81	84
6406216	87	72	66	84	81	85
6406217	82	76	65	90	84	85
6406218	98	53	44	80	79	81
6406219	120	62	49	99	94	94
6406220	112	52	41	84	83	85
6406221	85	81	69	93	85	88
6406222	91	66	59	81	79	81
Blank	117	65	60	96	92	94
OPR	104	67	61	90	83	85
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6406209	83	84	79	80	91	
6406210	98	98	90	99	101	
6406211	88	91	86	90	95	
6406212	80	80	69	83	82	
6406213	81	75	64		87	71
6406214	78	78	71	73	87	

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266448
Reported: 09/30/11 at 08:05 AM

Surrogate Quality Control

6406215	82	85	107		81	78
6406216	85	84	78	85	85	
6406217	85	82	72	89	88	
6406218	81	80	70	74	85	
6406219	92	92	79	91	104	
6406220	85	83	75	81	93	
6406221	87	86	76		95	78
6406222	82	80	72	80	87	
Blank	92	99	95	71	95	64
OPR	85	88	87	71	91	71
Limits:	28-130	23-140	17-157	24-169	24-185	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Ap# 1266443 Samp6# 6406209-22.

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonol EPA 8270	Other Instructions and Notes
SL-024-SA7-SS-0.0-0.5	09.14.11	1100	SOIL	NONE	1-SS Sleeve			X	X																		
SL-024-SA7-SS-0.0-0.5	09.14.11	1100	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X	X	X	X	X						X	X	X	X	
SL-026-SA7-SS-0.0-0.5	09.14.11		SOIL	NONE	1-SS Sleeve			X	X																		
SL-026-SA7-SS-0.0-0.5	09.14.11		SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											
SL-029-SA7-SS-0.0-0.5	09.14.11	0755	SOIL	NONE	1-SS Sleeve			X	X																		
SL-029-SA7-SS-0.0-0.5	09.14.11	0755	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											
SL-032-SA7-SS-0.0-0.5	09.14.11	1510	SOIL	NONE	1-SS Sleeve			X	X																		
SL-032-SA7-SS-0.0-0.5	09.14.11	1510	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	
SL-033-SA7-SS-0.0-0.5	09.14.11	1335	SOIL	NONE	1-SS Sleeve			X	X																		
SL-033-SA7-SS-0.0-0.5	09.14.11	1335	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											
SL-036-SA7-SS-0.0-0.5	09.14.11	0840	SOIL	NONE	1-SS Sleeve			X	X																		
SL-036-SA7-SS-0.0-0.5	09.14.11	0840	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											
SL-038-SA7-SS-0.0-0.5	09.14.11	1150	SOIL	NONE	1-SS Sleeve			X	X																		
SL-038-SA7-SS-0.0-0.5	09.14.11	1150	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											
SL-039-SA7-SS-0.0-0.5	09.14.11	0905	SOIL	NONE	1-SS Sleeve			X	X																		
SL-039-SA7-SS-0.0-0.5	09.14.11	0905	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	X						X	X	X		
SL-076-SA7-SS-0.0-0.5	09.14.11	0820	SOIL	NONE	1-SS Sleeve			X	X																		ONLY ONE JAR
SL-076-SA7-SS-0.0-0.5	09.14.11	0820	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X						X	X	X		
SL-077-SA7-SS-0.0-0.5	09.14.11	0940	SOIL	NONE	1-SS Sleeve			X	X																		
SL-077-SA7-SS-0.0-0.5	09.14.11	0940	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X						X	X	X		
SL-078-SA7-SS-0.0-0.5	09.14.11	1000	SOIL	NONE	1-SS Sleeve			X	X																		
SL-078-SA7-SS-0.0-0.5	09.14.11	1000	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X	X	X	X	X						X	X	X		
SL-099-SA7-SS-0.0-0.5	09.14.11	1040	SOIL	NONE	1-SS Sleeve			X	X																		
SL-099-SA7-SS-0.0-0.5	09.14.11	1040	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X						X	X	X		
SL-144-SA7-SS-0.0-0.5	09.14.11	1435	SOIL	NONE	1-SS Sleeve			X	X																		
SL-144-SA7-SS-0.0-0.5	09.14.11	1435	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											
SL-145-SA7-SS-0.0-0.5	09.14.11	1355	SOIL	NONE	1-SS Sleeve			X	X																		
SL-145-SA7-SS-0.0-0.5	09.14.11	1355	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											
SL-183-SA7-SS-0.0-0.5	09.14.11	1130	SOIL	NONE	1-SS Sleeve			X	X																		
SL-183-SA7-SS-0.0-0.5	09.14.11	1130	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	09/14/2011 / 1600		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
Brandon Bundy	9-15-11 920	8754 3341 6530,6562,6540,6551	

Nicole Maljovec

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Wednesday, September 14, 2011 7:28 PM
To: Nicole Maljovec
Subject: Today's COC

Nicole

I think I included an error on the COCs that went into the coolers. The COC I emailed is correct. The second sample on the SA7 surface page on the paper copies says SL-026 with no time. That line should be as it is in the emailed version= SL-028 with a time of 0735.

I hope that's all I messed up this time!!

Thank you!

Pam

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

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

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

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

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Lancaster Laboratories

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

Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

September 30, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/15/2011
Group Number: 1266450
SDG: DX135
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-183-SA7-SS-0.0-0.5 Soil	6406234
SL-339-SA5B-SB-9.0-10.0 Soil	6406235
SL-340-SA5B-SB-9.0-10.0 Soil	6406236
SL-041-SA7-SB-4.0-5.0 Soil	6406237
SL-071-SA7-SB-4.0-5.0 Soil	6406238
EB-SA7-SS-091411 Water	6406239

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

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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

Analysis Report

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

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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

Analysis Report

Sample Description: **SL-183-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-183-SA7-SS-0.0-0.5

LLI Sample # SW 6406234
LLI Group # 1266450
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 11:30

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:09

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

X3501 SDG#: DX135-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.3	0.50	0.50	1

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

Lancaster Laboratories

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

Analysis Report

Sample Description: SL-183-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA7-SS-0.0-0.5

LLI Sample # SW 6406234
LLI Group # 1266450
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 11:30

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3501 SDG#: DX135-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.166	JQ	0.0912	1.01	1
11031	12378-PeCDD	40321-76-4	1.02	JQ	0.0966	5.05	1
11031	123478-HxCDD	39227-28-6	2.32	J	0.0975	5.05	1
11031	123678-HxCDD	57653-85-7	8.21		0.105	5.05	1
11031	123789-HxCDD	19408-74-3	4.62	JB	0.0818	5.05	1
11031	1234678-HpCDD	35822-46-9	273	B	0.235	5.05	1
11031	OCDD	3268-87-9	2,210	B	0.190	10.1	1
11650	2378-TCDF-Conf	51207-31-9	1.99	CQ	0.0737	1.01	1
11031	12378-PeCDF	57117-41-6	1.64	J	0.0919	5.05	1
11031	23478-PeCDF	57117-31-4	2.53	JBQ	0.0826	5.05	1
11031	123478-HxCDF	70648-26-9	2.50	JB	0.0764	5.05	1
11031	123678-HxCDF	57117-44-9	1.54	JB	0.0730	5.05	1
11031	123789-HxCDF	72918-21-9	0.637	JB	0.0688	5.05	1
11031	234678-HxCDF	60851-34-5	2.18	JB	0.0680	5.05	1
11031	1234678-HpCDF	67562-39-4	39.2	B	0.0865	5.05	1
11031	1234789-HpCDF	55673-89-7	2.45	J	0.101	5.05	1
11031	OCDF	39001-02-0	135	B	0.0748	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-2378-TCDF-Conf	66	24 - 169
13C12-12378-PeCDD	60	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	100	17 - 157
13C12-12378-PeCDF	62	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	88	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-183-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-183-SA7-SS-0.0-0.5

LLI Sample # SW 6406234
LLI Group # 1266450
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 11:30

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3501 SDG#: DX135-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-183-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-183-SA7-SS-0.0-0.5

LLI Sample # SW 6406234
LLI Group # 1266450
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 11:30

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3501 SDG#: DX135-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11266001	09/26/2011 15:20	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11266001	09/28/2011 00:02	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11266001	09/24/2011 10:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162401A	09/20/2011 19:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-339-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-339-SA5B-SB-9.0-10.0

LLI Sample # SW 6406235
LLI Group # 1266450
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 10:09

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3502 SDG#: DX135-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-339-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-339-SA5B-SB-9.0-10.0

LLI Sample # SW 6406235
LLI Group # 1266450
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 10:09

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3502 SDG#: DX135-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0725	U	0.0725	1.08	1
11031	12378-PeCDD	40321-76-4	0.419	JQ	0.0614	5.40	1
11031	123478-HxCDD	39227-28-6	0.503	J	0.0782	5.40	1
11031	123678-HxCDD	57653-85-7	1.30	JQ	0.0759	5.40	1
11031	123789-HxCDD	19408-74-3	1.58	JB	0.0676	5.40	1
11031	1234678-HpCDD	35822-46-9	32.7	B	0.109	5.40	1
11031	OCDD	3268-87-9	406	B	0.122	10.8	1
11031	2378-TCDF	51207-31-9	0.0724	JQ	0.0540	1.08	1
11031	12378-PeCDF	57117-41-6	0.0485	JQ	0.0303	5.40	1
11031	23478-PeCDF	57117-31-4	0.204	JB	0.0276	5.40	1
11031	123478-HxCDF	70648-26-9	0.234	JBQ	0.0745	5.40	1
11031	123678-HxCDF	57117-44-9	0.222	JB	0.0658	5.40	1
11031	123789-HxCDF	72918-21-9	0.128	JBQ	0.0372	5.40	1
11031	234678-HxCDF	60851-34-5	0.424	JB	0.0372	5.40	1
11031	1234678-HpCDF	67562-39-4	4.23	JB	0.0752	5.40	1
11031	1234789-HpCDF	55673-89-7	0.371	J	0.0647	5.40	1
11031	OCDF	39001-02-0	9.04	JB	0.0716	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	93	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	38	26 - 152
13C12-123678-HxCDF	44	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	90	29 - 147
13C12-1234678-HpCDF	52	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	75	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-339-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-339-SA5B-SB-9.0-10.0

LLI Sample # SW 6406235
LLI Group # 1266450
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 10:09

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3502 SDG#: DX135-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-339-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-339-SA5B-SB-9.0-10.0

LLI Sample # SW 6406235
LLI Group # 1266450
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 10:09

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3502 SDG#: DX135-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11266001	09/26/2011 16:17	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11266001	09/24/2011 10:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11272162401A	09/29/2011 21:46	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-340-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-340-SA5B-SB-9.0-10.0

LLI Sample # SW 6406236
LLI Group # 1266450
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 08:38

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3503 SDG#: DX135-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-340-SA5B-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-340-SA5B-SB-9.0-10.0

LLI Sample # SW 6406236
LLI Group # 1266450
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 08:38

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3503 SDG#: DX135-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0939	JQ	0.0661	1.11	1
11031	12378-PeCDD	40321-76-4	0.595	JQ	0.0698	5.57	1
11031	123478-HxCDD	39227-28-6	1.08	J	0.0665	5.57	1
11031	123678-HxCDD	57653-85-7	2.04	J	0.0661	5.57	1
11031	123789-HxCDD	19408-74-3	2.61	JB	0.0550	5.57	1
11031	1234678-HpCDD	35822-46-9	59.0	B	0.133	5.57	1
11031	OCDD	3268-87-9	734	B	0.143	11.1	1
11031	2378-TCDF	51207-31-9	0.0636	JQ	0.0570	1.11	1
11031	12378-PeCDF	57117-41-6	0.0900	JQ	0.0297	5.57	1
11031	23478-PeCDF	57117-31-4	0.214	JBQ	0.0265	5.57	1
11031	123478-HxCDF	70648-26-9	0.354	JB	0.0502	5.57	1
11031	123678-HxCDF	57117-44-9	0.477	JB	0.0442	5.57	1
11031	123789-HxCDF	72918-21-9	0.157	JBQ	0.0388	5.57	1
11031	234678-HxCDF	60851-34-5	0.992	JBQ	0.0391	5.57	1
11031	1234678-HpCDF	67562-39-4	9.06	B	0.0529	5.57	1
11031	1234789-HpCDF	55673-89-7	0.713	J	0.0669	5.57	1
11031	OCDF	39001-02-0	20.6	B	0.0777	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	93	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	96	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	74	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-340-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-340-SA5B-SB-9.0-10.0

LLI Sample # SW 6406236
LLI Group # 1266450
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 08:38

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3503 SDG#: DX135-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-340-SA5B-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-340-SA5B-SB-9.0-10.0

LLI Sample # SW 6406236
LLI Group # 1266450
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 08:38

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3503 SDG#: DX135-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11266001	09/26/2011 17:13	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11266001	09/24/2011 10:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11272162401A	09/29/2011 21:46	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-041-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA7-SB-4.0-5.0

LLI Sample # SW 6406237
LLI Group # 1266450
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 12:36

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3504 SDG#: DX135-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-041-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-041-SA7-SB-4.0-5.0

LLI Sample # SW 6406237
LLI Group # 1266450
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 12:36

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3504 SDG#: DX135-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0697	U	0.0697	1.04	1
11031	12378-PeCDD	40321-76-4	0.0439	U	0.0439	5.22	1
11031	123478-HxCDD	39227-28-6	0.0339	U	0.0339	5.22	1
11031	123678-HxCDD	57653-85-7	0.0380	JQ	0.0353	5.22	1
11031	123789-HxCDD	19408-74-3	0.0469	JB	0.0316	5.22	1
11031	1234678-HpCDD	35822-46-9	0.348	JBQ	0.0505	5.22	1
11031	OCDD	3268-87-9	1.21	JB	0.0467	10.4	1
11031	2378-TCDF	51207-31-9	0.0521	JQ	0.0513	1.04	1
11031	12378-PeCDF	57117-41-6	0.0369	JQ	0.0253	5.22	1
11031	23478-PeCDF	57117-31-4	0.0839	JBQ	0.0225	5.22	1
11031	123478-HxCDF	70648-26-9	0.0442	JB	0.0335	5.22	1
11031	123678-HxCDF	57117-44-9	0.0340	JB	0.0276	5.22	1
11031	123789-HxCDF	72918-21-9	0.0422	JB	0.0251	5.22	1
11031	234678-HxCDF	60851-34-5	0.0472	JBQ	0.0216	5.22	1
11031	1234678-HpCDF	67562-39-4	0.0987	JBQ	0.0308	5.22	1
11031	1234789-HpCDF	55673-89-7	0.0615	JQ	0.0389	5.22	1
11031	OCDF	39001-02-0	0.219	JB	0.0635	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	50	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	67	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-041-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA7-SB-4.0-5.0

LLI Sample # SW 6406237
LLI Group # 1266450
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 12:36

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3504 SDG#: DX135-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-041-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-041-SA7-SB-4.0-5.0

LLI Sample # SW 6406237
LLI Group # 1266450
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 12:36

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3504 SDG#: DX135-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11266001	09/26/2011 18:10	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11266001	09/24/2011 10:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162401A	09/20/2011 19:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-071-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA7-SB-4.0-5.0

LLI Sample # SW 6406238
LLI Group # 1266450
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 14:41

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3505 SDG#: DX135-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-071-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA7-SB-4.0-5.0

LLI Sample # SW 6406238
LLI Group # 1266450
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 14:41

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:09

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X3505 SDG#: DX135-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.103	U	0.103	1.06	1
11031	12378-PeCDD	40321-76-4	0.0663	U	0.0663	5.29	1
11031	123478-HxCDD	39227-28-6	0.0409	U	0.0409	5.29	1
11031	123678-HxCDD	57653-85-7	0.0417	U	0.0417	5.29	1
11031	123789-HxCDD	19408-74-3	0.0392	U	0.0392	5.29	1
11031	1234678-HpCDD	35822-46-9	0.328	JBQ	0.0716	5.29	1
11031	OCDD	3268-87-9	0.707	JB	0.0643	10.6	1
11031	2378-TCDF	51207-31-9	0.0797	U	0.0797	1.06	1
11031	12378-PeCDF	57117-41-6	0.0569	JQ	0.0386	5.29	1
11031	23478-PeCDF	57117-31-4	0.0740	JBQ	0.0359	5.29	1
11031	123478-HxCDF	70648-26-9	0.0418	U	0.0418	5.29	1
11031	123678-HxCDF	57117-44-9	0.0378	U	0.0378	5.29	1
11031	123789-HxCDF	72918-21-9	0.0340	U	0.0340	5.29	1
11031	234678-HxCDF	60851-34-5	0.0299	U	0.0299	5.29	1
11031	1234678-HpCDF	67562-39-4	0.166	JBQ	0.0374	5.29	1
11031	1234789-HpCDF	55673-89-7	0.0470	U	0.0470	5.29	1
11031	OCDF	39001-02-0	0.215	JBQ	0.0934	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	57	25 - 164
13C12-12378-PeCDD	60	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	61	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	46	26 - 152
13C12-123678-HxCDF	53	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	65	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	58	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-071-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA7-SB-4.0-5.0

LLI Sample # SW 6406238
LLI Group # 1266450
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 14:41

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3505 SDG#: DX135-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-071-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-071-SA7-SB-4.0-5.0

LLI Sample # SW 6406238
LLI Group # 1266450
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 14:41

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3505 SDG#: DX135-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11266001	09/26/2011 19:07	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11266001	09/24/2011 10:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162401B	09/20/2011 19:37	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA7-SS-091411 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SS-091411

LLI Sample # WW 6406239
LLI Group # 1266450
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 14:00

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3506 SDG#: DX135-06EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.703	U	0.703	1.90	1
10915	12378-PeCDD	40321-76-4	0.472	U	0.472	9.48	1
10915	123478-HxCDD	39227-28-6	0.359	U	0.359	9.48	1
10915	123678-HxCDD	57653-85-7	0.380	U	0.380	9.48	1
10915	123789-HxCDD	19408-74-3	0.386	U	0.386	9.48	1
10915	1234678-HpCDD	35822-46-9	2.55	JBQ	0.611	9.48	1
10915	OCDD	3268-87-9	3.78	JBQ	0.427	19.0	1
10915	2378-TCDF	51207-31-9	0.460	U	0.460	1.90	1
10915	12378-PeCDF	57117-41-6	0.220	U	0.220	9.48	1
10915	23478-PeCDF	57117-31-4	0.520	JBQ	0.200	9.48	1
10915	123478-HxCDF	70648-26-9	0.202	U	0.202	9.48	1
10915	123678-HxCDF	57117-44-9	0.316	JBQ	0.207	9.48	1
10915	123789-HxCDF	72918-21-9	0.391	JBQ	0.229	9.48	1
10915	234678-HxCDF	60851-34-5	0.402	JBQ	0.198	9.48	1
10915	1234678-HpCDF	67562-39-4	1.40	JBQ	0.335	9.48	1
10915	1234789-HpCDF	55673-89-7	0.429	JQ	0.393	9.48	1
10915	OCDF	39001-02-0	1.14	JBQ	0.594	19.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	63	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	67	28 - 130
13C12-1234678-HpCDD	65	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	59	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	61	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA7-SS-091411 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SS-091411

LLI Sample # WW 6406239
LLI Group # 1266450
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 14:00

Submitted: 09/15/2011 09:20
Reported: 09/30/2011 08:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3506 SDG#: DX135-06EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11263003	09/23/2011 10:42	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11263003	09/21/2011 09:30	Deborah M Zimmerman	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266450
Reported: 09/30/11 at 08:09 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11263162401A	Sample number(s): 6406234,6406237								
Moisture Content by 160.3					100		80-120		
Batch number: 11263162401B	Sample number(s): 6406238								
Moisture Content by 160.3					100		80-120		
Batch number: 11272162401A	Sample number(s): 6406235-6406236								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11263003	Sample number(s): 6406239								
2378-TCDD	0.812 U	0.812	2.00	pg/l	106		67-158		
12378-PeCDD	0.674 U	0.674	10.0	pg/l	106		70-142		
123478-HxCDD	0.477 J	0.429	10.0	pg/l	102		70-164		
123678-HxCDD	0.422 U	0.422	10.0	pg/l	100		76-134		
123789-HxCDD	0.411 J	0.409	10.0	pg/l	102		64-162		
1234678-HpCDD	2.91 J	0.671	10.0	pg/l	102		70-140		
OCDD	4.20 J	0.496	20.0	pg/l	104		78-144		
2378-TCDF	0.635 U	0.635	2.00	pg/l	94		75-158		
12378-PeCDF	0.344 U	0.344	10.0	pg/l	103		80-134		
23478-PeCDF	0.841 J	0.309	10.0	pg/l	101		68-160		
123478-HxCDF	0.455 J	0.277	10.0	pg/l	99		72-134		
123678-HxCDF	0.421 J	0.271	10.0	pg/l	97		84-130		
123789-HxCDF	0.390 J	0.307	10.0	pg/l	98		78-130		
234678-HxCDF	0.600 J	0.261	10.0	pg/l	99		70-156		
1234678-HpCDF	1.08 J	0.343	10.0	pg/l	99		82-122		
1234789-HpCDF	0.387 U	0.387	10.0	pg/l	101		78-138		
OCDF	2.03 J	0.810	20.0	pg/l	104		63-170		
Batch number: 11266001	Sample number(s): 6406234-6406238								
2378-TCDD	0.0940 U	0.0940	1.00	ng/kg	91		67-158		
12378-PeCDD	0.0486 U	0.0486	5.00	ng/kg	91		70-142		
123478-HxCDD	0.0342 U	0.0342	5.00	ng/kg	91		70-164		
123678-HxCDD	0.0357 U	0.0357	5.00	ng/kg	84		76-134		
123789-HxCDD	0.0728 J	0.0330	5.00	ng/kg	88		64-162		
1234678-HpCDD	0.256 J	0.0526	5.00	ng/kg	89		70-140		
OCDD	0.558 J	0.0442	10.0	ng/kg	86		78-144		
2378-TCDF	0.0755 U	0.0755	1.00	ng/kg	88		75-158		
2378-TCDF-Conf	0.0373 U	0.0373	1.00	ng/kg	88		75-158		
12378-PeCDF	0.0300 U	0.0300	5.00	ng/kg	93		80-134		
23478-PeCDF	0.0299 J	0.0290	5.00	ng/kg	87		68-160		
123478-HxCDF	0.0581 J	0.0389	5.00	ng/kg	87		72-134		
123678-HxCDF	0.0428 J	0.0345	5.00	ng/kg	88		84-130		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266450
Reported: 09/30/11 at 08:09 AM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
123789-HxCDF	0.0317 J	0.0305	5.00	ng/kg	89		78-130		
234678-HxCDF	0.0745 J	0.0239	5.00	ng/kg	89		70-156		
1234678-HpCDF	0.141 J	0.0256	5.00	ng/kg	87		82-122		
1234789-HpCDF	0.0343 U	0.0343	5.00	ng/kg	88		78-138		
OCDF	0.180 J	0.0655	10.0	ng/kg	89		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11263162401A	Sample number(s): 6406234,6406237					BKG: P406205			
Moisture Content by 160.3						5.2	4.9	5	20
Batch number: 11263162401B	Sample number(s): 6406238					BKG: P406206			
Moisture Content by 160.3						5.9	5.8	2	20
Batch number: 11272162401A	Sample number(s): 6406235-6406236					BKG: P404514			
Moisture Content by 160.3						6.2	4.9	24*	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11263003

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6406239	74	63	65	65	66	68
Blank	72	63	59	62	62	65
OPR	77	69	71	72	78	75
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6406239	59	61	61	63	68	70
Blank	60	62	60	60	64	68
OPR	74	77	79	69	79	79
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6406239	67	65	66	76	65	
Blank	66	67	63	75	61	
OPR	79	81	82	78	69	78
Limits:	28-130	23-140	17-157	24-169	24-185	22-152

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266450
Reported: 09/30/11 at 08:09 AM

Surrogate Quality Control

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11266001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6406234	66	63	66	66	68	81
6406235	76	77	38	44	78	90
6406236	77	78	67	72	79	96
6406237	70	76	50	60	76	79
6406238	57	59	46	53	66	68
Blank	62	66	47	54	71	68
OPR	81	80	69	77	86	98
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6406234	69	69	88	60	68	67
6406235	52	76	75	75	74	78
6406236	81	78	74	76	80	82
6406237	74	71	67	77	78	81
6406238	65	62	58	60	65	68
Blank	68	64	60	69	73	73
OPR	92	79	75	81	87	91
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6406234	82	72	100		62	66
6406235	93	80	79	83	74	
6406236	93	82	82	82	77	
6406237	89	82	79	75	74	
6406238	69	71	68	58	61	
Blank	75	76	72	62	69	58
OPR	90	91	88	83	85	83
Limits:	28-130	23-140	17-157	24-169	24-185	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Ap# 12666450 Samp6# 6406234-39

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-024-SA7-SS-0.0-0.5	09.14.11	1100	SOIL	NONE	1-SS Sleeve			X	X																		
SL-024-SA7-SS-0.0-0.5	09.14.11	1100	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X	X	X	X	X					X	X	X	X		
SL-026-SA7-SS-0.0-0.5	09.14.11		SOIL	NONE	1-SS Sleeve			X	X																		
SL-026-SA7-SS-0.0-0.5	09.14.11		SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											
SL-029-SA7-SS-0.0-0.5	09.14.11	0755	SOIL	NONE	1-SS Sleeve			X	X																		
SL-029-SA7-SS-0.0-0.5	09.14.11	0755	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											
SL-032-SA7-SS-0.0-0.5	09.14.11	1510	SOIL	NONE	1-SS Sleeve			X	X																		
SL-032-SA7-SS-0.0-0.5	09.14.11	1510	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-033-SA7-SS-0.0-0.5	09.14.11	1335	SOIL	NONE	1-SS Sleeve			X	X																		
SL-033-SA7-SS-0.0-0.5	09.14.11	1335	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											
SL-036-SA7-SS-0.0-0.5	09.14.11	0840	SOIL	NONE	1-SS Sleeve			X	X																		
SL-036-SA7-SS-0.0-0.5	09.14.11	0840	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											
SL-038-SA7-SS-0.0-0.5	09.14.11	1150	SOIL	NONE	1-SS Sleeve			X	X																		
SL-038-SA7-SS-0.0-0.5	09.14.11	1150	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											
SL-039-SA7-SS-0.0-0.5	09.14.11	0905	SOIL	NONE	1-SS Sleeve			X	X																		
SL-039-SA7-SS-0.0-0.5	09.14.11	0905	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	X						X	X	X		ONLY ONE JAR
SL-076-SA7-SS-0.0-0.5	09.14.11	0820	SOIL	NONE	1-SS Sleeve			X	X																		
SL-076-SA7-SS-0.0-0.5	09.14.11	0820	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X						X	X	X		
SL-077-SA7-SS-0.0-0.5	09.14.11	0940	SOIL	NONE	1-SS Sleeve			X	X																		
SL-077-SA7-SS-0.0-0.5	09.14.11	0940	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X						X	X	X		
SL-078-SA7-SS-0.0-0.5	09.14.11	1000	SOIL	NONE	1-SS Sleeve			X	X																		
SL-078-SA7-SS-0.0-0.5	09.14.11	1000	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X	X	X	X	X						X	X	X		
SL-099-SA7-SS-0.0-0.5	09.14.11	1040	SOIL	NONE	1-SS Sleeve			X	X																		
SL-099-SA7-SS-0.0-0.5	09.14.11	1040	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X						X	X	X		
SL-144-SA7-SS-0.0-0.5	09.14.11	1435	SOIL	NONE	1-SS Sleeve			X	X																		
SL-144-SA7-SS-0.0-0.5	09.14.11	1435	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											
SL-145-SA7-SS-0.0-0.5	09.14.11	1355	SOIL	NONE	1-SS Sleeve			X	X																		
SL-145-SA7-SS-0.0-0.5	09.14.11	1355	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											
SL-183-SA7-SS-0.0-0.5	09.14.11	1130	SOIL	NONE	1-SS Sleeve			X	X																		
SL-183-SA7-SS-0.0-0.5	09.14.11	1130	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	
	09/14/2011 / 1600		Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature) Brandon Bentley	Date/Time 915-11 920	Airbill No.(s) 8754 3341 6530,6562,6540,6551	

acct# 13013 Cap# 1266450 Sample# 6406234-39

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-339-SA5B-SB-9.5	09.14.11	1010	SOIL	NONE	2- Encores										X											
SL-339-SA5B-SB-9.0-10.0	09.14.11	1009	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-340-SA5B-SB-9.5	09.14.11	0839	SOIL	NONE	2- Encores										X											ONLY 3 JARS
SL-340-SA5B-SB-9.0-10.0	09.14.11	0838	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-041-SA7-SB-4.5	09.14.11	1237	SOIL	NONE	2- Encores										X											ONLY 3 JARS
SL-041-SA7-SB-4.0-5.0	09.14.11	1236	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X		
SL-071-SA7-SB-4.5	09.14.11	1442	SOIL	NONE	2- Encores										X											ONLY 3 JARS
SL-071-SA7-SB-4.0-5.0	09.14.11	1441	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X		
TB-091411	09.14.11	0800	WATER	NONE	2-10mL vials										X											

Relinquished by: (Signature) | **Date/Time** 09/14/2011 / 1600 | **Received for Laboratory by: (Signature)**

Received by: (Signature) | **Date/Time** 9-15-11 920 | **Airbill No.(s)** 8754 3341 6530,6562,6540,6551

Laboratory: Lancaster Laboratories, Inc.

acct# 13013 Qp# 1266450 Sample# 6406234-39

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									VOCs	SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	
EB-SA7-SS-091411	09.14.11	1400	WATER	NONE	12-1 liter ambers			X	X	X						X			X	X		X				
EB-SA7-SS-091411	09.14.11	1400	WATER	NONE	1-500 mL poly		X				X	X	X													
EB-SA7-SS-091411	09.14.11	1400	WATER	HNO3	1-500 mL poly	X																				
EB-SA7-SS-091411	09.14.11	1400	WATER	NaOH	1-500 mL glass																X					
EB-SA7-SS-091411	09.14.11	1400	WATER	NONE	1-250 mL glass													X								
EB-SA7-SS-091411	09.14.11	1400	WATER	HCl	2-40 mL vials																			X		
EB-SA7-SS-091411	09.14.11	1400	WATER	NONE	4-40 mL vials												X						X			

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	
	09/14/2011 / 1600		Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*) Brandy Burden	Date/Time 9-15-11 920	Airbill No.(s)	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 12, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/16/2011
Group Number: 1266816
SDG: DE244
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-010-SA7-SS-0.0-0.5 Soil	6408584
SL-014-SA7-SS-0.0-0.5 Soil	6408585
SL-018-SA7-SS-0.0-0.5 Soil	6408586
SL-021-SA7-SS-0.0-0.5 Soil	6408587
SL-091-SA7-SS-0.0-0.5 Soil	6408588
SL-092-SA7-SS-0.0-0.5 Soil	6408589
SL-096-SA7-SS-0.0-0.5 Soil	6408590
SL-097-SA7-SS-0.0-0.5 Soil	6408591
SL-037-SA7-SB-4.0-5.0 Soil	6408592
SL-070-SA7-SB-3.0-4.0 Soil	6408593
SL-081-SA7-SB-4.0-5.0 Soil	6408594
SL-081-SA7-SB-9.0-10.0 Soil	6408595
SL-183-SA7-SB-4.0-5.0 Soil	6408596
SL-183-SA7-SB-9.0-10.0 Soil	6408597
TB-091511 Water	6408598
EB-SA7-SB-091511 Water	6408599

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-010-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA7-SS-0.0-0.5

LLI Sample # SW 6408584
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 10:10

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4401 SDG#: DE244-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	29	J	17	170		1
04688	Aniline	62-53-3	170	U	170	500		1
04688	Anthracene	120-12-7	58	J	17	170		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(a)anthracene	56-55-3	390		17	170		1
04688	Benzo(a)pyrene	50-32-8	590		17	170		1
04688	Benzo(b)fluoranthene	205-99-2	920		17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	490		17	170		1
04688	Benzo(k)fluoranthene	207-08-9	410		17	170		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	110	J	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Chrysene	218-01-9	660		17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	100	J	17	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Fluoranthene	206-44-0	1,700		17	170		1
04688	Fluorene	86-73-7	19	J	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	430		17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-010-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA7-SS-0.0-0.5

LLI Sample # SW 6408584
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 10:10

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4401 SDG#: DE244-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenanthrene	85-01-8	740		17	170		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	1,300		17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthylene	208-96-8	4.0		0.34	1.7		1
10138	Butylbenzylphthalate	85-68-7	7.3	J	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	24		6.0	18		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	430		60	180		10
10138	1-Methylnaphthalene	90-12-0	2.3		0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	1.4	J	0.67	1.7		1
10138	Naphthalene	91-20-3	1.2	J	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	82		6.2	17		10
10401	Dicamba	1918-00-9	0.53	U	0.53	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1
10401	MCPA	94-74-6	76	U	76	250		1
10401	MCPP (Mecoprop)	93-65-2	5,300	U	5,300	5,300		10
10401	2,4,5-T	93-76-5	0.28	U	0.28	0.28		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1
	Reporting limits were raised due to interference from the sample matrix. The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-010-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA7-SS-0.0-0.5

LLI Sample # SW 6408584
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 10:10

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4401 SDG#: DE244-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.41	U	0.41	0.41		1
01363	p,p-DDE	72-55-9	0.30	U	0.30	0.34		1
01363	p,p-DDT	50-29-3	1.6	U	1.6	1.6		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.077	U	0.077	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.20	U	0.20	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.49	U	0.49	0.49		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.11	U	0.11	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.40	U	0.40	0.40		1
01363	Toxaphene	8001-35-2	27	U	27	27		1

Maintenance and a new calibration was performed prior to the analysis of the samples. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site.

The TCX surrogate recovery for the associated method blank is outside the client specified limits of 50-130 at 48%. Since the recovery is within our in-house statistical limits of 28-128, the data is reported.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	33		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	3.6		0.33	1.7		1
10225	PCB-1260	11096-82-5	5.8		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-010-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA7-SS-0.0-0.5

LLI Sample # SW 6408584
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 10:10

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4401 SDG#: DE244-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	360	J	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.81	U	0.81	2.4		2
10199	EFH (C15-C20)	n.a.	0.81	U	0.81	2.4		2
10199	EFH (C21-C30)	n.a.	8.0		0.81	2.4		2
10199	EFH (C30 - C40)	n.a.	18		0.81	2.4		2
10199	EFH (C8-C11)	n.a.	0.81	U	0.81	2.4		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	9,850		5.86	19.4		1
07914	Boron	7440-42-8	6.75		0.349	4.84		1
01650	Calcium	7440-70-2	2,260		2.42	19.4		1
01654	Iron	7439-89-6	14,500		2.53	19.4		1
01656	Lithium	7439-93-2	21.6		0.60	1.9		1
01657	Magnesium	7439-95-4	3,420		0.426	9.69		1
06958	Manganese	7439-96-5	206		0.0349	0.484		1
10145	Phosphorus	7723-14-0	352		0.339	9.69		1
01662	Potassium	7440-09-7	3,070		10.9	48.4		1
01667	Sodium	7440-23-5	64.6	J	5.76	96.9		1
07968	Strontium	7440-24-6	7.77		0.0242	0.484		1
06969	Tin	7440-31-5	2.71	J	0.310	9.69		1
06970	Titanium	7440-32-6	1,080		0.0695	0.978		1
10146	Zirconium	7440-67-7	2.11	J	0.446	4.84		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.108	J	0.0724	0.196		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.13		0.0783	0.391		2
06126	Barium	7440-39-3	68.4		0.104	0.391		2

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Sample Description: **SL-010-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA7-SS-0.0-0.5

LLI Sample # SW 6408584
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 10:10

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4401 SDG#: DE244-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.453		0.0157	0.0978		2
06128	Cadmium	7440-43-9	0.167		0.0430	0.0978		2
06131	Chromium	7440-47-3	12.2		0.117	0.391		2
06132	Cobalt	7440-48-4	4.00		0.0196	0.0978		2
06133	Copper	7440-50-8	6.99		0.0783	0.391		2
06135	Lead	7439-92-1	12.9		0.010	0.196		2
06138	Molybdenum	7439-98-7	0.369		0.0489	0.0978		2
06139	Nickel	7440-02-0	8.48		0.0978	0.391		2
06141	Selenium	7782-49-2	0.0798	J	0.0567	0.391		2
06142	Silver	7440-22-4	0.0310	J	0.0139	0.0978		2
06145	Thallium	7440-28-0	0.245		0.0293	0.0978		2
06148	Vanadium	7440-62-2	25.3		0.0215	0.0978		2
06149	Zinc	7440-66-6	117		0.548	2.93		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0626	J	0.0069	0.0986		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.71	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.39		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.76		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-010-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA7-SS-0.0-0.5

LLI Sample # SW 6408584
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 10:10

Submitted: 09/16/2011 09:10
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4401 SDG#: DE244-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11264SLB026	09/27/2011 01:56	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11264SLC026	09/28/2011 06:41	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11264SLC026	09/28/2011 23:30	Gregory J Drahovsky	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11264SLC026	09/22/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11264SLB026	09/22/2011 08:40	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112650015A	09/23/2011 23:52	Anita M Dale	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112650015A	09/26/2011 09:45	Anita M Dale	10
01363	12a Pesticides by 8081A	SW-846 8081A	1	112640029A	09/26/2011 19:22	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112640017A	09/23/2011 01:53	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112640029A	09/22/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112640017A	09/22/2011 03:00	David V Hershey Jr	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112650015A	09/22/2011 21:30	Elaine F Stoltzfus	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112600025A	09/19/2011 18:50	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620010A	09/20/2011 18:53	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112630012A	09/21/2011 08:06	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112650006A	09/23/2011 23:23	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	112650006A	09/22/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112630012A	09/20/2011 15:00	Wanda F Oswald	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112600025A	09/19/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620010A	09/19/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112635708005	09/25/2011 10:27	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112635708005	09/25/2011 14:10	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112635708005	09/25/2011 10:27	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112635708005	09/25/2011 10:27	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112635708005	09/25/2011 10:27	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112635708005	09/25/2011 14:10	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112635708005	09/25/2011 10:27	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112635708005	09/25/2011 10:27	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112635708005	09/25/2011 10:27	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112635708005	09/25/2011 10:27	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112635708005	09/25/2011 10:27	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112635708005	09/25/2011 10:27	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112695708002	09/27/2011 10:33	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112635708005	09/25/2011 10:27	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112631026004A	09/22/2011 08:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026004A	09/22/2011 08:59	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026004D	09/22/2011 08:59	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026004A	09/22/2011 08:59	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-010-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA7-SS-0.0-0.5

LLI Sample # SW 6408584
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 10:10

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4401 SDG#: DE244-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112631026004A	09/22/2011 08:59	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026004A	09/22/2011 08:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026004A	09/22/2011 08:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026004A	09/22/2011 08:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026004A	09/22/2011 08:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026004C	09/22/2011 08:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026004A	09/22/2011 08:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026004B	09/22/2011 08:59	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026004A	09/22/2011 08:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026004A	09/22/2011 08:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026004A	09/22/2011 08:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026004A	09/22/2011 08:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112635711005	09/21/2011 18:51	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708005	09/21/2011 10:50	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112695708002	09/26/2011 21:36	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026004	09/21/2011 11:06	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711005	09/21/2011 11:54	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11265495201A	09/25/2011 00:44	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11262262201A	09/20/2011 14:30	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11269243201A	09/28/2011 13:25	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11265102201A	09/22/2011 18:20	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11265495201A	09/22/2011 22:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11262262201A	09/19/2011 18:15	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11265102201A	09/22/2011 15:25	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11267039401A	09/24/2011 07:05	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11269243201A	09/26/2011 08:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162402A	09/20/2011 20:35	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA7-SS-0.0-0.5

LLI Sample # SW 6408585
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 09:40

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4402 SDG#: DE244-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	180		17	170		1
04688	Acenaphthylene	208-96-8	26	J	17	170		1
04688	Aniline	62-53-3	170	U	170	510		1
04688	Anthracene	120-12-7	600		17	170		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(a)anthracene	56-55-3	1,600		17	170		1
04688	Benzo(a)pyrene	50-32-8	1,700		17	170		1
04688	Benzo(b)fluoranthene	205-99-2	2,500		17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	1,200		17	170		1
04688	Benzo(k)fluoranthene	207-08-9	1,000		17	170		1
04688	Benzoic acid	65-85-0	190	J	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	19	J	17	170		1
04688	Carbazole	86-74-8	440		17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Chrysene	218-01-9	2,000		17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	410		17	170		1
04688	Dibenzofuran	132-64-9	81	J	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	3,300		17	340		1
04688	Fluoranthene	206-44-0	5,100		85	850		5
04688	Fluorene	86-73-7	140	J	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,100		17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1

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Sample Description: SL-014-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA7-SS-0.0-0.5

LLI Sample # SW 6408585
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 09:40

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4402 SDG#: DE244-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	30	J	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenanthrene	85-01-8	3,500		17	170		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	4,300		85	850		5
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Di-n-butylphthalate	84-74-2	240		6.1	18		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	1-Methylnaphthalene	90-12-0	8.8		0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	9.7		0.68	1.7		1
10138	Naphthalene	91-20-3	17		0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	7.4	U	7.4	7.4		1
10401	Dicamba	1918-00-9	0.86	J	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	240	U	240	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.24	U	0.24	0.24		1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.17		1

Reporting limits were raised due to interference from the sample matrix.
The recovery for Dinoseb is outside the QC limits. However, this compound does

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Sample Description: **SL-014-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA7-SS-0.0-0.5

LLI Sample # SW 6408585
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 09:40

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4402 SDG#: DE244-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.33	U	0.33	0.84		5
01363	Alpha BHC	319-84-6	0.17	U	0.17	0.84		5
01363	Beta BHC	319-85-7	0.30	U	0.30	0.84		5
01363	Gamma BHC - Lindane	58-89-9	0.17	U	0.17	0.84		5
01363	Chlordane	57-74-9	5.3	J	4.1	17		5
01363	p,p-DDD	72-54-8	0.33	U	0.33	1.7		5
01363	p,p-DDE	72-55-9	3.4	U	3.4	3.4		5
01363	p,p-DDT	50-29-3	49	U	49	49		20
01363	Delta BHC	319-86-8	0.18	U	0.18	0.84		5
01363	Dieldrin	60-57-1	5.5	U	5.5	5.5		5
01363	Endosulfan I	959-98-8	0.22	U	0.22	0.84		5
01363	Endosulfan II	33213-65-9	1.8	U	1.8	1.8		5
01363	Endosulfan Sulfate	1031-07-8	0.40	U	0.40	1.7		5
01363	Endrin	72-20-8	3.4	U	3.4	3.4		5
01363	Endrin Aldehyde	7421-93-4	20	U	20	20		20
01363	Endrin Ketone	53494-70-5	0.33	U	0.33	1.7		5
01363	Heptachlor	76-44-8	0.30	U	0.30	0.84		5
01363	Heptachlor Epoxide	1024-57-3	0.72	U	0.72	0.84		5
01363	Methoxychlor	72-43-5	6.9	U	6.9	34		20
01363	Mirex	2385-85-5	2.7	U	2.7	2.7		5
01363	Toxaphene	8001-35-2	460	U	460	460		20
	Maintenance and a new calibration was performed prior to the analysis of the samples. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site.							
	The TCX surrogate recovery for the associated method blank is outside the client specified limits of 50-130 at 48%. Since the recovery is within our in-house statistical limits of 28-128, the data is reported.							
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	100	U	100	330		100
10225	Aroclor 5442	12642-23-8	100	U	100	330		100
10225	Aroclor 5460	11126-42-4	100	U	100	330		100
10225	PCB-1016	12674-11-2	33	U	33	170		100
10225	PCB-1221	11104-28-2	33	U	33	170		100
10225	PCB-1232	11141-16-5	33	U	33	170		100
10225	PCB-1242	53469-21-9	33	U	33	170		100
10225	PCB-1248	12672-29-6	33	U	33	170		100
10225	PCB-1254	11097-69-1	150	J	33	170		100
10225	PCB-1260	11096-82-5	1,300		40	170		100
10225	PCB-1262	37324-23-5	33	U	33	170		100
10225	PCB-1268	11100-14-4	33	U	33	170		100

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Sample Description: SL-014-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA7-SS-0.0-0.5

LLI Sample # SW 6408585
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 09:40

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4402 SDG#: DE244-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.81	U	0.81	2.4		2
10199	EFH (C15-C20)	n.a.	1.2	J	0.81	2.4		2
10199	EFH (C21-C30)	n.a.	17		0.81	2.4		2
10199	EFH (C30 - C40)	n.a.	38		0.81	2.4		2
10199	EFH (C8-C11)	n.a.	0.81	U	0.81	2.4		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,400		5.90	19.5		1
07914	Boron	7440-42-8	7.22		0.351	4.88		1
01650	Calcium	7440-70-2	2,440		2.44	19.5		1
01654	Iron	7439-89-6	16,600		2.55	19.5		1
01656	Lithium	7439-93-2	22.3		0.60	2.0		1
01657	Magnesium	7439-95-4	3,500		0.429	9.75		1
06958	Manganese	7439-96-5	232		0.0351	0.488		1
10145	Phosphorus	7723-14-0	376		0.341	9.75		1
01662	Potassium	7440-09-7	3,100		11.0	48.8		1
01667	Sodium	7440-23-5	91.5	J	5.80	97.5		1
07968	Strontium	7440-24-6	16.3		0.0244	0.488		1
06969	Tin	7440-31-5	2.86	J	0.312	9.75		1
06970	Titanium	7440-32-6	1,090		0.0699	0.985		1
10146	Zirconium	7440-67-7	3.21	J	0.449	4.88		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.123	J	0.0751	0.203		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.31		0.0811	0.406		2
06126	Barium	7440-39-3	85.5		0.108	0.406		2

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Sample Description: **SL-014-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA7-SS-0.0-0.5

LLI Sample # SW 6408585
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 09:40

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4402 SDG#: DE244-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.434		0.0162	0.101		2
06128	Cadmium	7440-43-9	0.813		0.0446	0.101		2
06131	Chromium	7440-47-3	22.0		0.122	0.406		2
06132	Cobalt	7440-48-4	4.96		0.0203	0.101		2
06133	Copper	7440-50-8	11.8		0.0811	0.406		2
06135	Lead	7439-92-1	52.4		0.0103	0.203		2
06138	Molybdenum	7439-98-7	0.763		0.0507	0.101		2
06139	Nickel	7440-02-0	11.5		0.101	0.406		2
06141	Selenium	7782-49-2	0.0823	J	0.0588	0.406		2
06142	Silver	7440-22-4	0.0755	J	0.0144	0.101		2
06145	Thallium	7440-28-0	0.241		0.0304	0.101		2
06148	Vanadium	7440-62-2	27.2		0.0223	0.101		2
06149	Zinc	7440-66-6	828		2.84	15.2		10
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0165	J	0.0070	0.0998		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80	U	0.80	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	2.7		0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.49		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.81		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-014-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA7-SS-0.0-0.5

LLI Sample # SW 6408585
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 09:40

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CDM Federal Programs Corp.
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Suite 210
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E4402 SDG#: DE244-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11264SLB026	09/27/2011 03:08	Holly Berry	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11264SLB026	09/27/2011 08:17	Holly Berry	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11264SLC026	09/28/2011 12:06	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11264SLC026	09/22/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11264SLB026	09/22/2011 08:40	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112650015A	09/24/2011 01:15	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112640029A	09/26/2011 18:54	Melissa McDermott	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	112640029A	09/26/2011 19:08	Melissa McDermott	20
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112640017A	09/23/2011 02:49	Jamie L Brillhart	100
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112640029A	09/22/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112640017A	09/22/2011 03:00	David V Hershey Jr	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112650015A	09/22/2011 21:30	Elaine F Stoltzfus	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112600025A	09/19/2011 19:34	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620010A	09/20/2011 19:06	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112630012A	09/21/2011 09:12	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112650006A	09/24/2011 00:35	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	112650006A	09/22/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112630012A	09/20/2011 15:00	Wanda F Oswald	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112600025A	09/19/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620010A	09/19/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112635708005	09/25/2011 10:50	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112635708005	09/25/2011 14:33	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112635708005	09/25/2011 10:50	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112635708005	09/25/2011 10:50	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112635708005	09/25/2011 10:50	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112635708005	09/25/2011 14:33	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112635708005	09/25/2011 10:50	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112635708005	09/25/2011 10:50	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112635708005	09/25/2011 10:50	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112635708005	09/25/2011 10:50	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112635708005	09/25/2011 10:50	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112635708005	09/25/2011 10:50	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112695708002	09/27/2011 10:56	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112635708005	09/25/2011 10:50	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112631026004A	09/22/2011 09:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026004A	09/22/2011 09:02	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026004D	09/22/2011 09:02	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026004A	09/22/2011 09:02	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-014-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA7-SS-0.0-0.5

LLI Sample # SW 6408585
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 09:40

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4402 SDG#: DE244-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112631026004A	09/22/2011 09:02	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026004A	09/22/2011 09:02	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026004A	09/22/2011 09:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026004A	09/22/2011 09:02	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026004A	09/22/2011 09:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026004C	09/22/2011 09:02	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026004A	09/22/2011 09:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026004B	09/22/2011 09:02	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026004A	09/22/2011 09:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026004A	09/22/2011 09:02	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026004A	09/22/2011 09:02	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026004A	09/22/2011 09:56	Choon Y Tian	10
00159	Mercury	SW-846 7471A	1	112635711005	09/21/2011 18:52	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708005	09/21/2011 10:50	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112695708002	09/26/2011 21:36	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026004	09/21/2011 11:06	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711005	09/21/2011 11:54	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11265495201A	09/25/2011 01:47	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11262262201A	09/20/2011 15:39	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11269243201A	09/28/2011 14:37	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11265102201A	09/22/2011 18:24	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11265495201A	09/22/2011 22:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11262262201A	09/19/2011 18:15	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11265102201A	09/22/2011 15:25	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11267039401A	09/24/2011 07:05	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11269243201A	09/26/2011 08:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162402A	09/20/2011 20:35	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA7-SS-0.0-0.5

LLI Sample # SW 6408586
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 08:30

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4403 SDG#: DE244-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-018-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA7-SS-0.0-0.5

LLI Sample # SW 6408586
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 08:30

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4403 SDG#: DE244-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	1.4	J	0.67	1.7		1
10138	Acenaphthylene	208-96-8	6.5		0.33	1.7		1
10138	Anthracene	120-12-7	45		0.33	1.7		1
10138	Benzo(a)anthracene	56-55-3	320		0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	240		0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	380		6.7	17		10
10138	Benzo(g,h,i)perylene	191-24-2	61		0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	190		0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	7.0	J	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	31		6.0	18		1
10138	Chrysene	218-01-9	470		3.3	17		10
10138	Dibenz(a,h)anthracene	53-70-3	25		0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	35		6.0	18		1
10138	Fluoranthene	206-44-0	730		6.7	17		10
10138	Fluorene	86-73-7	2.0		0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	71		0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.68	J	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	150		0.67	1.7		1
10138	Pyrene	129-00-0	620		6.7	17		10
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	25	U	25	25		1
10401	Dicamba	1918-00-9	0.49	U	0.49	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.13	U	0.13	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

Reporting limits were raised due to interference from the sample matrix. The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-018-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA7-SS-0.0-0.5

LLI Sample # SW 6408586
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 08:30

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4403 SDG#: DE244-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.097	U	0.097	0.17		1
01363	Chlordane	57-74-9	1.9	J	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.86	U	0.86	0.86		1
01363	p,p-DDE	72-55-9	1.1		0.067	0.34		1
01363	p,p-DDT	50-29-3	3.6		0.33	1.7		5
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.37	U	0.37	0.37		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.38	U	0.38	0.38		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.34	U	0.34	0.34		1
01363	Endrin Aldehyde	7421-93-4	1.2	U	1.2	1.2		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.092	U	0.092	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.15	U	0.15	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	2.2	U	2.2	2.2		1
01363	Toxaphene	8001-35-2	110	U	110	110		5

Maintenance and a new calibration was performed prior to the analysis of the samples. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site.

The TCX surrogate recovery for the associated method blank is outside the client specified limits of 50-130 at 48%. Since the recovery is within our in-house statistical limits of 28-128, the data is reported.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.0	U	5.0	17		5
10225	Aroclor 5442	12642-23-8	5.0	U	5.0	17		5
10225	Aroclor 5460	11126-42-4	8.7	J	5.0	17		5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.6		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.6		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.6		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.6		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.6		5
10225	PCB-1254	11097-69-1	14		1.7	8.6		5
10225	PCB-1260	11096-82-5	8.4	J	2.0	8.6		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.6		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.6		5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-018-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA7-SS-0.0-0.5

LLI Sample # SW 6408586
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 08:30

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4403 SDG#: DE244-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	100	U	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.0	U	2.0	6.1		5
10199	EFH (C15-C20)	n.a.	12		2.0	6.1		5
10199	EFH (C21-C30)	n.a.	150		2.0	6.1		5
10199	EFH (C30 - C40)	n.a.	110		2.0	6.1		5
10199	EFH (C8-C11)	n.a.	2.0	U	2.0	6.1		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,500		6.11	20.2		1
07914	Boron	7440-42-8	6.75		0.363	5.05		1
01650	Calcium	7440-70-2	1,850		2.52	20.2		1
01654	Iron	7439-89-6	14,700		2.63	20.2		1
01656	Lithium	7439-93-2	20.6		0.63	2.0		1
01657	Magnesium	7439-95-4	2,900		0.444	10.1		1
06958	Manganese	7439-96-5	210		0.0363	0.505		1
10145	Phosphorus	7723-14-0	369		0.353	10.1		1
01662	Potassium	7440-09-7	3,540		11.4	50.5		1
01667	Sodium	7440-23-5	71.6	J	6.01	101		1
07968	Strontium	7440-24-6	12.9		0.0252	0.505		1
06969	Tin	7440-31-5	2.63	J	0.323	10.1		1
06970	Titanium	7440-32-6	1,080		0.0689	0.970		1
10146	Zirconium	7440-67-7	2.06	J	0.464	5.05		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0943	J	0.0718	0.194		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	2.76		0.0776	0.388		2
06126	Barium	7440-39-3	79.9		0.103	0.388		2

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Sample Description: **SL-018-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA7-SS-0.0-0.5

LLI Sample # SW 6408586
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 08:30

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4403 SDG#: DE244-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.443		0.0155	0.0970		2
06128	Cadmium	7440-43-9	0.328		0.0427	0.0970		2
06131	Chromium	7440-47-3	10.7		0.116	0.388		2
06132	Cobalt	7440-48-4	3.45		0.0194	0.0970		2
06133	Copper	7440-50-8	9.94		0.0776	0.388		2
06135	Lead	7439-92-1	16.8		0.0099	0.194		2
06138	Molybdenum	7439-98-7	0.458		0.0485	0.0970		2
06139	Nickel	7440-02-0	7.21		0.0970	0.388		2
06141	Selenium	7782-49-2	0.0945	J	0.0563	0.388		2
06142	Silver	7440-22-4	0.0341	J	0.0138	0.0970		2
06145	Thallium	7440-28-0	0.282		0.0291	0.0970		2
06148	Vanadium	7440-62-2	20.0		0.0214	0.0970		2
06149	Zinc	7440-66-6	200		1.36	7.28		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0108	J	0.0070	0.0999		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.53	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.17	U	0.17	0.48		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.09		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.92		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-018-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA7-SS-0.0-0.5

LLI Sample # SW 6408586
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 08:30

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4403 SDG#: DE244-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11264SLB026	09/27/2011 03:32	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11264SLC026	09/28/2011 13:28	Mark A Clark	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11264SLC026	09/29/2011 00:38	Gregory J Drahovsky	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11264SLC026	09/22/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11264SLB026	09/22/2011 08:40	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112650015A	09/24/2011 01:42	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112640029A	09/26/2011 17:40	Melissa McDermott	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	112640029A	09/26/2011 17:54	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112640017A	09/23/2011 03:08	Jamie L Brillhart	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112640029A	09/22/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112640017A	09/22/2011 03:00	David V Hershey Jr	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112650015A	09/22/2011 21:30	Elaine F Stoltzfus	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112600025A	09/19/2011 19:49	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620010A	09/20/2011 19:57	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112630012A	09/21/2011 09:33	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112650006A	09/24/2011 01:22	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112650006A	09/22/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112630012A	09/20/2011 15:00	Wanda F Oswald	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112600025A	09/19/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620010A	09/19/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112635708005	09/25/2011 11:02	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112635708005	09/25/2011 14:44	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112635708005	09/25/2011 11:02	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112635708005	09/25/2011 11:02	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112635708005	09/25/2011 11:02	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112635708005	09/25/2011 14:44	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112635708005	09/25/2011 11:02	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112635708005	09/25/2011 11:02	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112635708005	09/25/2011 11:02	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112635708005	09/25/2011 11:02	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112635708005	09/25/2011 11:02	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112635708005	09/25/2011 11:02	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112695708002	09/27/2011 11:00	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112635708005	09/25/2011 11:02	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112631026004A	09/22/2011 08:40	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026004A	09/22/2011 08:40	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026004D	09/22/2011 08:40	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026004A	09/22/2011 08:40	Choon Y Tian	2

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Sample Description: **SL-018-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA7-SS-0.0-0.5

LLI Sample # SW 6408586
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 08:30

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4403 SDG#: DE244-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112631026004A	09/22/2011 08:40	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026004A	09/22/2011 08:40	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026004A	09/22/2011 08:40	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026004A	09/22/2011 08:40	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026004A	09/22/2011 08:40	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026004C	09/22/2011 08:40	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026004A	09/22/2011 08:40	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026004B	09/22/2011 08:40	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026004A	09/22/2011 08:40	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026004A	09/22/2011 08:40	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026004A	09/22/2011 08:40	Choon Y Tian	2
06149	Zinc	SW-846 6020	2	112631026004A	09/27/2011 18:24	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	112635711005	09/21/2011 18:57	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708005	09/21/2011 10:50	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112695708002	09/26/2011 21:36	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026004	09/21/2011 11:06	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711005	09/21/2011 11:54	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11265495201A	09/25/2011 02:00	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11262262201A	09/20/2011 16:25	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11269243201A	09/28/2011 14:52	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11265102201A	09/22/2011 18:25	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11265495201A	09/22/2011 22:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11262262201A	09/19/2011 18:15	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11265102201A	09/22/2011 15:25	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11267039401A	09/24/2011 07:05	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11269243201A	09/26/2011 08:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162402A	09/20/2011 20:35	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-021-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA7-SS-0.0-0.5

LLI Sample # SW 6408587
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 07:50

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4404 SDG#: DE244-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(a)pyrene	50-32-8	40	J	17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	28	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	23	J	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	27	J	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-021-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA7-SS-0.0-0.5

LLI Sample # SW 6408587
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 07:50

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4404 SDG#: DE244-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	6.7	U	6.7	17		10
10138	Acenaphthylene	208-96-8	3.4	U	3.4	17		10
10138	Anthracene	120-12-7	7.6	J	3.4	17		10
10138	Benzo(a)anthracene	56-55-3	37		6.7	17		10
10138	Benzo(b)fluoranthene	205-99-2	64		6.7	17		10
10138	Benzo(k)fluoranthene	207-08-9	34		6.7	17		10
10138	Chrysene	218-01-9	62		3.4	17		10
10138	Dibenz(a,h)anthracene	53-70-3	6.7	U	6.7	17		10
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	350		61	180		10
10138	Fluoranthene	206-44-0	150		6.7	17		10
10138	Fluorene	86-73-7	6.7	U	6.7	17		10
10138	1-Methylnaphthalene	90-12-0	6.7	U	6.7	17		10
10138	2-Methylnaphthalene	91-57-6	6.7	U	6.7	17		10
10138	Naphthalene	91-20-3	6.7	U	6.7	17		10
10138	N-Nitrosodimethylamine	62-75-9	6.7	U	6.7	17		10
10138	Phenanthrene	85-01-8	73		6.7	17		10
10138	Pyrene	129-00-0	120		6.7	17		10
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	2.6	U	2.6	2.6		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	78	U	78	260		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	0.084	U	0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17		1
	Reporting limits were raised due to interference from the sample matrix.							
	The recovery for Dinoseb is outside the QC limits. However, this compound does							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-021-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA7-SS-0.0-0.5

LLI Sample # SW 6408587
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 07:50

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4404 SDG#: DE244-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.082	J	0.035	0.17		1
01363	Chlordane	57-74-9	6.4		0.82	3.5		1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35		1
01363	p,p-DDE	72-55-9	1.2	U	1.2	1.2		1
01363	p,p-DDT	50-29-3	6.6		0.34	1.7		5
01363	Delta BHC	319-86-8	0.040	J	0.037	0.17		1
01363	Dieldrin	60-57-1	1.6	U	1.6	1.6		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.59	U	0.59	0.59		1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35		1
01363	Endrin	72-20-8	0.43	U	0.43	0.43		1
01363	Endrin Aldehyde	7421-93-4	0.76	U	0.76	0.76		1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.32	U	0.32	0.32		1
01363	Methoxychlor	72-43-5	0.53	U	0.53	1.7		1
01363	Mirex	2385-85-5	0.70	U	0.70	0.70		1
01363	Toxaphene	8001-35-2	25	U	25	25		1
	Maintenance and a new calibration was performed prior to the analysis of the samples. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site.							
	The TCX surrogate recovery for the associated method blank is outside the client specified limits of 50-130 at 48%. Since the recovery is within our in-house statistical limits of 28-128, the data is reported.							
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	5.1	U	5.1	17		5
10225	Aroclor 5442	12642-23-8	5.1	U	5.1	17		5
10225	Aroclor 5460	11126-42-4	11	J	5.1	17		5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.7		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.7		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.7		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.7		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.7		5
10225	PCB-1254	11097-69-1	56		1.7	8.7		5
10225	PCB-1260	11096-82-5	26		2.0	8.7		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.7		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.7		5
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-021-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA7-SS-0.0-0.5

LLI Sample # SW 6408587
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 07:50

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4404 SDG#: DE244-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.0	U	2.0	6.1		5
10199	EFH (C15-C20)	n.a.	2.0	U	2.0	6.1		5
10199	EFH (C21-C30)	n.a.	32		2.0	6.1		5
10199	EFH (C30 - C40)	n.a.	110		2.0	6.1		5
10199	EFH (C8-C11)	n.a.	2.0	U	2.0	6.1		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,300		6.19	20.5		1
07914	Boron	7440-42-8	11.1		0.368	5.12		1
01650	Calcium	7440-70-2	4,450		2.56	20.5		1
01654	Iron	7439-89-6	20,600		2.67	20.5		1
01656	Lithium	7439-93-2	21.7		0.63	2.0		1
01657	Magnesium	7439-95-4	4,760		0.450	10.2		1
06958	Manganese	7439-96-5	394		0.0368	0.512		1
10145	Phosphorus	7723-14-0	370		0.358	10.2		1
01662	Potassium	7440-09-7	3,340		11.6	51.2		1
01667	Sodium	7440-23-5	105		6.09	102		1
07968	Strontium	7440-24-6	32.3		0.0256	0.512		1
06969	Tin	7440-31-5	2.77	J	0.328	10.2		1
06970	Titanium	7440-32-6	1,230		0.0720	1.01		1
10146	Zirconium	7440-67-7	4.76	J	0.471	5.12		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.162	J	0.0743	0.201		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.48		0.0803	0.401		2
06126	Barium	7440-39-3	151		0.106	0.401		2

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Analysis Report

Sample Description: **SL-021-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA7-SS-0.0-0.5

LLI Sample # SW 6408587
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 07:50

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4404 SDG#: DE244-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.639		0.0401	0.251		5
06128	Cadmium	7440-43-9	0.572		0.0442	0.100		2
06131	Chromium	7440-47-3	29.0		0.120	0.401		2
06132	Cobalt	7440-48-4	8.05		0.0201	0.100		2
06133	Copper	7440-50-8	16.0		0.0803	0.401		2
06135	Lead	7439-92-1	31.9		0.0102	0.201		2
06138	Molybdenum	7439-98-7	0.523		0.0502	0.100		2
06139	Nickel	7440-02-0	18.4		0.100	0.401		2
06141	Selenium	7782-49-2	0.115	J	0.0582	0.401		2
06142	Silver	7440-22-4	0.0591	J	0.0142	0.100		2
06145	Thallium	7440-28-0	0.318		0.0301	0.100		2
06148	Vanadium	7440-62-2	53.0		0.0221	0.100		2
06149	Zinc	7440-66-6	149		1.40	7.53		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0121	J	0.0067	0.0954		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.0	J	0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.92	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.02		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-021-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA7-SS-0.0-0.5

LLI Sample # SW 6408587
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 07:50

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4404 SDG#: DE244-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11264SLB026	09/27/2011 03:56	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11264SLC026	09/29/2011 01:11	Gregory J Drahovsky	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11264SLC026	09/22/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11264SLB026	09/22/2011 08:40	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112650015A	09/24/2011 02:10	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112640029A	09/26/2011 19:52	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112640029A	09/26/2011 20:07	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112640017A	09/23/2011 10:39	Jamie L Brillhart	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112640029A	09/22/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112640017A	09/22/2011 03:00	David V Hershey Jr	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112650015A	09/22/2011 21:30	Elaine F Stoltzfus	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112600025A	09/19/2011 20:04	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620010A	09/20/2011 20:10	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112630012A	09/21/2011 11:46	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112650006A	09/24/2011 01:46	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112650006A	09/22/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112630012A	09/20/2011 15:00	Wanda F Oswald	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112600025A	09/19/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620010A	09/19/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112635708005	09/25/2011 11:06	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112635708005	09/25/2011 14:48	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112635708005	09/25/2011 11:06	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112635708005	09/25/2011 11:06	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112635708005	09/25/2011 11:06	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112635708005	09/25/2011 14:48	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112635708005	09/25/2011 11:06	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112635708005	09/25/2011 11:06	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112635708005	09/25/2011 11:06	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112635708005	09/25/2011 11:06	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112635708005	09/25/2011 11:06	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112635708005	09/25/2011 11:06	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112695708002	09/27/2011 11:11	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112635708005	09/25/2011 11:06	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112631026004A	09/22/2011 09:11	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026004A	09/22/2011 09:11	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026004D	09/22/2011 09:11	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026004A	09/22/2011 09:59	Choon Y Tian	5
06128	Cadmium	SW-846 6020	1	112631026004A	09/22/2011 09:11	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-021-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA7-SS-0.0-0.5

LLI Sample # SW 6408587
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 07:50

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4404 SDG#: DE244-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112631026004A	09/22/2011 09:11	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026004A	09/22/2011 09:11	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026004A	09/22/2011 09:11	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026004A	09/22/2011 09:11	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026004C	09/22/2011 09:11	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026004A	09/22/2011 09:11	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026004B	09/22/2011 09:11	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026004A	09/22/2011 09:11	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026004A	09/22/2011 09:11	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026004A	09/22/2011 09:11	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026004A	09/22/2011 09:59	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	112635711005	09/21/2011 18:58	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708005	09/21/2011 10:50	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112695708002	09/26/2011 21:36	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026004	09/21/2011 11:06	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711005	09/21/2011 11:54	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11265495201A	09/25/2011 02:13	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11262262201A	09/20/2011 16:48	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11269243201A	09/28/2011 15:28	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11265102201A	09/22/2011 18:29	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11265495201A	09/22/2011 22:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11262262201A	09/19/2011 18:15	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11265102201A	09/22/2011 15:25	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11267039401A	09/24/2011 07:05	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11269243201A	09/26/2011 08:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162402A	09/20/2011 20:35	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-091-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA7-SS-0.0-0.5

LLI Sample # SW 6408588
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 11:35

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4405 SDG#: DE244-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzo(a)anthracene	56-55-3	44	J	17	170		1
04688	Benzo(a)pyrene	50-32-8	64	J	17	170		1
04688	Benzo(b)fluoranthene	205-99-2	110	J	17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	67	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170		1
04688	4-Chloroaniline	106-47-8	66	U	66	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	99	U	99	330		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170		1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	990		1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	630		17	330		1
04688	Fluoranthene	206-44-0	160	J	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	66	U	66	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	57	J	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	33	U	33	170		1
04688	4-Methylphenol	106-44-5	33	U	33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	33	U	33	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-091-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA7-SS-0.0-0.5

LLI Sample # SW 6408588
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 11:35

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4405 SDG#: DE244-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4-Nitroaniline	100-01-6	66	U	66	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	26	J	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenanthrene	85-01-8	72	J	17	170		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	130	J	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	34	U	34	84		10
10138	Acenaphthylene	208-96-8	17	U	17	84		10
10138	Anthracene	120-12-7	17	U	17	84		10
10138	Benzo(k)fluoranthene	207-08-9	49	J	34	84		10
10138	Chrysene	218-01-9	100		17	84		10
10138	Dibenz(a,h)anthracene	53-70-3	34	U	34	84		10
10138	Fluorene	86-73-7	34	U	34	84		10
10138	1-Methylnaphthalene	90-12-0	34	U	34	84		10
10138	2-Methylnaphthalene	91-57-6	34	U	34	84		10
10138	Naphthalene	91-20-3	34	U	34	84		10
10138	N-Nitrosodimethylamine	62-75-9	34	U	34	84		10
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	7.5	U	7.5	7.5		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1
10401	MCPA	94-74-6	76	U	76	250		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.27	U	0.27	0.27		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1
	Reporting limits were raised due to interference from the sample matrix.							
	The recovery for Dinoseb is outside the QC limits. However, this compound does							

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Sample Description: **SL-091-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA7-SS-0.0-0.5

LLI Sample # SW 6408588
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 11:35

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4405 SDG#: DE244-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	1.1	J	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.15	U	0.15	0.34		1
01363	p,p-DDE	72-55-9	0.60		0.066	0.34		1
01363	p,p-DDT	50-29-3	1.5		0.066	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.066	U	0.066	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.15	J	0.066	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34		1
01363	Endrin	72-20-8	0.066	U	0.066	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.13	U	0.13	0.34		1
01363	Endrin Ketone	53494-70-5	0.066	U	0.066	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.052	U	0.052	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.12	U	0.12	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.6		1
	Maintenance and a new calibration was performed prior to the analysis of the samples. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site.							
	The TCX surrogate recovery for the associated method blank is outside the client specified limits of 50-130 at 48%. Since the recovery is within our in-house statistical limits of 28-128, the data is reported.							
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	26		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	4.4		0.33	1.7		1
10225	PCB-1260	11096-82-5	5.8		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: **SL-091-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA7-SS-0.0-0.5

LLI Sample # SW 6408588
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 11:35

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4405 SDG#: DE244-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	320	J	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.0	U	4.0	12		10
10199	EFH (C15-C20)	n.a.	4.0	U	4.0	12		10
10199	EFH (C21-C30)	n.a.	68		4.0	12		10
10199	EFH (C30 - C40)	n.a.	240		4.0	12		10
10199	EFH (C8-C11)	n.a.	4.0	U	4.0	12		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	9,930		6.09	20.1		1
07914	Boron	7440-42-8	6.49		0.362	5.03		1
01650	Calcium	7440-70-2	2,220		2.52	20.1		1
01654	Iron	7439-89-6	14,900		2.63	20.1		1
01656	Lithium	7439-93-2	21.8		0.62	2.0		1
01657	Magnesium	7439-95-4	3,900		0.443	10.1		1
06958	Manganese	7439-96-5	217		0.0362	0.503		1
10145	Phosphorus	7723-14-0	305		0.352	10.1		1
01662	Potassium	7440-09-7	3,110		11.4	50.3		1
01667	Sodium	7440-23-5	83.4	J	5.99	101		1
07968	Strontium	7440-24-6	8.73		0.0252	0.503		1
06969	Tin	7440-31-5	2.75	J	0.322	10.1		1
06970	Titanium	7440-32-6	1,100		0.0708	0.997		1
10146	Zirconium	7440-67-7	2.12	J	0.463	5.03		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.154	J	0.0745	0.201		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.48		0.0805	0.403		2
06126	Barium	7440-39-3	91.6		0.107	0.403		2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-091-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA7-SS-0.0-0.5

LLI Sample # SW 6408588
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 11:35

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E4405 SDG#: DE244-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.481		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.222		0.0443	0.101		2
06131	Chromium	7440-47-3	14.8		0.121	0.403		2
06132	Cobalt	7440-48-4	5.85		0.0201	0.101		2
06133	Copper	7440-50-8	7.95		0.0805	0.403		2
06135	Lead	7439-92-1	31.3		0.0103	0.201		2
06138	Molybdenum	7439-98-7	0.820		0.0503	0.101		2
06139	Nickel	7440-02-0	10.3		0.101	0.403		2
06141	Selenium	7782-49-2	0.0916	J	0.0584	0.403		2
06142	Silver	7440-22-4	0.0926	J	0.0143	0.101		2
06145	Thallium	7440-28-0	0.286		0.0302	0.101		2
06148	Vanadium	7440-62-2	30.1		0.0221	0.101		2
06149	Zinc	7440-66-6	170		0.564	3.02		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0070	U	0.0070	0.0989		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.10		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.66		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-091-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA7-SS-0.0-0.5

LLI Sample # SW 6408588
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 11:35

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E4405 SDG#: DE244-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11264SLB026	09/27/2011 04:19	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11264SLC026	09/29/2011 01:45	Gregory J Drahovsky	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11264SLC026	09/22/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11264SLB026	09/22/2011 08:40	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112650015A	09/24/2011 02:37	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112640029A	09/26/2011 21:36	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112640017A	09/23/2011 03:45	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112640029A	09/22/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112640017A	09/22/2011 03:00	David V Hershey Jr	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112650015A	09/22/2011 21:30	Elaine F Stoltzfus	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112600025A	09/19/2011 20:19	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620010A	09/20/2011 20:23	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112630012A	09/21/2011 12:08	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112650006A	09/24/2011 02:58	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112650006A	09/22/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112630012A	09/20/2011 15:00	Wanda F Oswald	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112600025A	09/19/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620010A	09/19/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112635708005	09/25/2011 11:10	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112635708005	09/25/2011 14:52	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112635708005	09/25/2011 11:10	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112635708005	09/25/2011 11:10	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112635708005	09/25/2011 11:10	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112635708005	09/25/2011 14:52	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112635708005	09/25/2011 11:10	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112635708005	09/25/2011 11:10	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112635708005	09/25/2011 11:10	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112635708005	09/25/2011 11:10	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112635708005	09/25/2011 11:10	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112635708005	09/25/2011 11:10	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112695708002	09/27/2011 11:14	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112635708005	09/25/2011 11:10	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112631026004A	09/22/2011 09:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026004A	09/22/2011 09:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026004D	09/22/2011 09:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026004A	09/22/2011 09:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112631026004A	09/22/2011 09:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026004A	09/22/2011 09:15	Choon Y Tian	2

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Sample Description: **SL-091-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA7-SS-0.0-0.5

LLI Sample # SW 6408588
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 11:35

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4405 SDG#: DE244-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	112631026004A	09/22/2011 09:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026004A	09/22/2011 09:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026004A	09/22/2011 09:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026004C	09/22/2011 09:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026004A	09/22/2011 09:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026004B	09/22/2011 09:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026004A	09/22/2011 09:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026004A	09/22/2011 09:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026004A	09/22/2011 09:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026004A	09/22/2011 09:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112635711005	09/21/2011 18:59	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708005	09/21/2011 10:50	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112695708002	09/26/2011 21:36	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026004	09/21/2011 11:06	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711005	09/21/2011 11:54	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11265495201A	09/25/2011 02:25	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11262262201A	09/20/2011 17:11	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11269243201A	09/28/2011 15:35	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11265102201A	09/22/2011 18:30	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11265495201A	09/22/2011 22:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11262262201A	09/19/2011 18:15	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11265102201A	09/22/2011 15:25	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11267039401A	09/24/2011 07:05	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11269243201A	09/26/2011 08:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162402A	09/20/2011 20:35	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-092-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA7-SS-0.0-0.5

LLI Sample # SW 6408589
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 10:45

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4406 SDG#: DE244-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzo(a)anthracene	56-55-3	79	J	17	170		1
04688	Benzo(a)pyrene	50-32-8	130	J	17	170		1
04688	Benzo(b)fluoranthene	205-99-2	230		17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	130	J	17	170		1
04688	Benzo(k)fluoranthene	207-08-9	73	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	19	J	17	170		1
04688	Carbazole	86-74-8	22	J	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170		1
04688	4-Chloroaniline	106-47-8	66	U	66	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170		1
04688	Chrysene	218-01-9	140	J	17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	30	J	17	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	330		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170		1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	840		17	330		1
04688	Fluoranthene	206-44-0	310		17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	66	U	66	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	110	J	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	33	U	33	170		1
04688	4-Methylphenol	106-44-5	33	U	33	170		1

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Sample Description: **SL-092-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA7-SS-0.0-0.5

LLI Sample # SW 6408589
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 10:45

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4406 SDG#: DE244-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	33	U	33	170		1
04688	4-Nitroaniline	100-01-6	66	U	66	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	39	J	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenanthrene	85-01-8	120	J	17	170		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	270		17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	6.7	U	6.7	17		10
10138	Acenaphthylene	208-96-8	3.4	U	3.4	17		10
10138	Anthracene	120-12-7	4.2	J	3.4	17		10
10138	Fluorene	86-73-7	6.7	U	6.7	17		10
10138	1-Methylnaphthalene	90-12-0	6.7	U	6.7	17		10
10138	2-Methylnaphthalene	91-57-6	6.7	U	6.7	17		10
10138	Naphthalene	91-20-3	6.7	U	6.7	17		10
10138	N-Nitrosodimethylamine	62-75-9	6.7	U	6.7	17		10
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	14	U	14	14		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.12	U	0.12	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

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Sample Description: **SL-092-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA7-SS-0.0-0.5

LLI Sample # SW 6408589
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 10:45

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4406 SDG#: DE244-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	Reporting limits were raised due to interference from the sample matrix. The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	2.3	J	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.20	U	0.20	0.34		1
01363	p,p-DDE	72-55-9	0.56		0.067	0.34		1
01363	p,p-DDT	50-29-3	1.4		0.067	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.49	U	0.49	0.49		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.048	U	0.048	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	Maintenance and a new calibration was performed prior to the analysis of the samples. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site.							
	The TCX surrogate recovery for the associated method blank is outside the client specified limits of 50-130 at 48%. Since the recovery is within our in-house statistical limits of 28-128, the data is reported.							
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	10		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	3.8		0.33	1.7		1
10225	PCB-1260	11096-82-5	6.9		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1

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Sample Description: **SL-092-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA7-SS-0.0-0.5

LLI Sample # SW 6408589
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 10:45

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4406 SDG#: DE244-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	100	U	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.0	U	2.0	6.0		5
10199	EFH (C15-C20)	n.a.	3.4	J	2.0	6.0		5
10199	EFH (C21-C30)	n.a.	21		2.0	6.0		5
10199	EFH (C30 - C40)	n.a.	94		2.0	6.0		5
10199	EFH (C8-C11)	n.a.	2.0	U	2.0	6.0		5

The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction. Similar sample patterns were detected in both trials. The client was notified and approved reporting the out of hold data.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,600		5.81	19.2		1
07914	Boron	7440-42-8	6.74		0.346	4.80		1
01650	Calcium	7440-70-2	3,070		2.40	19.2		1
01654	Iron	7439-89-6	15,300		2.51	19.2		1
01656	Lithium	7439-93-2	22.8		0.60	1.9		1
01657	Magnesium	7439-95-4	3,820		0.423	9.61		1
06958	Manganese	7439-96-5	228		0.0346	0.480		1
10145	Phosphorus	7723-14-0	380		0.336	9.61		1
01662	Potassium	7440-09-7	3,240		10.9	48.0		1
01667	Sodium	7440-23-5	69.1	J	5.72	96.1		1
07968	Strontium	7440-24-6	9.89		0.0240	0.480		1
06969	Tin	7440-31-5	2.64	J	0.307	9.61		1
06970	Titanium	7440-32-6	1,150		0.0716	1.01		1
10146	Zirconium	7440-67-7	2.40	J	0.442	4.80		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.128	J	0.0718	0.194		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-092-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA7-SS-0.0-0.5

LLI Sample # SW 6408589
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 10:45

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4406 SDG#: DE244-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.92		0.0776	0.388		2
06126	Barium	7440-39-3	86.5		0.103	0.388		2
06127	Beryllium	7440-41-7	0.513		0.0155	0.0970		2
06128	Cadmium	7440-43-9	0.263		0.0427	0.0970		2
06131	Chromium	7440-47-3	15.8		0.116	0.388		2
06132	Cobalt	7440-48-4	4.70		0.0194	0.0970		2
06133	Copper	7440-50-8	8.21		0.0776	0.388		2
06135	Lead	7439-92-1	22.8		0.0099	0.194		2
06138	Molybdenum	7439-98-7	0.434		0.0485	0.0970		2
06139	Nickel	7440-02-0	9.98		0.0970	0.388		2
06141	Selenium	7782-49-2	0.0668	J	0.0563	0.388		2
06142	Silver	7440-22-4	0.0681	J	0.0138	0.0970		2
06145	Thallium	7440-28-0	0.259		0.0291	0.0970		2
06148	Vanadium	7440-62-2	28.4		0.0213	0.0970		2
06149	Zinc	7440-66-6	102		0.543	2.91		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0068	U	0.0068	0.0966		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	2.1		0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.43		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.86		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-092-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA7-SS-0.0-0.5

LLI Sample # SW 6408589
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 10:45

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4406 SDG#: DE244-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11264SLB026	09/27/2011 04:43	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11264SLC026	09/29/2011 02:18	Gregory J Drahovsky	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11264SLC026	09/22/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11264SLB026	09/22/2011 08:40	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112650015A	09/24/2011 03:05	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112640029A	09/26/2011 21:50	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112640017A	09/23/2011 04:04	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112640029A	09/22/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112640017A	09/22/2011 03:00	David V Hershey Jr	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112650015A	09/22/2011 21:30	Elaine F Stoltzfus	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112600025A	09/19/2011 20:34	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620010A	09/20/2011 20:36	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112630012A	09/21/2011 11:24	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112720034A	10/04/2011 11:00	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	2	112720034A	09/30/2011 08:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112630012A	09/20/2011 15:00	Wanda F Oswald	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112600025A	09/19/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620010A	09/19/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112635708005	09/25/2011 11:14	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112635708005	09/25/2011 14:56	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112635708005	09/25/2011 11:14	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112635708005	09/25/2011 11:14	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112635708005	09/25/2011 11:14	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112635708005	09/25/2011 14:56	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112635708005	09/25/2011 11:14	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112635708005	09/25/2011 11:14	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112635708005	09/25/2011 11:14	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112635708005	09/25/2011 11:14	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112635708005	09/25/2011 11:14	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112635708005	09/25/2011 11:14	Tara L Snyder	1

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Sample Description: **SL-092-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA7-SS-0.0-0.5

LLI Sample # SW 6408589
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 10:45

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4406 SDG#: DE244-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112695708002	09/27/2011 11:18	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112635708005	09/25/2011 11:14	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112631026004A	09/22/2011 09:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026004A	09/22/2011 09:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026004D	09/22/2011 09:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026004A	09/22/2011 09:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112631026004A	09/22/2011 09:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026004A	09/22/2011 09:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026004A	09/22/2011 09:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026004A	09/22/2011 09:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026004A	09/22/2011 09:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026004C	09/22/2011 09:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026004A	09/22/2011 09:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026004B	09/22/2011 09:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026004A	09/22/2011 09:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026004A	09/22/2011 09:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026004A	09/22/2011 09:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026004A	09/22/2011 09:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112635711005	09/21/2011 19:02	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708005	09/21/2011 10:50	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112695708002	09/26/2011 21:36	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026004	09/21/2011 11:06	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711005	09/21/2011 11:54	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11265495201A	09/25/2011 02:38	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11262262201A	09/20/2011 17:34	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11269243201A	09/28/2011 15:57	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11265102201A	09/22/2011 18:31	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11265495201A	09/22/2011 22:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11262262201A	09/19/2011 18:15	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11265102201A	09/22/2011 15:25	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11267039401A	09/24/2011 07:05	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11269243201A	09/26/2011 08:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162402A	09/20/2011 20:35	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-096-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA7-SS-0.0-0.5

LLI Sample # SW 6408590
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 08:55

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4407 SDG#: DE244-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-096-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA7-SS-0.0-0.5

LLI Sample # SW 6408590
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 08:55

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4407 SDG#: DE244-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.68	J	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	2.5		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	J	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	1.7		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.1	U	6.1	18		1
10138	Fluoranthene	206-44-0	3.8		0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	2.3		0.67	1.7		1
10138	Pyrene	129-00-0	3.1		0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	44	U	44	44		5
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1
10401	MCPA	94-74-6	76	U	76	250		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.19	U	0.19	0.19		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1

Reporting limits were raised due to interference from the sample matrix. The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-096-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA7-SS-0.0-0.5

LLI Sample # SW 6408590
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 08:55

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4407 SDG#: DE244-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	1.6	J	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	3.1		0.33	1.7		5
01363	p,p-DDT	50-29-3	4.1		0.33	1.7		5
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.17	U	0.17	0.34		1
01363	Endosulfan I	959-98-8	0.053	J	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.29	U	0.29	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.33	U	0.33	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.11	U	0.11	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.22	U	0.22	0.34		1
01363	Toxaphene	8001-35-2	15	U	15	15		1

Maintenance and a new calibration was performed prior to the analysis of the samples. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site.

The TCX surrogate recovery for the associated method blank is outside the client specified limits of 50-130 at 48%. Since the recovery is within our in-house statistical limits of 28-128, the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	7.5		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	9.4		0.33	1.7		1
10225	PCB-1260	11096-82-5	5.4		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1

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Sample Description: **SL-096-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA7-SS-0.0-0.5

LLI Sample # SW 6408590
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 08:55

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4407 SDG#: DE244-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	100	U	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	1.3		0.40	1.2		1
10199	EFH (C21-C30)	n.a.	7.4		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	23		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.40	U	0.40	1.2		1

The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction. Similar sample patterns were detected in both trials. The client was notified and approved reporting the out of hold data.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,800		6.10	20.2		1
07914	Boron	7440-42-8	7.87		0.363	5.05		1
01650	Calcium	7440-70-2	2,380		2.52	20.2		1
01654	Iron	7439-89-6	15,400		2.63	20.2		1
01656	Lithium	7439-93-2	21.2		0.63	2.0		1
01657	Magnesium	7439-95-4	3,280		0.444	10.1		1
06958	Manganese	7439-96-5	296		0.0363	0.505		1
10145	Phosphorus	7723-14-0	389		0.353	10.1		1
01662	Potassium	7440-09-7	3,870		11.4	50.5		1
01667	Sodium	7440-23-5	73.5	J	6.00	101		1
07968	Strontium	7440-24-6	22.1		0.0252	0.505		1
06969	Tin	7440-31-5	2.59	J	0.323	10.1		1
06970	Titanium	7440-32-6	1,100		0.0696	0.980		1
10146	Zirconium	7440-67-7	2.60	J	0.464	5.05		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.106	J	0.0725	0.196		2

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Sample Description: **SL-096-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA7-SS-0.0-0.5

LLI Sample # SW 6408590
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 08:55

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4407 SDG#: DE244-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.97		0.0784	0.392		2
06126	Barium	7440-39-3	127		0.104	0.392		2
06127	Beryllium	7440-41-7	0.621		0.0157	0.0980		2
06128	Cadmium	7440-43-9	0.239		0.0431	0.0980		2
06131	Chromium	7440-47-3	14.9		0.118	0.392		2
06132	Cobalt	7440-48-4	5.31		0.0196	0.0980		2
06133	Copper	7440-50-8	9.65		0.0784	0.392		2
06135	Lead	7439-92-1	21.6		0.010	0.196		2
06138	Molybdenum	7439-98-7	0.657		0.0490	0.0980		2
06139	Nickel	7440-02-0	10.9		0.0980	0.392		2
06141	Selenium	7782-49-2	0.131	J	0.0568	0.392		2
06142	Silver	7440-22-4	0.0539	J	0.0139	0.0980		2
06145	Thallium	7440-28-0	0.302		0.0294	0.0980		2
06148	Vanadium	7440-62-2	29.5		0.0216	0.0980		2
06149	Zinc	7440-66-6	89.1		0.549	2.94		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0230	J	0.0066	0.0934		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80	U	0.80	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.65	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.49		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.10		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.90		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: **SL-096-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA7-SS-0.0-0.5

LLI Sample # SW 6408590
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 08:55

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4407 SDG#: DE244-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11264SLB026	09/27/2011 05:07	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11264SLC026	09/29/2011 02:52	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11264SLC026	09/22/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11264SLB026	09/22/2011 08:40	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112650015A	09/24/2011 04:27	Anita M Dale	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112650015A	09/26/2011 10:13	Anita M Dale	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	112640029A	09/26/2011 20:22	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112640029A	09/26/2011 20:37	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112640017A	09/23/2011 04:23	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112640029A	09/22/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112640017A	09/22/2011 03:00	David V Hershey Jr	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112650015A	09/22/2011 21:30	Elaine F Stoltzfus	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112600025A	09/19/2011 20:49	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620010A	09/20/2011 20:49	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112630012A	09/21/2011 09:56	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112720034A	10/03/2011 03:39	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	112720034A	09/30/2011 08:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112630012A	09/20/2011 15:00	Wanda F Oswald	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112600025A	09/19/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620010A	09/19/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112635708005	09/25/2011 11:18	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112635708005	09/25/2011 15:00	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112635708005	09/25/2011 11:18	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112635708005	09/25/2011 11:18	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112635708005	09/25/2011 11:18	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112635708005	09/25/2011 15:00	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112635708005	09/25/2011 11:18	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112635708005	09/25/2011 11:18	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112635708005	09/25/2011 11:18	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112635708005	09/25/2011 11:18	Tara L Snyder	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-096-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA7-SS-0.0-0.5

LLI Sample # SW 6408590
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 08:55

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E4407 SDG#: DE244-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112635708005	09/25/2011 11:18	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112635708005	09/25/2011 11:18	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112695708002	09/27/2011 11:22	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112635708005	09/25/2011 11:18	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112631026004A	09/22/2011 09:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026004A	09/22/2011 09:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026004D	09/22/2011 09:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026004A	09/22/2011 09:21	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112631026004A	09/22/2011 09:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026004A	09/22/2011 09:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026004A	09/22/2011 09:21	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026004A	09/22/2011 09:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026004A	09/22/2011 09:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026004C	09/22/2011 09:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026004A	09/22/2011 09:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026004B	09/22/2011 09:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026004A	09/22/2011 09:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026004A	09/22/2011 09:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026004A	09/22/2011 09:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026004A	09/22/2011 09:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112635711005	09/21/2011 19:04	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708005	09/21/2011 10:50	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112695708002	09/26/2011 21:36	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026004	09/21/2011 11:06	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711005	09/21/2011 11:54	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11265495201A	09/25/2011 02:51	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11262262201A	09/20/2011 17:57	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11269243201A	09/28/2011 16:04	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11265102201A	09/22/2011 18:32	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11265495201A	09/22/2011 22:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11262262201A	09/19/2011 18:15	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11265102201A	09/22/2011 15:25	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11267039401A	09/24/2011 07:05	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11269243201A	09/26/2011 08:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162402A	09/20/2011 20:35	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-097-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA7-SS-0.0-0.5

LLI Sample # SW 6408591
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 08:10

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4408 SDG#: DE244-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Anthracene	120-12-7	19	J	17	170		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(g,h,i)perylene	191-24-2	58	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	31	J	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	490		17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	52	J	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1

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Sample Description: **SL-097-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-097-SA7-SS-0.0-0.5

LLI Sample # SW 6408591
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 08:10

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4408 SDG#: DE244-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	34	J	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	6.7	U	6.7	17		10
10138	Acenaphthylene	208-96-8	3.4	U	3.4	17		10
10138	Benzo(a)anthracene	56-55-3	55		6.7	17		10
10138	Benzo(a)pyrene	50-32-8	74		6.7	17		10
10138	Benzo(b)fluoranthene	205-99-2	150		6.7	17		10
10138	Benzo(k)fluoranthene	207-08-9	76		6.7	17		10
10138	Butylbenzylphthalate	85-68-7	65	J	61	180		10
10138	Di-n-butylphthalate	84-74-2	74	J	61	180		10
10138	Chrysene	218-01-9	150		3.4	17		10
10138	Dibenz(a,h)anthracene	53-70-3	9.5	J	6.7	17		10
10138	Fluoranthene	206-44-0	330		6.7	17		10
10138	Fluorene	86-73-7	6.7	U	6.7	17		10
10138	1-Methylnaphthalene	90-12-0	6.7	U	6.7	17		10
10138	2-Methylnaphthalene	91-57-6	6.7	U	6.7	17		10
10138	Naphthalene	91-20-3	6.7	U	6.7	17		10
10138	N-Nitrosodimethylamine	62-75-9	6.7	U	6.7	17		10
10138	Phenanthrene	85-01-8	120		6.7	17		10
10138	Pyrene	129-00-0	240		6.7	17		10
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	3.3	U	3.3	3.3		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.25	U	0.25	0.25		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	Reporting limits were raised due to interference from the sample matrix.							
	The recovery for Dinoseb is outside the QC limits. However, this compound does							

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Sample Description: **SL-097-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-097-SA7-SS-0.0-0.5

LLI Sample # SW 6408591
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 08:10

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4408 SDG#: DE244-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.38		0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.054	U	0.054	0.17		1
01363	Chlordane	57-74-9	12		0.81	3.4		1
01363	p,p-DDD	72-54-8	1.3	U	1.3	1.3		1
01363	p,p-DDE	72-55-9	3.8		0.67	3.4		10
01363	p,p-DDT	50-29-3	18		0.67	3.4		10
01363	Delta BHC	319-86-8	0.091	J	0.036	0.17		1
01363	Dieldrin	60-57-1	0.72	U	0.72	0.72		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.51	U	0.51	0.51		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.41	U	0.41	0.41		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.16	U	0.16	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.37	U	0.37	0.37		1
01363	Toxaphene	8001-35-2	43	U	43	43		1
	Maintenance and a new calibration was performed prior to the analysis of the samples. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site.							
	The TCX surrogate recovery for the associated method blank is outside the client specified limits of 50-130 at 48%. Since the recovery is within our in-house statistical limits of 28-128, the data is reported.							
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.0	U	5.0	17		5
10225	Aroclor 5442	12642-23-8	5.0	U	5.0	17		5
10225	Aroclor 5460	11126-42-4	56		5.0	17		5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.6		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.6		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.6		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.6		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.6		5
10225	PCB-1254	11097-69-1	31		1.7	8.6		5
10225	PCB-1260	11096-82-5	22		2.0	8.6		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.6		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.6		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: **SL-097-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-097-SA7-SS-0.0-0.5

LLI Sample # SW 6408591
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 08:10

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Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E4408 SDG#: DE244-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.0	U	2.0	6.1		5
10199	EFH (C15-C20)	n.a.	2.8	J	2.0	6.1		5
10199	EFH (C21-C30)	n.a.	57		2.0	6.1		5
10199	EFH (C30 - C40)	n.a.	170		2.0	6.1		5
10199	EFH (C8-C11)	n.a.	2.0	U	2.0	6.1		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	9,230		6.06	20.0		1
07914	Boron	7440-42-8	7.09		0.361	5.01		1
01650	Calcium	7440-70-2	2,320		2.51	20.0		1
01654	Iron	7439-89-6	15,200		2.62	20.0		1
01656	Lithium	7439-93-2	19.5		0.62	2.0		1
01657	Magnesium	7439-95-4	3,400		0.441	10.0		1
06958	Manganese	7439-96-5	268		0.0361	0.501		1
10145	Phosphorus	7723-14-0	439		0.351	10.0		1
01662	Potassium	7440-09-7	2,770		11.3	50.1		1
01667	Sodium	7440-23-5	126		5.96	100		1
07968	Strontium	7440-24-6	20.4		0.0251	0.501		1
06969	Tin	7440-31-5	2.70	J	0.321	10.0		1
06970	Titanium	7440-32-6	1,030		0.0712	1.00		1
10146	Zirconium	7440-67-7	3.88	J	0.461	5.01		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.270		0.0734	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.37		0.0794	0.397		2
06126	Barium	7440-39-3	95.2		0.105	0.397		2

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Sample Description: **SL-097-SA7-SS-0.0-0.5 Soil**
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SL-097-SA7-SS-0.0-0.5

LLI Sample # SW 6408591
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 08:10

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Suite 210
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E4408 SDG#: DE244-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.464		0.0159	0.0992		2
06128	Cadmium	7440-43-9	0.584		0.0437	0.0992		2
06131	Chromium	7440-47-3	28.8		0.119	0.397		2
06132	Cobalt	7440-48-4	5.87		0.0198	0.0992		2
06133	Copper	7440-50-8	27.2		0.0794	0.397		2
06135	Lead	7439-92-1	38.9		0.0101	0.198		2
06138	Molybdenum	7439-98-7	2.63		0.0496	0.0992		2
06139	Nickel	7440-02-0	18.3		0.0992	0.397		2
06141	Selenium	7782-49-2	0.0706	J	0.0576	0.397		2
06142	Silver	7440-22-4	0.0798	J	0.0141	0.0992		2
06145	Thallium	7440-28-0	0.284		0.0298	0.0992		2
06148	Vanadium	7440-62-2	31.1		0.0218	0.0992		2
06149	Zinc	7440-66-6	1,500		13.9	74.4		50
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0126	J	0.0067	0.0960		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80	U	0.80	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	2.6		0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.56		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.2		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-097-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA7-SS-0.0-0.5

LLI Sample # SW 6408591
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 08:10

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4408 SDG#: DE244-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11264SLB026	09/27/2011 05:31	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11264SLC026	09/29/2011 03:25	Gregory J Drahovsky	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11264SLC026	09/22/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11264SLB026	09/22/2011 08:40	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112650015A	09/24/2011 04:55	Anita M Dale	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112640029A	09/26/2011 20:52	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112640029A	09/26/2011 21:07	Melissa McDermott	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112640017A	09/23/2011 04:42	Jamie L Brillhart	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112640029A	09/22/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112640017A	09/22/2011 03:00	David V Hershey Jr	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112650015A	09/22/2011 21:30	Elaine F Stoltzfus	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112640035A	09/22/2011 20:20	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620010A	09/20/2011 21:01	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112630012A	09/21/2011 12:30	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112650006A	09/24/2011 02:10	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112650006A	09/22/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112630012A	09/20/2011 15:00	Wanda F Oswald	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112640035A	09/22/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620010A	09/19/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112635708005	09/25/2011 11:21	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112635708005	09/25/2011 15:04	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112635708005	09/25/2011 11:21	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112635708005	09/25/2011 11:21	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112635708005	09/25/2011 11:21	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112635708005	09/25/2011 15:04	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112635708005	09/25/2011 11:21	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112635708005	09/25/2011 11:21	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112635708005	09/25/2011 11:21	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112635708005	09/25/2011 11:21	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112635708005	09/25/2011 11:21	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112635708005	09/25/2011 11:21	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112695708002	09/27/2011 11:26	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112635708005	09/25/2011 11:21	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112631026004A	09/22/2011 09:24	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026004A	09/22/2011 09:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026004D	09/22/2011 09:24	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026004A	09/22/2011 09:24	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112631026004A	09/22/2011 09:24	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-097-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-097-SA7-SS-0.0-0.5

LLI Sample # SW 6408591
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 08:10

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4408 SDG#: DE244-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112631026004A	09/22/2011 09:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026004A	09/22/2011 09:24	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026004A	09/22/2011 09:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026004A	09/22/2011 09:24	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026004C	09/22/2011 09:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026004A	09/22/2011 09:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026004B	09/22/2011 09:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026004A	09/22/2011 09:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026004A	09/22/2011 09:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026004A	09/22/2011 09:24	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026004A	09/22/2011 09:41	Choon Y Tian	50
00159	Mercury	SW-846 7471A	1	112635711005	09/21/2011 19:05	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708005	09/21/2011 10:50	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112695708002	09/26/2011 21:36	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026004	09/21/2011 11:06	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711005	09/21/2011 11:54	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11265495201A	09/25/2011 03:04	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11262262201A	09/20/2011 18:20	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11269243201A	09/28/2011 16:18	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11265102201A	09/22/2011 18:33	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11265495201A	09/22/2011 22:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11262262201A	09/19/2011 18:15	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11265102201A	09/22/2011 15:25	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11267039401A	09/24/2011 07:05	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11269243201A	09/26/2011 08:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162402A	09/20/2011 20:35	Scott W Freisher	1

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Analysis Report

Sample Description: SL-037-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA7-SB-4.0-5.0

LLI Sample # SW 6408592
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 09:03

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4409 SDG#: DE244-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: **SL-037-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA7-SB-4.0-5.0

LLI Sample # SW 6408592
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 09:03

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4409 SDG#: DE244-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.11
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1

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Sample Description: **SL-037-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA7-SB-4.0-5.0

LLI Sample # SW 6408592
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 09:03

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4409 SDG#: DE244-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,500		6.50	21.5		1
07914	Boron	7440-42-8	9.85		0.387	5.37		1
01650	Calcium	7440-70-2	2,030		2.68	21.5		1
01654	Iron	7439-89-6	20,400		2.80	21.5		1
01656	Lithium	7439-93-2	29.6		0.67	2.1		1
01657	Magnesium	7439-95-4	4,530		0.472	10.7		1
06958	Manganese	7439-96-5	219		0.0387	0.537		1
10145	Phosphorus	7723-14-0	234		0.376	10.7		1
01662	Potassium	7440-09-7	1,970		12.1	53.7		1
01667	Sodium	7440-23-5	410		6.39	107		1
07968	Strontium	7440-24-6	19.1		0.0268	0.537		1
06969	Tin	7440-31-5	3.18	J	0.344	10.7		1
06970	Titanium	7440-32-6	1,180		0.0762	1.07		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-037-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA7-SB-4.0-5.0

LLI Sample # SW 6408592
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 09:03

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4409 SDG#: DE244-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10146	Zirconium	7440-67-7	3.45	J	0.494	5.37		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0787	U	0.0787	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.76		0.0851	0.425		2
06126	Barium	7440-39-3	74.5		0.113	0.425		2
06127	Beryllium	7440-41-7	0.705		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.0468	U	0.0468	0.106		2
06131	Chromium	7440-47-3	20.3		0.128	0.425		2
06132	Cobalt	7440-48-4	4.76		0.0213	0.106		2
06133	Copper	7440-50-8	7.12		0.0851	0.425		2
06135	Lead	7439-92-1	5.85		0.0108	0.213		2
06138	Molybdenum	7439-98-7	0.354		0.0532	0.106		2
06139	Nickel	7440-02-0	10.4		0.106	0.425		2
06141	Selenium	7782-49-2	0.0908	J	0.0617	0.425		2
06142	Silver	7440-22-4	0.0336	J	0.0151	0.106		2
06145	Thallium	7440-28-0	0.313		0.0319	0.106		2
06148	Vanadium	7440-62-2	38.4		0.0234	0.106		2
06149	Zinc	7440-66-6	66.3		0.595	3.19		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0072	U	0.0072	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.64	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.14		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.7		0.50	0.50		1

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-037-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA7-SB-4.0-5.0

LLI Sample # SW 6408592
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 09:03

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4409 SDG#: DE244-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-037-SA7-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11264SLB026	09/27/2011 05:54	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11264SLC026	09/29/2011 03:59	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11264SLC026	09/22/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11264SLB026	09/22/2011 08:40	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11264A34A	09/21/2011 18:44	Marie D John	23.11
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201125925579	09/16/2011 21:44	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201125925579	09/16/2011 21:46	Lois E Hiltz	n.a.
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112600024A	09/19/2011 17:29	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112640017A	09/23/2011 05:00	Jamie L Brillhart	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112640017A	09/22/2011 03:00	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112600024A	09/19/2011 09:20	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112600025A	09/19/2011 21:19	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620010A	09/20/2011 21:14	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112630012A	09/21/2011 10:18	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112650006A	09/23/2011 22:12	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112650006A	09/22/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112630012A	09/20/2011 15:00	Wanda F Oswald	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112600025A	09/19/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620010A	09/19/2011 12:00	Dustin A Underkoffler	1

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Sample Description: **SL-037-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA7-SB-4.0-5.0

LLI Sample # SW 6408592
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 09:03

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4409 SDG#: DE244-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	112635708005	09/25/2011 11:25	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112635708005	09/25/2011 15:07	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112635708005	09/25/2011 11:25	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112635708005	09/25/2011 11:25	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112635708005	09/25/2011 11:25	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112635708005	09/25/2011 15:07	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112635708005	09/25/2011 11:25	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112635708005	09/25/2011 11:25	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112635708005	09/25/2011 11:25	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112635708005	09/25/2011 11:25	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112635708005	09/25/2011 11:25	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112635708005	09/25/2011 11:25	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112695708002	09/27/2011 11:30	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112635708005	09/25/2011 11:25	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112631026004A	09/22/2011 09:27	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026004A	09/22/2011 09:27	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026004D	09/22/2011 09:27	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026004A	09/22/2011 09:27	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112631026004A	09/22/2011 09:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026004A	09/22/2011 09:27	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026004A	09/22/2011 09:27	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026004A	09/22/2011 09:27	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026004A	09/22/2011 09:27	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026004C	09/22/2011 09:27	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026004A	09/22/2011 09:27	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026004B	09/22/2011 09:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026004A	09/22/2011 09:27	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026004A	09/22/2011 09:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026004A	09/22/2011 09:27	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026004A	09/22/2011 09:27	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112635711005	09/21/2011 19:06	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708005	09/21/2011 10:50	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112695708002	09/26/2011 21:36	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026004	09/21/2011 11:06	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711005	09/21/2011 11:54	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11265495201A	09/25/2011 03:16	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11262262201A	09/20/2011 18:43	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11269243201A	09/28/2011 16:40	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11265102201A	09/22/2011 18:34	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11265495201A	09/22/2011 22:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11262262201A	09/19/2011 18:15	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11265102201A	09/22/2011 15:25	Carolyn M Mastropietro	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: **SL-037-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA7-SB-4.0-5.0

LLI Sample # SW 6408592
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 09:03

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4409 SDG#: DE244-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	17a pH by 9045C	SW-846 9045C modified	1	11267039401A	09/24/2011 07:05	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11269243201A	09/26/2011 08:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162402A	09/20/2011 20:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-070-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA7-SB-3.0-4.0

LLI Sample # SW 6408593
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 10:14

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4410 SDG#: DE244-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-070-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-070-SA7-SB-3.0-4.0

LLI Sample # SW 6408593
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 10:14

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4410 SDG#: DE244-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.68	U	0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.68	U	0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.68	U	0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.68	U	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.68	U	0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.1	U	6.1	18		1
10138	Fluoranthene	206-44-0	0.68	U	0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	0.68	U	0.68	1.7		1
10138	Pyrene	129-00-0	0.68	U	0.68	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		24.37
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.2	U	2.2	5.2		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-070-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-070-SA7-SB-3.0-4.0

LLI Sample # SW 6408593
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 10:14

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4410 SDG#: DE244-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C21-C30)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.41	U	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,000		6.00	19.8		1
07914	Boron	7440-42-8	6.94		0.357	4.96		1
01650	Calcium	7440-70-2	1,450		2.48	19.8		1
01654	Iron	7439-89-6	15,500		2.59	19.8		1
01656	Lithium	7439-93-2	23.5		0.61	2.0		1
01657	Magnesium	7439-95-4	3,750		0.436	9.91		1
06958	Manganese	7439-96-5	342		0.0357	0.496		1
10145	Phosphorus	7723-14-0	127		0.347	9.91		1
01662	Potassium	7440-09-7	1,980		11.2	49.6		1
01667	Sodium	7440-23-5	334		5.90	99.1		1
07968	Strontium	7440-24-6	11.4		0.0248	0.496		1
06969	Tin	7440-31-5	2.73	J	0.317	9.91		1
06970	Titanium	7440-32-6	1,110		0.0711	1.00		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-070-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA7-SB-3.0-4.0

LLI Sample # SW 6408593
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 10:14

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4410 SDG#: DE244-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10146	Zirconium	7440-67-7	2.50	J	0.456	4.96		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0883	J	0.0734	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	15.7		0.0793	0.397		2
06126	Barium	7440-39-3	85.3		0.105	0.397		2
06127	Beryllium	7440-41-7	0.697		0.0159	0.0991		2
06128	Cadmium	7440-43-9	0.0923	J	0.0436	0.0991		2
06131	Chromium	7440-47-3	11.9		0.297	0.991		5
06132	Cobalt	7440-48-4	10.6		0.0198	0.0991		2
06133	Copper	7440-50-8	7.61		0.0793	0.397		2
06135	Lead	7439-92-1	6.49		0.0101	0.198		2
06138	Molybdenum	7439-98-7	0.855		0.0496	0.0991		2
06139	Nickel	7440-02-0	11.6		0.0991	0.397		2
06141	Selenium	7782-49-2	0.0604	J	0.0575	0.397		2
06142	Silver	7440-22-4	0.0326	J	0.0141	0.0991		2
06145	Thallium	7440-28-0	0.309		0.0297	0.0991		2
06148	Vanadium	7440-62-2	31.2		0.0545	0.248		5
06149	Zinc	7440-66-6	57.5		0.555	2.97		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0070	U	0.0070	0.100		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	13.5		0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	30.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.21		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	3.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: **SL-070-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-070-SA7-SB-3.0-4.0

LLI Sample # SW 6408593
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 10:14

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4410 SDG#: DE244-10

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-070-SA7-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11264SLB026	09/27/2011 06:18	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11264SLC026	09/29/2011 04:32	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11264SLC026	09/22/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11264SLB026	09/22/2011 08:40	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11264A34A	09/21/2011 19:21	Marie D John	24.37
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201125925579	09/16/2011 21:48	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201125925579	09/16/2011 21:49	Lois E Hiltz	n.a.
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112600024A	09/19/2011 17:42	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112640017A	09/23/2011 06:35	Jamie L Brillhart	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112640017A	09/22/2011 03:00	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112600024A	09/19/2011 09:20	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112600025A	09/19/2011 21:33	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620010A	09/20/2011 21:27	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112630012A	09/21/2011 10:40	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112650006A	09/23/2011 22:36	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112650006A	09/22/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112630012A	09/20/2011 15:00	Wanda F Oswald	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112600025A	09/19/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620010A	09/19/2011 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112635708005	09/25/2011 11:29	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112635708005	09/25/2011 15:11	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112635708005	09/25/2011 11:29	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112635708005	09/25/2011 11:29	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112635708005	09/25/2011 11:29	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112635708005	09/25/2011 15:11	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112635708005	09/25/2011 11:29	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112635708005	09/25/2011 11:29	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112635708005	09/25/2011 11:29	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112635708005	09/25/2011 11:29	Tara L Snyder	1

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-070-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-070-SA7-SB-3.0-4.0

LLI Sample # SW 6408593
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 10:14

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4410 SDG#: DE244-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112635708005	09/25/2011 11:29	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112635708005	09/25/2011 11:29	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112695708002	09/27/2011 11:33	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112635708005	09/25/2011 11:29	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112631026004A	09/22/2011 09:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026004A	09/22/2011 09:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026004D	09/22/2011 09:31	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026004A	09/22/2011 09:31	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112631026004A	09/22/2011 09:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026004A	09/22/2011 10:03	Choon Y Tian	5
06132	Cobalt	SW-846 6020	1	112631026004A	09/22/2011 09:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026004A	09/22/2011 09:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026004A	09/22/2011 09:31	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026004C	09/22/2011 09:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026004A	09/22/2011 09:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026004B	09/22/2011 09:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026004A	09/22/2011 09:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026004A	09/22/2011 09:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026004A	09/22/2011 10:03	Choon Y Tian	5
06149	Zinc	SW-846 6020	1	112631026004A	09/22/2011 09:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112635711005	09/21/2011 19:07	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708005	09/21/2011 10:50	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112695708002	09/26/2011 21:36	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026004	09/21/2011 11:06	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711005	09/21/2011 11:54	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11265495201A	09/25/2011 03:29	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11262262201A	09/20/2011 19:06	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11269243201A	09/28/2011 16:47	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11265495201A	09/22/2011 22:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11262262201A	09/19/2011 18:15	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11267039401B	09/24/2011 07:05	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11269243201A	09/26/2011 08:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162402A	09/20/2011 20:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-081-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA7-SB-4.0-5.0

LLI Sample # SW 6408594
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 12:20

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4411 SDG#: DE244-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-081-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-081-SA7-SB-4.0-5.0

LLI Sample # SW 6408594
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 12:20

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4411 SDG#: DE244-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-081-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA7-SB-4.0-5.0

LLI Sample # SW 6408594
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 12:20

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4411 SDG#: DE244-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,400		6.53	21.6		1
07914	Boron	7440-42-8	6.96		0.389	5.40		1
01650	Calcium	7440-70-2	2,080		2.70	21.6		1
01654	Iron	7439-89-6	17,600		2.82	21.6		1
01656	Lithium	7439-93-2	26.8		0.67	2.2		1
01657	Magnesium	7439-95-4	4,470		0.475	10.8		1
06958	Manganese	7439-96-5	228		0.0389	0.540		1
10145	Phosphorus	7723-14-0	279		0.378	10.8		1
01662	Potassium	7440-09-7	2,440		12.2	54.0		1
01667	Sodium	7440-23-5	81.4	J	6.42	108		1
07968	Strontium	7440-24-6	12.4		0.0270	0.540		1
06969	Tin	7440-31-5	3.00	J	0.346	10.8		1
06970	Titanium	7440-32-6	1,420		0.0759	1.07		1
10146	Zirconium	7440-67-7	3.00	J	0.497	5.40		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0877	J	0.0776	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.73		0.0839	0.420		2
06126	Barium	7440-39-3	103		0.111	0.420		2
06127	Beryllium	7440-41-7	0.725		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.0774	J	0.0462	0.105		2
06131	Chromium	7440-47-3	19.3		0.126	0.420		2
06132	Cobalt	7440-48-4	6.98		0.0210	0.105		2
06133	Copper	7440-50-8	8.17		0.0839	0.420		2
06135	Lead	7439-92-1	6.39		0.0107	0.210		2
06138	Molybdenum	7439-98-7	0.683		0.0524	0.105		2
06139	Nickel	7440-02-0	13.0		0.105	0.420		2
06141	Selenium	7782-49-2	0.111	J	0.0608	0.420		2
06142	Silver	7440-22-4	0.0325	J	0.0149	0.105		2
06145	Thallium	7440-28-0	0.343		0.0315	0.105		2
06148	Vanadium	7440-62-2	39.7		0.0231	0.105		2
06149	Zinc	7440-66-6	61.9		0.587	3.15		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0074	U	0.0074	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-081-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA7-SB-4.0-5.0

LLI Sample # SW 6408594
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 12:20

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4411 SDG#: DE244-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.86	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.2	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11264SLB026	09/27/2011 06:42	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11264SLC026	09/29/2011 09:05	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11264SLC026	09/22/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11264SLB026	09/22/2011 08:40	Katheryne V Sponheimer	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112600024A	09/19/2011 17:55	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112640017A	09/23/2011 06:54	Jamie L Brillhart	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112640017A	09/22/2011 03:00	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112600024A	09/19/2011 09:20	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	112635708005	09/25/2011 11:33	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112635708005	09/25/2011 15:15	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112635708005	09/25/2011 11:33	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112635708005	09/25/2011 11:33	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112635708005	09/25/2011 11:33	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112635708005	09/25/2011 15:15	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112635708005	09/25/2011 11:33	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112635708005	09/25/2011 11:33	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112635708005	09/25/2011 11:33	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112635708005	09/25/2011 11:33	Tara L Snyder	1

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Analysis Report

Sample Description: SL-081-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA7-SB-4.0-5.0

LLI Sample # SW 6408594
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 12:20

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4411 SDG#: DE244-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112635708005	09/25/2011 11:33	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112635708005	09/25/2011 11:33	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112695708002	09/27/2011 11:37	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112635708005	09/25/2011 11:33	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112631026004A	09/22/2011 09:34	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026004A	09/22/2011 09:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026004D	09/22/2011 09:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026004A	09/22/2011 09:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112631026004A	09/22/2011 09:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026004A	09/22/2011 09:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026004A	09/22/2011 09:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026004A	09/22/2011 09:34	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026004A	09/22/2011 09:34	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026004C	09/22/2011 09:34	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026004A	09/22/2011 09:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026004B	09/22/2011 09:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026004A	09/22/2011 09:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026004A	09/22/2011 09:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026004A	09/22/2011 09:34	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026004A	09/22/2011 09:34	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112635711005	09/21/2011 19:08	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708005	09/21/2011 10:50	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112695708002	09/26/2011 21:36	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026004	09/21/2011 11:06	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711005	09/21/2011 11:54	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11265495201B	09/25/2011 03:42	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11262262201B	09/20/2011 19:29	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11269243201A	09/28/2011 17:02	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11265495201B	09/22/2011 22:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11262262201B	09/19/2011 18:15	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11267039401B	09/24/2011 07:05	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11269243201A	09/26/2011 08:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162402A	09/20/2011 20:35	Scott W Freisher	1

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Analysis Report

Sample Description: SL-081-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA7-SB-9.0-10.0

LLI Sample # SW 6408595
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 12:24

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4412 SDG#: DE244-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-081-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-081-SA7-SB-9.0-10.0

LLI Sample # SW 6408595
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 12:24

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4412 SDG#: DE244-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	190	U	190	190		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.5	J	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.45	J	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.6		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.43	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1

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Sample Description: SL-081-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA7-SB-9.0-10.0

LLI Sample # SW 6408595
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 12:24

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4412 SDG#: DE244-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,500		6.63	21.9		1
07914	Boron	7440-42-8	7.59		0.394	5.48		1
01650	Calcium	7440-70-2	1,980		2.74	21.9		1
01654	Iron	7439-89-6	15,300		2.86	21.9		1
01656	Lithium	7439-93-2	21.4		0.68	2.2		1
01657	Magnesium	7439-95-4	3,400		0.482	11.0		1
06958	Manganese	7439-96-5	288		0.0394	0.548		1
10145	Phosphorus	7723-14-0	322		0.383	11.0		1
01662	Potassium	7440-09-7	3,160		12.4	54.8		1
01667	Sodium	7440-23-5	85.0	J	6.52	110		1
07968	Strontium	7440-24-6	19.6		0.0274	0.548		1
06969	Tin	7440-31-5	2.57	J	0.351	11.0		1
06970	Titanium	7440-32-6	1,150		0.0763	1.07		1
10146	Zirconium	7440-67-7	2.81	J	0.504	5.48		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0811	U	0.0811	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.91		0.0876	0.438		2
06126	Barium	7440-39-3	133		0.116	0.438		2
06127	Beryllium	7440-41-7	0.632		0.0175	0.110		2
06128	Cadmium	7440-43-9	0.192		0.0482	0.110		2
06131	Chromium	7440-47-3	18.1		0.131	0.438		2
06132	Cobalt	7440-48-4	5.89		0.0219	0.110		2
06133	Copper	7440-50-8	10.3		0.0876	0.438		2
06135	Lead	7439-92-1	6.10		0.0112	0.219		2
06138	Molybdenum	7439-98-7	0.644		0.0548	0.110		2
06139	Nickel	7440-02-0	13.0		0.110	0.438		2
06141	Selenium	7782-49-2	0.129	J	0.0635	0.438		2
06142	Silver	7440-22-4	0.0460	J	0.0156	0.110		2
06145	Thallium	7440-28-0	0.327		0.0329	0.110		2
06148	Vanadium	7440-62-2	33.5		0.0241	0.110		2
06149	Zinc	7440-66-6	68.8		0.613	3.29		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076	U	0.0076	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.5		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-081-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA7-SB-9.0-10.0

LLI Sample # SW 6408595
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 12:24

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4412 SDG#: DE244-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.14	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11264SLB026	09/27/2011 07:06	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11264SLC026	09/29/2011 09:38	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11264SLC026	09/22/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11264SLB026	09/22/2011 08:40	Katheryne V Sponheimer	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112600024A	09/20/2011 08:45	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112640017A	09/23/2011 07:12	Jamie L Brillhart	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112640017A	09/22/2011 03:00	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112600024A	09/19/2011 09:20	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	112635708005	09/25/2011 11:37	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112635708005	09/25/2011 15:19	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112635708005	09/25/2011 11:37	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112635708005	09/25/2011 11:37	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112635708005	09/25/2011 11:37	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112635708005	09/25/2011 15:19	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112635708005	09/25/2011 11:37	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112635708005	09/25/2011 11:37	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112635708005	09/25/2011 11:37	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112635708005	09/25/2011 11:37	Tara L Snyder	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-081-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA7-SB-9.0-10.0

LLI Sample # SW 6408595
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 12:24

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4412 SDG#: DE244-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112635708005	09/25/2011 11:37	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112635708005	09/25/2011 11:37	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112695708002	09/27/2011 11:41	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112635708005	09/25/2011 11:37	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112631026004A	09/22/2011 09:37	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026004A	09/22/2011 09:37	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026004D	09/22/2011 09:37	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026004A	09/22/2011 09:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112631026004A	09/22/2011 09:37	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026004A	09/22/2011 09:37	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026004A	09/22/2011 09:37	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026004A	09/22/2011 09:37	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026004A	09/22/2011 09:37	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026004C	09/22/2011 09:37	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026004A	09/22/2011 09:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026004B	09/22/2011 09:37	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026004A	09/22/2011 09:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026004A	09/22/2011 09:37	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026004A	09/22/2011 09:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026004A	09/22/2011 09:37	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112635711005	09/21/2011 19:10	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708005	09/21/2011 10:50	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112695708002	09/26/2011 21:36	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026004	09/21/2011 11:06	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711005	09/21/2011 11:54	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11265495201B	09/25/2011 04:45	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11262262201B	09/20/2011 21:02	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11269243201A	09/28/2011 17:16	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11265495201B	09/22/2011 22:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11262262201B	09/19/2011 18:15	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11267039401B	09/24/2011 07:05	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11269243201A	09/26/2011 08:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162402B	09/20/2011 20:35	Scott W Freisher	1

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Analysis Report

Sample Description: SL-183-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA7-SB-4.0-5.0

LLI Sample # SW 6408596
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 14:45

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4413 SDG#: DE244-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-183-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-183-SA7-SB-4.0-5.0

LLI Sample # SW 6408596
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 14:45

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4413 SDG#: DE244-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.4		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-183-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA7-SB-4.0-5.0

LLI Sample # SW 6408596
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 14:45

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4413 SDG#: DE244-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,200		6.30	20.8		1
07914	Boron	7440-42-8	2.42	J	0.375	5.20		1
01650	Calcium	7440-70-2	3,090		2.60	20.8		1
01654	Iron	7439-89-6	19,600		2.72	20.8		1
01656	Lithium	7439-93-2	27.4		0.65	2.1		1
01657	Magnesium	7439-95-4	6,260		0.458	10.4		1
06958	Manganese	7439-96-5	309		0.0375	0.520		1
10145	Phosphorus	7723-14-0	392		0.364	10.4		1
01662	Potassium	7440-09-7	2,680		11.8	52.0		1
01667	Sodium	7440-23-5	98.0	J	6.19	104		1
07968	Strontium	7440-24-6	11.9		0.0260	0.520		1
06969	Tin	7440-31-5	2.89	J	0.333	10.4		1
06970	Titanium	7440-32-6	1,280		0.0753	1.06		1
10146	Zirconium	7440-67-7	3.08	J	0.479	5.20		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0862	J	0.0770	0.208		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.46		0.0833	0.416		2
06126	Barium	7440-39-3	105		0.110	0.416		2
06127	Beryllium	7440-41-7	0.628		0.0167	0.104		2
06128	Cadmium	7440-43-9	0.0960	J	0.0458	0.104		2
06131	Chromium	7440-47-3	26.6		0.125	0.416		2
06132	Cobalt	7440-48-4	9.57		0.0208	0.104		2
06133	Copper	7440-50-8	11.8		0.0833	0.416		2
06135	Lead	7439-92-1	5.84		0.0106	0.208		2
06138	Molybdenum	7439-98-7	0.506		0.0520	0.104		2
06139	Nickel	7440-02-0	17.5		0.104	0.416		2
06141	Selenium	7782-49-2	0.0713	J	0.0604	0.416		2
06142	Silver	7440-22-4	0.0404	J	0.0148	0.104		2
06145	Thallium	7440-28-0	0.336		0.0312	0.104		2
06148	Vanadium	7440-62-2	49.5		0.0229	0.104		2
06149	Zinc	7440-66-6	69.3		0.583	3.12		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0224	J	0.0075	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.5		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-183-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA7-SB-4.0-5.0

LLI Sample # SW 6408596
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 14:45

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4413 SDG#: DE244-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.27	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.6	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11264SLB026	09/27/2011 07:29	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11264SLC026	09/29/2011 10:12	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11264SLC026	09/22/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11264SLB026	09/22/2011 08:40	Katheryne V Sponheimer	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112600024A	09/20/2011 08:57	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112640017A	09/23/2011 07:31	Jamie L Brillhart	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112640017A	09/22/2011 03:00	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112600024A	09/19/2011 09:20	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	112635708005	09/25/2011 11:48	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112635708005	09/25/2011 11:48	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112635708005	09/25/2011 11:48	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112635708005	09/25/2011 11:48	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112635708005	09/25/2011 11:48	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112635708005	09/25/2011 15:30	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112635708005	09/25/2011 11:48	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112635708005	09/25/2011 11:48	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112635708005	09/25/2011 11:48	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112635708005	09/25/2011 11:48	Tara L Snyder	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-183-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA7-SB-4.0-5.0

LLI Sample # SW 6408596
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 14:45

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4413 SDG#: DE244-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112635708005	09/25/2011 11:48	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112635708005	09/25/2011 11:48	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112695708002	09/27/2011 11:45	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112635708005	09/25/2011 11:48	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112631026004A	09/22/2011 09:50	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026004A	09/22/2011 09:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026004D	09/22/2011 09:50	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026004A	09/22/2011 09:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112631026004A	09/22/2011 09:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026004A	09/22/2011 09:50	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026004A	09/22/2011 09:50	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026004A	09/22/2011 09:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026004A	09/22/2011 09:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026004C	09/22/2011 09:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026004A	09/22/2011 09:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026004B	09/22/2011 09:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026004A	09/22/2011 09:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026004A	09/22/2011 09:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026004A	09/22/2011 09:50	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026004A	09/22/2011 09:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112635711005	09/21/2011 19:11	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708005	09/21/2011 10:50	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112695708002	09/26/2011 21:36	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026004	09/21/2011 11:06	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711005	09/21/2011 11:54	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11265495201B	09/25/2011 04:58	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11262262201B	09/20/2011 21:25	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11269243201A	09/28/2011 17:30	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11265495201B	09/22/2011 22:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11262262201B	09/19/2011 18:15	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11267039401B	09/24/2011 07:05	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11269243201A	09/26/2011 08:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162402B	09/20/2011 20:35	Scott W Freisher	1

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Analysis Report

Sample Description: SL-183-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA7-SB-9.0-10.0

LLI Sample # SW 6408597
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 14:48

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4414 SDG#: DE244-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-183-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-183-SA7-SB-9.0-10.0

LLI Sample # SW 6408597
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 14:48

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4414 SDG#: DE244-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	190	U	190	190		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4	U	2.4	5.6		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-183-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA7-SB-9.0-10.0

LLI Sample # SW 6408597
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 14:48

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4414 SDG#: DE244-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,400		6.84	22.6		1
07914	Boron	7440-42-8	4.39	J	0.407	5.65		1
01650	Calcium	7440-70-2	2,380		2.82	22.6		1
01654	Iron	7439-89-6	21,000		2.95	22.6		1
01656	Lithium	7439-93-2	27.8		0.70	2.3		1
01657	Magnesium	7439-95-4	5,220		0.497	11.3		1
06958	Manganese	7439-96-5	228		0.0407	0.565		1
10145	Phosphorus	7723-14-0	234		0.395	11.3		1
01662	Potassium	7440-09-7	2,150		12.8	56.5		1
01667	Sodium	7440-23-5	105	J	6.72	113		1
07968	Strontium	7440-24-6	19.3		0.0282	0.565		1
06969	Tin	7440-31-5	2.93	J	0.362	11.3		1
06970	Titanium	7440-32-6	1,520		0.0771	1.09		1
10146	Zirconium	7440-67-7	4.31	J	0.520	5.65		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.126	J	0.0836	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.30		0.0904	0.452		2
06126	Barium	7440-39-3	140		0.120	0.452		2
06127	Beryllium	7440-41-7	1.01		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.126		0.0497	0.113		2
06131	Chromium	7440-47-3	31.2		0.136	0.452		2
06132	Cobalt	7440-48-4	8.96		0.0226	0.113		2
06133	Copper	7440-50-8	13.6		0.0904	0.452		2
06135	Lead	7439-92-1	8.27		0.0115	0.226		2
06138	Molybdenum	7439-98-7	0.992		0.0565	0.113		2
06139	Nickel	7440-02-0	21.1		0.113	0.452		2
06141	Selenium	7782-49-2	0.189	J	0.0655	0.452		2
06142	Silver	7440-22-4	0.0582	J	0.0160	0.113		2
06145	Thallium	7440-28-0	0.342		0.0339	0.113		2
06148	Vanadium	7440-62-2	61.4		0.0249	0.113		2
06149	Zinc	7440-66-6	61.5		0.633	3.39		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0078	U	0.0078	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.8		0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	33.9		1

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Analysis Report

Sample Description: SL-183-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA7-SB-9.0-10.0

LLI Sample # SW 6408597
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 14:48

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4414 SDG#: DE244-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.65 J	0.23	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.94	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11264SLB026	09/27/2011 07:53	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11264SLC026	09/29/2011 10:45	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11264SLC026	09/22/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11264SLB026	09/22/2011 08:40	Katheryne V Sponheimer	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112600024A	09/20/2011 09:10	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112640017A	09/23/2011 07:50	Jamie L Brillhart	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112640017A	09/22/2011 03:00	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112600024A	09/19/2011 09:20	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	112635708005	09/25/2011 11:52	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112635708005	09/25/2011 11:52	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112635708005	09/25/2011 11:52	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112635708005	09/25/2011 11:52	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112635708005	09/25/2011 11:52	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112635708005	09/25/2011 15:34	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112635708005	09/25/2011 11:52	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112635708005	09/25/2011 11:52	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112635708005	09/25/2011 11:52	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112635708005	09/25/2011 11:52	Tara L Snyder	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-183-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA7-SB-9.0-10.0

LLI Sample # SW 6408597
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 14:48

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4414 SDG#: DE244-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112635708005	09/25/2011 11:52	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112635708005	09/25/2011 11:52	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112695708002	09/27/2011 11:55	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112635708005	09/25/2011 11:52	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112631026004A	09/22/2011 09:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026004A	09/22/2011 09:53	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026004D	09/22/2011 09:53	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026004A	09/22/2011 09:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112631026004A	09/22/2011 09:53	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026004A	09/22/2011 09:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026004A	09/22/2011 09:53	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026004A	09/22/2011 09:53	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026004A	09/22/2011 09:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026004C	09/22/2011 09:53	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026004A	09/22/2011 09:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026004B	09/22/2011 09:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026004A	09/22/2011 09:53	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026004A	09/22/2011 09:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026004A	09/22/2011 09:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026004A	09/22/2011 09:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112635711005	09/21/2011 19:12	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708005	09/21/2011 10:50	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112695708002	09/26/2011 21:36	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026004	09/21/2011 11:06	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711005	09/21/2011 11:54	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11265495201B	09/25/2011 05:11	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11262262201B	09/20/2011 21:48	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11269243201A	09/28/2011 17:59	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11265495201B	09/22/2011 22:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11262262201B	09/19/2011 18:15	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11267039401B	09/24/2011 07:05	Yolunder Y Bunch	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11269243201A	09/26/2011 08:45	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162402B	09/20/2011 20:35	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: **TB-091511 Water**
SSFL Area IV Collocated Soil Sampling
TB-091511

LLI Sample # WW 6408598
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 08:00

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4415 SDG#: DE244-15TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11270C20A	09/28/2011	15:28	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	11270C20A	09/28/2011	15:28	Catherine J Schwarz	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA7-SB-091511 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-091511

LLI Sample # WW 6408599
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:00

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4416 SDG#: DE244-16EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	30		6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Sample Description: **EB-SA7-SB-091511 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-091511

LLI Sample # WW 6408599
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:00

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4416 SDG#: DE244-16EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	5	J	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	4.34		1.09	2.17		1

Reporting limits were raised due to limited sample volume.

The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	21	U	21	63		1
04678	Benzoic acid	65-85-0	6	U	6	16		1
04678	Benzyl alcohol	100-51-6	5	U	5	16		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1

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SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-091511

LLI Sample # WW 6408599
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:00

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14420 Albemarle Point Place
Suite 210
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E4416 SDG#: DE244-16EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	31		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	16		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	31		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	16		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	Tetralin	119-64-2	5	U	5	5		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.011	U	0.011	0.056		1
10137	Acenaphthylene	208-96-8	0.011	U	0.011	0.056		1
10137	Anthracene	120-12-7	0.011	U	0.011	0.056		1
10137	Benzo(a)anthracene	56-55-3	0.011	U	0.011	0.056		1
10137	Benzo(a)pyrene	50-32-8	0.011	U	0.011	0.056		1
10137	Benzo(b)fluoranthene	205-99-2	0.011	U	0.011	0.056		1
10137	Benzo(g,h,i)perylene	191-24-2	0.011	U	0.011	0.056		1
10137	Benzo(k)fluoranthene	207-08-9	0.011	U	0.011	0.056		1

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SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-091511

LLI Sample # WW 6408599
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:00

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E4416 SDG#: DE244-16EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Butylbenzylphthalate	85-68-7	0.056	U	0.056	1.1		1
10137	Di-n-butylphthalate	84-74-2	0.83	J	0.056	1.1		1
10137	Chrysene	218-01-9	0.011	U	0.011	0.056		1
10137	Dibenz(a,h)anthracene	53-70-3	0.011	U	0.011	0.056		1
10137	Diethylphthalate	84-66-2	0.27	J	0.056	1.1		1
10137	Dimethylphthalate	131-11-3	0.056	U	0.056	1.1		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.070	J	0.056	1.1		1
10137	Fluoranthene	206-44-0	0.011	U	0.011	0.056		1
10137	Fluorene	86-73-7	0.011	U	0.011	0.056		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.011	U	0.011	0.056		1
10137	1-Methylnaphthalene	90-12-0	0.011	U	0.011	0.056		1
10137	2-Methylnaphthalene	91-57-6	0.011	U	0.011	0.056		1
10137	Naphthalene	91-20-3	0.034	U	0.034	0.056		1
10137	N-Nitrosodimethylamine	62-75-9	0.011	U	0.011	0.056		1
10137	Di-n-octylphthalate	117-84-0	0.056	U	0.056	1.1		1
10137	Phenanthrene	85-01-8	0.034	U	0.034	0.056		1
10137	Pyrene	129-00-0	0.011	U	0.011	0.056		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of .064 ug/l. The blank value was not subtracted from the analytical result.

Reporting limits were raised due to limited sample volume.

GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	26	J	20	50		1
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.75		0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1

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SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-091511

LLI Sample # WW 6408599
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:00

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E4416 SDG#: DE244-16EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	2.9		0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10407	2,4-D	94-75-7	0.16	U	0.16	0.51		1
10407	Dalapon	75-99-0	0.25	U	0.25	1.3		1
10407	2,4-DB	94-82-6	0.30	U	0.30	1.0		1
10407	Dicamba	1918-00-9	0.081	U	0.081	0.30		1
10407	Dinoseb	88-85-7	0.10	U	0.10	0.51		1
10407	2,4-DP (Dichlorprop)	120-36-5	0.16	U	0.16	0.51		1
10407	MCPA	94-74-6	300	U	300	1,000		1
10407	MCPP	93-65-2	51	U	51	200		1
10407	2,4,5-T	93-76-5	0.015	U	0.015	0.051		1
10407	2,4,5-TP	93-72-1	0.010	U	0.010	0.051		1
HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	20b Formaldehyde 8315A	50-00-0	10	U	10	50		1
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00177	Aldrin	309-00-2	0.0020	U	0.0020	0.0099		1
00177	Alpha BHC	319-84-6	0.0030	U	0.0030	0.0099		1
00177	Beta BHC	319-85-7	0.0029	U	0.0029	0.0099		1
00177	Gamma BHC - Lindane	58-89-9	0.0020	U	0.0020	0.0099		1
00177	Chlordane	57-74-9	0.12	U	0.12	0.49		1
00177	p,p-DDD	72-54-8	0.0049	U	0.0049	0.020		1
00177	p,p-DDE	72-55-9	0.0049	U	0.0049	0.020		1
00177	p,p-DDT	50-29-3	0.0049	U	0.0049	0.020		1
00177	Delta BHC	319-86-8	0.0029	U	0.0029	0.0099		1
00177	Dieldrin	60-57-1	0.0052	U	0.0052	0.020		1
00177	Endosulfan I	959-98-8	0.0042	U	0.0042	0.0099		1
00177	Endosulfan II	33213-65-9	0.015	U	0.015	0.020		1
00177	Endosulfan Sulfate	1031-07-8	0.0057	U	0.0057	0.020		1
00177	Endrin	72-20-8	0.0080	U	0.0080	0.020		1
00177	Endrin Aldehyde	7421-93-4	0.020	U	0.020	0.099		1
00177	Endrin Ketone	53494-70-5	0.0049	U	0.0049	0.020		1
00177	Heptachlor	76-44-8	0.0026	U	0.0026	0.0099		1
00177	Heptachlor Epoxide	1024-57-3	0.0023	U	0.0023	0.0099		1

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EB-SA7-SB-091511

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Chantilly VA 20151

E4416 SDG#: DE244-16EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/l		ug/l	ug/l	ug/l	
00177	Methoxychlor	72-43-5	0.030	U	0.030	0.099		1
00177	Mirex	2385-85-5	0.083	U	0.083	0.25		1
00177	Toxaphene	8001-35-2	0.99	U	0.99	3.0		1
Pesticides/PCBs	**SW-846 8082**		ug/l		ug/l	ug/l	ug/l	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.51		1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.51		1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.51		1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.51		1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.51		1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.51		1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.51		1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.51		1
10227	PCB-1254	11097-69-1	0.10	U	0.10	0.51		1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.51		1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.51		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.51		1
GC Miscellaneous	**SW-846 8015B**		ug/l		ug/l	ug/l	ug/l	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1
GC Miscellaneous	**SW-846 8015B modified**		mg/l		mg/l	mg/l	mg/l	
08278	Diethylene glycol	111-46-6	20	U	20	200		1
08278	Ethylene glycol	107-21-1	20	U	20	200		1
08278	Propylene glycol	57-55-6	20	U	20	200		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		mg/l		mg/l	mg/l	mg/l	
10319	m-Terphenyl	92-06-8	0.082	U	0.082	0.26		1
10319	o-Terphenyl	84-15-1	0.082	U	0.082	0.26		1
10319	p-Terphenyl	92-94-4	0.082	U	0.082	0.26		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		mg/l		mg/l	mg/l	mg/l	
10365	EFH (C12-C14)	n.a.	0.099	U	0.099	0.59		1
10365	EFH (C15-C20)	n.a.	0.099	U	0.099	0.59		1
10365	EFH (C21-C30)	n.a.	0.099	U	0.099	0.59		1
10365	EFH (C30 - C40)	n.a.	0.099	U	0.099	0.59		1
10365	EFH (C8-C11)	n.a.	0.099	U	0.099	0.59		1

The LCS recovery is below the QC limits for the C30-C40 range. Since there was no sample remaining for a reextraction, the data is reported.

Metals	**SW-846 6010B**		mg/l		mg/l	mg/l	mg/l	
01743	Aluminum	7429-90-5	0.0801	U	0.0801	0.200		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB-SA7-SB-091511 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-091511

LLI Sample # WW 6408599
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:00

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4416 SDG#: DE244-16EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
08014	Boron	7440-42-8	0.0094 J	0.0022	0.0500		1
01750	Calcium	7440-70-2	0.0705 U	0.0705	0.200		1
01754	Iron	7439-89-6	0.0141 U	0.0141	0.200		1
01756	Lithium	7439-93-2	0.0076 U	0.0076	0.0200		1
01757	Magnesium	7439-95-4	0.0079 J	0.0067	0.100		1
07058	Manganese	7439-96-5	0.00044 U	0.00044	0.0050		1
10143	Phosphorus	7723-14-0	0.0047 U	0.0047	0.100		1
01762	Potassium	7440-09-7	0.0874 U	0.0874	0.500		1
01767	Sodium	7440-23-5	0.0647 U	0.0647	1.00		1
08068	Strontium	7440-24-6	0.00025 J	0.00022	0.0050		1
07069	Tin	7440-31-5	0.0043 U	0.0043	0.0200		1
07070	Titanium	7440-32-6	0.00046 U	0.00046	0.0100		1
10144	Zirconium	7440-67-7	0.0042 J	0.0042	0.0500		1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00042 U	0.00042	0.0010		1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00069 U	0.00069	0.0020		1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000080 U	0.000080	0.0010		1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00027 U	0.00027	0.0020		1
06042	Silver	7440-22-4	0.000098 U	0.000098	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00018 U	0.00018	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000026 U	0.000026	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050 U	0.050	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9012B		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
08255	16b Cyanide by 9012B	57-12-5	0.0050 U	0.0050	0.010		1

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Sample Description: **EB-SA7-SB-091511 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-091511

LLI Sample # WW 6408599
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:00

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4416 SDG#: DE244-16EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9040B**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	17b pH by 9040B	n.a.	5.5	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260B	SW-846 8260B	1	L112651AA	09/22/2011 13:05	Chelsea B Eastep	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E112631AA	09/20/2011 10:10	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E112631AA	09/20/2011 10:10	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	L112651AA	09/22/2011 13:05	Chelsea B Eastep	1
10962	21b NDMA by 1625C	EPA 1625C	1	11264WAF026	09/29/2011 16:33	Matthew S Woods	1
04678	5b SVOCs with Tetralin 8270C	SW-846 8270C	1	11264WAA026	09/27/2011 01:32	Holly Berry	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11260WAC026	09/23/2011 10:13	Mark A Clark	1
00813	BNA Water Extraction	SW-846 3510C	1	11264WAA026	09/21/2011 22:00	Elaine F Stoltzfus	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11260WAC026	09/18/2011 20:00	Nicholas W Shroyer	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11264WAF026	09/21/2011 16:20	Wanda F Oswald	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11270C20A	09/28/2011 16:34	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	11270C20A	09/28/2011 16:34	Catherine J Schwarz	1
10131	15b Energetics by 8330A	SW-846 8330A	1	112620022A	09/21/2011 03:22	James H Place	1
04144	20b Formaldehyde 8315A	SW-846 8315A	1	112590019A	09/19/2011 18:48	James H Place	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	112630020A	09/23/2011 07:54	Anita M Dale	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	112630018A	09/21/2011 20:20	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	112630017A	09/22/2011 13:40	Jamie L Brillhart	1
11117	PCB Waters Extraction	SW-846 3510C	1	112630017A	09/21/2011 02:30	Sherry L Morrow	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	112630018A	09/21/2011 02:30	Sherry L Morrow	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	112630020A	09/21/2011 11:00	Olivia I Santiago	1
01013	Formaldehyde Extraction	SW-846 8315A	1	112590019A	09/17/2011 06:15	Joseph S Feister	1
11122	Energetics Extraction	SW-846 8330	1	112620022A	09/20/2011 10:45	Kelli M Barto	1
06624	18b Alcohols by 8015B	SW-846 8015B	1	112620028A	09/20/2011 18:08	Elizabeth J Marin	1

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Sample Description: EB-SA7-SB-091511 Water
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-091511

LLI Sample # WW 6408599
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E4416 SDG#: DE244-16EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08278	19b Glycols by 8015B	SW-846 8015B modified	1	112630005A	09/21/2011 15:27	Tyler O Griffin	1
10319	22b Terphenyls by 8015B	SW-846 8015B	1	112620006A	09/21/2011 14:43	Heather E Williams	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112600007A	09/20/2011 23:26	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	112600007A	09/19/2011 15:30	Kathryn I DeHaven	1
10304	Terphenyls water prep	SW-846 3510C	1	112620006A	09/19/2011 17:05	JoElla L Rice	1
01743	Aluminum	SW-846 6010B	1	112611848001	09/23/2011 21:01	John P Hook	1
08014	Boron	SW-846 6010B	1	112611848001	09/23/2011 21:01	John P Hook	1
01750	Calcium	SW-846 6010B	1	112611848001	09/23/2011 21:01	John P Hook	1
01754	Iron	SW-846 6010B	1	112611848001	09/23/2011 21:01	John P Hook	1
01756	Lithium	SW-846 6010B	1	112611848001	09/23/2011 21:01	John P Hook	1
01757	Magnesium	SW-846 6010B	1	112611848001	09/23/2011 21:01	John P Hook	1
07058	Manganese	SW-846 6010B	1	112611848001	09/23/2011 21:01	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	112611848001	09/25/2011 08:17	Tara L Snyder	1
01762	Potassium	SW-846 6010B	1	112611848001	09/23/2011 21:01	John P Hook	1
01767	Sodium	SW-846 6010B	1	112611848001	09/23/2011 21:01	John P Hook	1
08068	Strontium	SW-846 6010B	1	112611848001	09/23/2011 21:01	John P Hook	1
07069	Tin	SW-846 6010B	1	112611848001	09/23/2011 21:01	John P Hook	1
07070	Titanium	SW-846 6010B	1	112611848001	09/23/2011 21:01	John P Hook	1
10144	Zirconium	SW-846 6010B	1	112611848001	09/23/2011 21:01	John P Hook	1
06024	Antimony	SW-846 6020	1	112616050001A	09/19/2011 08:18	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	112616050001A	09/19/2011 08:18	Choon Y Tian	1
06026	Barium	SW-846 6020	1	112616050001D	09/19/2011 08:18	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	112616050001A	09/19/2011 08:18	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	112616050001A	09/19/2011 08:18	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	112616050001A	09/19/2011 08:18	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	112616050001A	09/19/2011 08:18	Choon Y Tian	1
06033	Copper	SW-846 6020	1	112616050001A	09/19/2011 08:18	Choon Y Tian	1
06035	Lead	SW-846 6020	1	112616050001A	09/19/2011 08:18	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	112616050001C	09/19/2011 08:18	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	112616050001A	09/19/2011 08:18	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	112616050001B	09/19/2011 08:18	Choon Y Tian	1
06042	Silver	SW-846 6020	1	112616050001A	09/19/2011 08:18	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	112616050001A	09/19/2011 08:18	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	112616050001A	09/19/2011 08:18	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	112616050001A	09/19/2011 08:18	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	112665713006	09/24/2011 10:54	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	112611848001	09/18/2011 13:07	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	112616050001	09/18/2011 13:07	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	112665713006	09/23/2011 18:30	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11259196902C	09/16/2011 21:37	Ashley M Adams	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11259196902C	09/16/2011 21:37	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11259281101A	09/16/2011 14:25	Elyse P Brunstetter	1

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Sample Description: **EB-SA7-SB-091511 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-091511

LLI Sample # WW 6408599
LLI Group # 1266816
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:00

Submitted: 09/16/2011 09:10
Reported: 10/12/2011 10:46

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4416 SDG#: DE244-16EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11259281401B	09/16/2011 12:41	Elyse P Brunstetter	1
08255	16b Cyanide by 9012B	SW-846 9012B	1	11264117101B	09/21/2011 19:22	Joseph E McKenzie	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11264117101B	09/21/2011 15:20	Carolyn M Mastropietro	1
00200	17b pH by 9040B	SW-846 9040B	1	11265020002A	09/22/2011 08:30	Michelle L Lalli	1

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266816
Reported: 10/12/11 at 10:46 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: E112631AA	Sample number(s): 6408599									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	106		80-123		
Batch number: L112651AA	Sample number(s): 6408599									
Acetone	6	U	6.	20	ug/l	136	122	49-234	11	30
Benzene	0.5	U	0.5	5	ug/l	105	102	79-120	4	30
Bromobenzene	1	U	1.	5	ug/l	104	103	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	109	106	80-120	2	30
Bromodichloromethane	1	U	1.	5	ug/l	99	96	80-120	3	30
Bromoform	1	U	1.	5	ug/l	100	98	61-120	1	30
Bromomethane	1	U	1.	5	ug/l	85	80	44-120	6	30
2-Butanone	3	U	3.	10	ug/l	96	91	66-151	6	30
n-Butylbenzene	1	U	1.	5	ug/l	99	95	74-120	4	30
sec-Butylbenzene	1	U	1.	5	ug/l	100	97	78-120	3	30
tert-Butylbenzene	1	U	1.	5	ug/l	102	96	80-120	6	30
Carbon Tetrachloride	1	U	1.	5	ug/l	100	94	75-123	6	30
Chlorobenzene	0.8	U	0.8	5	ug/l	101	101	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	94	89	49-129	5	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	94	94	56-129	0	30
Chloroform	0.8	U	0.8	5	ug/l	101	98	77-122	4	30
Chloromethane	1	U	1.	5	ug/l	94	89	60-129	5	30
2-Chlorotoluene	1	U	1.	5	ug/l	100	97	80-120	3	30
4-Chlorotoluene	1	U	1.	5	ug/l	101	99	80-120	1	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	79	77	38-136	2	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	91	93	56-126	2	30
Dibromochloromethane	1	U	1.	5	ug/l	96	97	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	103	103	80-120	1	30
Dibromomethane	1	U	1.	5	ug/l	102	98	80-120	4	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	103	101	80-120	2	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	102	101	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	102	101	80-120	1	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	83	79	47-120	4	30
1,1-Dichloroethane	1	U	1.	5	ug/l	98	94	79-120	5	30
1,2-Dichloroethane	1	U	1.	5	ug/l	97	96	70-130	2	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	108	104	74-123	4	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	105	100	80-120	5	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	104	101	80-120	3	30
1,2-Dichloropropane	1	U	1.	5	ug/l	98	95	78-120	3	30
1,3-Dichloropropane	1	U	1.	5	ug/l	99	101	80-120	2	30
2,2-Dichloropropane	1	U	1.	5	ug/l	104	100	77-124	4	30
1,1-Dichloropropene	1	U	1.	5	ug/l	101	97	80-120	4	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	99	98	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	95	94	79-120	0	30
Ethylbenzene	0.8	U	0.8	5	ug/l	101	100	79-120	2	30
Freon 113	2	U	2.	10	ug/l	105	101	69-128	4	30
Freon 133a	2	U	2.	5	ug/l	84	83	77-120	1	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266816
Reported: 10/12/11 at 10:46 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Hexachlorobutadiene	2	U	2.	5	ug/l	112	107	58-120	5	30
2-Hexanone	3	U	3.	10	ug/l	90	90	65-136	0	30
Isopropylbenzene	1	U	1.	5	ug/l	103	101	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	99	96	80-120	3	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	98	97	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	86	85	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	105	101	80-120	4	30
n-Propylbenzene	1	U	1.	5	ug/l	101	98	80-120	2	30
Styrene	1	U	1.	5	ug/l	103	102	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	100	98	80-120	2	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	97	97	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	112	109	80-121	2	30
Toluene	0.7	U	0.7	5	ug/l	105	102	79-120	3	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	104	103	65-120	1	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	99	98	67-120	1	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	101	96	75-127	5	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	101	100	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	105	100	80-120	5	30
Trichlorofluoromethane	2	U	2.	5	ug/l	105	99	64-129	6	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	100	99	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	100	98	74-120	2	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	102	99	75-120	3	30
Vinyl Chloride	1	U	1.	5	ug/l	101	94	65-125	7	30
m+p-Xylene	0.8	U	0.8	5	ug/l	104	102	80-120	2	30
o-Xylene	0.8	U	0.8	5	ug/l	103	101	80-120	3	30
Batch number: 11260WAC026	Sample number(s): 6408599									
Acenaphthene	0.010	U	0.010	0.050	ug/l	97	94	74-109	4	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	103	99	70-110	4	30
Anthracene	0.010	U	0.010	0.050	ug/l	110	108	66-111	2	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	102	103	72-114	1	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	95	94	60-127	1	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	107	107	58-151	0	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	117	115	57-131	1	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	95	92	59-130	3	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	74	70	40-138	6	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	107	103	56-148	4	30
Chrysene	0.010	U	0.010	0.050	ug/l	98	98	76-116	0	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	120	118	55-134	2	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	83	80	37-148	3	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	66	58	40-119	13	30
Bis(2-Ethylhexyl)phthalate	0.064	J	0.050	1.0	ug/l	108	108	57-154	0	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	108	106	75-116	2	30
Fluorene	0.010	U	0.010	0.050	ug/l	114	108	75-114	6	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	116	115	53-158	1	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	96	91	71-117	5	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	97	92	75-115	5	30
Naphthalene	0.030	U	0.030	0.050	ug/l	101	97	72-109	4	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	63	61	36-89	2	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	105	102	57-145	3	30
Phenanthrene	0.030	U	0.030	0.050	ug/l	107	102	76-111	4	30
Pyrene	0.010	U	0.010	0.050	ug/l	97	97	69-118	0	30
Batch number: 11264SLB026	Sample number(s): 6408584-6408597									
Acenaphthene	17	U	17.	170	ug/kg	98		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	105		75-122		
Aniline	170 U		170.	500	ug/kg	68		20-115		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266816
Reported: 10/12/11 at 10:46 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Anthracene	17 U		17.	170	ug/kg	105		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	39		15-121		
Benzo(a)anthracene	17 U		17.	170	ug/kg	98		73-112		
Benzo(a)pyrene	17 U		17.	170	ug/kg	112		65-124		
Benzo(b)fluoranthene	17 U		17.	170	ug/kg	123		61-127		
Benzo(g,h,i)perylene	17 U		17.	170	ug/kg	107		60-125		
Benzo(k)fluoranthene	17 U		17.	170	ug/kg	113		67-125		
Benzoic acid	170 U		170.	500	ug/kg	93		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	85		68-111		
4-Bromophenyl-phenylether	17 U		17.	170	ug/kg	105		73-114		
Butylbenzylphthalate	17 U		17.	170	ug/kg	100		75-115		
Di-n-butylphthalate	17 U		17.	170	ug/kg	104		79-112		
Carbazole	17 U		17.	170	ug/kg	102		77-113		
4-Chloro-3-methylphenol	33 U		33.	170	ug/kg	97		74-119		
4-Chloroaniline	67 U		67.	170	ug/kg	58		10-110		
bis(2-Chloroethoxy)methane	17 U		17.	170	ug/kg	98		70-118		
bis(2-Chloroethyl)ether	17 U		17.	170	ug/kg	89		70-104		
bis(2-Chloroisopropyl)ether	17 U		17.	170	ug/kg	72		62-115		
2-Chloronaphthalene	17 U		17.	170	ug/kg	82		49-128		
2-Chlorophenol	17 U		17.	170	ug/kg	94		72-112		
4-Chlorophenyl-phenylether	33 U		33.	170	ug/kg	101		74-115		
Chrysene	17 U		17.	170	ug/kg	102		76-113		
Dibenz(a,h)anthracene	17 U		17.	170	ug/kg	108		61-126		
Dibenzofuran	17 U		17.	170	ug/kg	101		74-116		
1,2-Dichlorobenzene	17 U		17.	170	ug/kg	87		74-99		
1,3-Dichlorobenzene	17 U		17.	170	ug/kg	85		70-98		
1,4-Dichlorobenzene	17 U		17.	170	ug/kg	87		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	62		10-116		
2,4-Dichlorophenol	17 U		17.	170	ug/kg	109		75-111		
Diethylphthalate	17 U		17.	170	ug/kg	102		76-111		
2,4-Dimethylphenol	33 U		33.	170	ug/kg	97		72-111		
3,5-Dimethylphenol	33 U		33.	170	ug/kg	106		83-120		
Dimethylphthalate	17 U		17.	170	ug/kg	103		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	87		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	62		18-133		
2,4-Dinitrotoluene	33 U		33.	170	ug/kg	103		73-115		
2,6-Dinitrotoluene	17 U		17.	170	ug/kg	106		79-115		
1,2-Diphenylhydrazine	17 U		17.	170	ug/kg	100		71-125		
bis(2-Ethylhexyl)phthalate	17 U		17.	330	ug/kg	99		75-117		
Fluoranthene	17 U		17.	170	ug/kg	112		78-116		
Fluorene	17 U		17.	170	ug/kg	102		75-116		
Hexachlorobenzene	17 U		17.	170	ug/kg	96		73-119		
Hexachlorobutadiene	67 U		67.	170	ug/kg	104		65-117		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	84		46-115		
Hexachloroethane	17 U		17.	170	ug/kg	83		61-109		
Indeno(1,2,3-cd)pyrene	17 U		17.	170	ug/kg	105		64-119		
Isophorone	17 U		17.	170	ug/kg	96		69-110		
2-Methylphenol	33 U		33.	170	ug/kg	89		66-110		
4-Methylphenol	33 U		33.	170	ug/kg	82		66-117		
2-Nitroaniline	17 U		17.	170	ug/kg	105		78-116		
3-Nitroaniline	33 U		33.	170	ug/kg	93		62-109		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266816
Reported: 10/12/11 at 10:46 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Nitroaniline	67	U	67.	170	ug/kg	72		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	98		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	103		76-111		
4-Nitrophenol	170 U		170.	500	ug/kg	94		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	82		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	103		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	114		62-137		
Pentachlorophenol	170 U		170.	500	ug/kg	79		51-117		
Phenanthrene	17	U	17.	170	ug/kg	101		77-113		
Phenol	17	U	17.	170	ug/kg	86		58-112		
Pyrene	17	U	17.	170	ug/kg	101		75-115		
Tetralin	170 U		170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	103		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	109*		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	113*		78-111		
Batch number: 11264SLC026	Sample number(s): 6408584-6408597									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	88		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	87		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	107		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	95		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	94		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	114		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	96		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	94		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	100		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	120		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	97		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	98		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	111		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	98		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	92		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	108		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	91		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	97		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	82		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	82		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	81		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	76		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	101		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	101		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	93		72-119		
Batch number: 11264WAA026	Sample number(s): 6408599									
Aniline	1	U	1.	5	ug/l	76	72	38-116	4	30
Benzidine	20	U	20.	60	ug/l	66	61	34-117	8	30
Benzoic acid	6	U	6.	15	ug/l	46	47	10-69	1	30
Benzyl alcohol	5	U	5.	15	ug/l	72	74	66-97	2	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	98	105	75-115	7	30
Carbazole	1	U	1.	5	ug/l	96	100	75-120	4	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	88	93	70-123	6	30
4-Chloroaniline	1	U	1.	5	ug/l	78	70	24-128	11	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	93	99	74-124	6	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	92	93	77-108	0	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	75	76	62-127	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266816
Reported: 10/12/11 at 10:46 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Chloronaphthalene	2	U	2.	5	ug/l	75	77	54-132	3	30
2-Chlorophenol	1	U	1.	5	ug/l	90	91	71-114	0	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	92	98	77-114	6	30
Dibenzofuran	1	U	1.	5	ug/l	91	96	75-117	5	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	90	87	55-118	3	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	89	86	61-111	3	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	90	86	53-119	4	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	70	64	37-117	8	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	98	105	77-117	7	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	91	96	72-110	5	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	95	100	70-130	5	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	101	107	65-126	6	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	95	99	52-131	4	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	94	98	76-119	4	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	96	100	76-118	4	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	94	100	68-127	6	30
Hexachlorobenzene	1	U	1.	5	ug/l	88	95	75-119	7	30
Hexachlorobutadiene	1	U	1.	5	ug/l	102	105	57-124	2	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	72	74	36-118	3	30
Hexachloroethane	1	U	1.	5	ug/l	90	85	52-113	5	30
Isophorone	1	U	1.	5	ug/l	93	101	74-117	8	30
2-Methylphenol	1	U	1.	5	ug/l	79	81	58-110	2	30
4-Methylphenol	2	U	2.	5	ug/l	65	67	49-108	3	30
2-Nitroaniline	1	U	1.	5	ug/l	95	99	75-120	4	30
3-Nitroaniline	1	U	1.	5	ug/l	89	91	74-113	3	30
4-Nitroaniline	1	U	1.	5	ug/l	70	71	59-100	2	30
Nitrobenzene	1	U	1.	5	ug/l	96	101	75-109	5	30
2-Nitrophenol	1	U	1.	5	ug/l	98	106	76-118	8	30
4-Nitrophenol	10	U	10.	30	ug/l	41	44	16-78	6	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	85	88	69-110	3	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	95	102	67-136	7	30
Pentachlorophenol	3	U	3.	15	ug/l	85	90	53-110	6	30
Phenol	1	U	1.	5	ug/l	39	39	21-67	1	30
Tetralin	5	U	5.	5	ug/l					
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	98	102	71-112	4	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	99	102	79-107	3	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	104	107	76-120	3	30
Batch number: 11264WAF026	Sample number(s): 6408599									
N-Nitrosodimethylamine	0.500	U	0.500	1.00	ng/l	119	109	70-130	8	30
Batch number: 11264A34A	Sample number(s): 6408592-6408593									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	75		67-119		
Batch number: 11270C20A	Sample number(s): 6408598-6408599									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	91	100	75-135	10	30
Batch number: 112620022A	Sample number(s): 6408599									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	100	100	80-120	0	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	99	99	80-120	0	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	93	90	50-122	4	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	93	90	50-122	4	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	100	100	72-117	0	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	94	94	80-120	0	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
HMX	0.65	U	0.65	2.0	ug/l	90	88	65-125	2	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	93	93	75-121	0	30
Nitroglycerin	5.2	U	5.2	15	ug/l	96	96	80-120	0	30

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266816
Reported: 10/12/11 at 10:46 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	95	95	74-120	0	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	100	100	69-107	0	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	98	100	80-120	2	30
PETN	6.0	U	6.0	18	ug/l	100	100	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	92	89	70-125	3	30
Tetryl	0.40	U	0.40	0.60	ug/l	97	88	72-141	10	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	100	95	53-129	5	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	76-109	0	30
Batch number: 112590019A	Sample number(s): 6408599									
20b Formaldehyde 8315A	10	U	10.	50	ug/l	98	94	69-130	4	30
Batch number: 112630020A	Sample number(s): 6408599									
2,4-D	0.16	U	0.16	0.50	ug/l	100	104	73-157	4	30
Dalapon	0.25	U	0.25	1.3	ug/l	92	86	40-100	7	30
2,4-DB	0.30	U	0.30	1.0	ug/l	80	92	65-130	14	30
Dicamba	0.080	U	0.080	0.30	ug/l	88	92	68-135	4	30
Dinoseb	0.10	U	0.10	0.50	ug/l	58	60	32-91	4	30
2,4-DP (Dichlorprop)	0.16	U	0.16	0.50	ug/l	116	120	76-170	3	30
MCPA	300 U		300.	1,000	ug/l	84	86	65-128	2	30
MCPP	50	U	50.	200	ug/l	88	88	67-137	0	30
2,4,5-T	0.015	U	0.015	0.050	ug/l	88	92	63-147	4	30
2,4,5-TP	0.010	U	0.010	0.050	ug/l	100	100	63-134	0	30
Batch number: 112650015A	Sample number(s): 6408584-6408591									
2,4-D	1.2	U	1.2	3.6	ug/kg	103		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	76		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	90		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	94		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	5*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	148		62-170		
MCPA	76	U	76.	250	ug/kg	100		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	71		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	100		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	83		68-114		
Batch number: 112600024A	Sample number(s): 6408592-6408597									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	105		85-115		
Batch number: 112630017A	Sample number(s): 6408599									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	82	82	35-84	0	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	102	102	51-128	0	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	110	110	56-135	0	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 112630018A	Sample number(s): 6408599									
Aldrin	0.0020	U	0.0020	0.010	ug/l	111	111	54-159	0	30
Alpha BHC	0.0030	U	0.0030	0.010	ug/l	110	120	59-146	9	30
Beta BHC	0.0029	U	0.0029	0.010	ug/l	124	124	73-147	0	30

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266816
Reported: 10/12/11 at 10:46 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Gamma BHC - Lindane	0.0020	U	0.0020	0.010	ug/l	110	120	68-128	9	30
Chlordane	0.12	U	0.12	0.50	ug/l					
p,p-DDD	0.0050	U	0.0050	0.020	ug/l	115	120	71-139	4	30
p,p-DDE	0.0050	U	0.0050	0.020	ug/l	116	116	66-130	0	30
p,p-DDT	0.0050	U	0.0050	0.020	ug/l	105	105	53-126	0	30
Delta BHC	0.0029	U	0.0029	0.010	ug/l	124	124	76-148	0	30
Dieldrin	0.0053	U	0.0053	0.020	ug/l	115	115	76-132	0	30
Endosulfan I	0.0043	U	0.0043	0.010	ug/l	99	100	68-128	1	30
Endosulfan II	0.015	U	0.015	0.020	ug/l	110	110	59-144	0	30
Endosulfan Sulfate	0.0058	U	0.0058	0.020	ug/l	115	110	71-142	4	30
Endrin	0.0081	U	0.0081	0.020	ug/l	80	100	52-132	22	30
Endrin Aldehyde	0.020	U	0.020	0.10	ug/l	115	110	68-139	4	20
Endrin Ketone	0.0050	U	0.0050	0.020	ug/l	120	105	69-146	13	30
Heptachlor	0.0026	U	0.0026	0.010	ug/l	110	110	57-126	0	30
Heptachlor Epoxide	0.0023	U	0.0023	0.010	ug/l	112	112	73-156	0	30
Methoxychlor	0.030	U	0.030	0.10	ug/l	99	100	52-133	1	30
Mirex	0.085	U	0.085	0.25	ug/l					
Toxaphene	1.0	U	1.0	3.0	ug/l					
Batch number: 112640017A	Sample number(s): 6408584-6408597									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	78	78	36-106	1	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	98		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	108		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112640029A	Sample number(s): 6408584-6408591									
Aldrin	0.066	U	0.066	0.17	ug/kg	58		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	53		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	88		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	59		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	91		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	91		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	92		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	88		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	84		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	56		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	77		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	100		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	82		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	67		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	91		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	59		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	73		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	99		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 112600025A	Sample number(s): 6408584-6408590,6408592-6408593									
Ethanol	100		100.	500	ug/kg	84		71-129		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266816
Reported: 10/12/11 at 10:46 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Isopropanol	100	U	100.	500	ug/kg	87		75-125		
Methanol	100	U	100.	500	ug/kg	91		68-129		
Batch number: 112620010A	Sample number(s): 6408584-6408593									
Diethylene glycol	5.0	U	5.0	10	mg/kg	95		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	99		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	89		67-131		
Batch number: 112620028A	Sample number(s): 6408599									
Ethanol	200	U	200.	1,000	ug/l	108		78-116		
Isopropanol	200	U	200.	1,000	ug/l	104		75-125		
Methanol	200	U	200.	1,000	ug/l	112		76-122		
Batch number: 112630005A	Sample number(s): 6408599									
Diethylene glycol	20	U	20.	200	mg/l	125	75	67-126	50*	20
Ethylene glycol	20	U	20.	200	mg/l	121	79	78-136	42*	20
Propylene glycol	20	U	20.	200	mg/l	125	80	65-132	44*	20
Batch number: 112640035A	Sample number(s): 6408591									
Ethanol	100	U	100.	500	ug/kg	86		71-129		
Isopropanol	100	U	100.	500	ug/kg	86		75-125		
Methanol	100	U	100.	500	ug/kg	88		68-129		
Batch number: 112600007A	Sample number(s): 6408599									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	76	100	63-121	27	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	77	107	72-124	32*	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	77	108	64-123	33*	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	65*	93	73-124	36*	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	68	86	43-107	23	30
Batch number: 112620006A	Sample number(s): 6408599									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	90	88	61-108	2	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	90	88	75-125	2	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	90	88	63-110	2	20
Batch number: 112630012A	Sample number(s): 6408584-6408593									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	91		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	92		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	93		69-109		
Batch number: 112650006A	Sample number(s): 6408584-6408588,6408591-6408593									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	93		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	94		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	100		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	75		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	83		49-107		
Batch number: 112720034A	Sample number(s): 6408589-6408590									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	95		70-123		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266816
Reported: 10/12/11 at 10:46 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
EFH (C15-C20)	0.40 U	0.40	1.2	mg/kg	104		75-128		
EFH (C21-C30)	0.40 U	0.40	1.2	mg/kg	102		64-134		
EFH (C30 - C40)	0.40 U	0.40	1.2	mg/kg	101		65-128		
EFH (C8-C11)	0.40 U	0.40	1.2	mg/kg	88		49-107		
Batch number: 112611848001	Sample number(s): 6408599								
Aluminum	0.0801 U	0.0801	0.200	mg/l	107	104	90-112	3	20
Boron	0.0172 J	0.0022	0.0500	mg/l	103	101	89-110	2	20
Calcium	0.0705 U	0.0705	0.200	mg/l	108	105	90-112	3	20
Iron	0.0141 U	0.0141	0.200	mg/l	107	109	90-112	1	20
Lithium	0.0076 U	0.0076	0.0200	mg/l	109	105	80-120	3	20
Magnesium	0.0198 J	0.0067	0.100	mg/l	107	104	89-110	3	20
Manganese	0.00044 U	0.00044	0.0050	mg/l	109	106	90-110	2	20
Phosphorus	0.0047 U	0.0047	0.100	mg/l	108	105	80-120	3	20
Potassium	0.0874 U	0.0874	0.500	mg/l	106	103	85-115	2	20
Sodium	0.0647 U	0.0647	1.00	mg/l	103	101	87-114	2	20
Strontium	0.00038 J	0.00022	0.0050	mg/l	109	107	90-110	2	20
Tin	0.0043 U	0.0043	0.0200	mg/l	105	102	90-110	2	20
Titanium	0.00046 U	0.00046	0.0100	mg/l	107	104	90-113	3	20
Zirconium	0.0048 J	0.0042	0.0500	mg/l	109	106	80-120	4	20
Batch number: 112616050001A	Sample number(s): 6408599								
Antimony	0.00042 U	0.00042	0.0010	mg/l	108	108	87-110	1	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	99	104	86-111	5	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	106	107	90-113	1	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	101	103	90-114	2	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	105	107	90-118	2	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	99	98	87-113	1	20
Copper	0.00038 U	0.00038	0.0020	mg/l	101	99	90-113	2	20
Lead	0.000080 U	0.00008 0	0.0010	mg/l	106	105	90-115	1	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	104	101	90-113	3	20
Silver	0.000098 U	0.00009 8	0.00050	mg/l	103	103	90-115	1	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	103	106	89-116	3	20
Vanadium	0.00018 U	0.00018	0.00050	mg/l	105	103	89-116	3	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	97	101	90-116	4	20
Batch number: 112616050001B	Sample number(s): 6408599								
Selenium	0.00027 U	0.00027	0.0020	mg/l	108	102	85-114	5	20
Batch number: 112616050001C	Sample number(s): 6408599								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	105	102	89-115	3	20
Batch number: 112616050001D	Sample number(s): 6408599								
Barium	0.00069 U	0.00069	0.0020	mg/l	101	102	88-113	0	20
Batch number: 112631026004A	Sample number(s): 6408584-6408597								
Antimony	0.0725 U	0.0725	0.196	mg/kg	65		10-224		
Arsenic	0.0784 U	0.0784	0.392	mg/kg	109		78-122		
Beryllium	0.0157 U	0.0157	0.0980	mg/kg	105		80-120		
Cadmium	0.0431 U	0.0431	0.0980	mg/kg	108		81-119		
Chromium	0.118 U	0.118	0.392	mg/kg	116		77-123		
Cobalt	0.0196 U	0.0196	0.0980	mg/kg	104		80-119		
Copper	0.0784 U	0.0784	0.392	mg/kg	112		78-122		
Lead	0.0392 J	0.0100	0.196	mg/kg	108		77-123		
Nickel	0.0980 U	0.0980	0.392	mg/kg	109		80-120		
Silver	0.0139 U	0.0139	0.0980	mg/kg	108		66-134		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266816
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Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Thallium	0.0294 U	0.0294	0.0980	mg/kg	107		75-124		
Vanadium	0.0358 J	0.0216	0.0980	mg/kg	119		76-124		
Zinc	0.549 U	0.549	2.94	mg/kg	109		79-121		
Batch number: 112631026004B	Sample number(s): 6408584-6408597								
Selenium	0.0569 U	0.0569	0.392	mg/kg	110		77-123		
Batch number: 112631026004C	Sample number(s): 6408584-6408597								
Molybdenum	0.0490 U	0.0490	0.0980	mg/kg	110		76-123		
Batch number: 112631026004D	Sample number(s): 6408584-6408597								
Barium	0.104 U	0.104	0.392	mg/kg	109		80-120		
Batch number: 112635708005	Sample number(s): 6408584-6408597								
Aluminum	6.05 U	6.05	20.0	mg/kg	133		42-158		
Boron	0.360 U	0.360	5.00	mg/kg	108		66-134		
Calcium	3.59 J	2.50	20.0	mg/kg	103		79-121		
Iron	5.16 J	2.61	20.0	mg/kg	102		51-149		
Lithium	0.62 U	0.62	2.0	mg/kg	102		80-120		
Magnesium	1.01 J	0.440	10.0	mg/kg	120		64-136		
Manganese	0.0680 J	0.0360	0.500	mg/kg	98		78-122		
Phosphorus	1.52 J	0.350	10.0	mg/kg	100		80-120		
Potassium	11.3 U	11.3	50.0	mg/kg	113		69-131		
Sodium	5.95 U	5.95	100	mg/kg	107		71-129		
Strontium	0.0250 U	0.0250	0.500	mg/kg	98		81-119		
Tin	1.60 J	0.320	10.0	mg/kg	92		74-126		
Zirconium	0.460 U	0.460	5.00	mg/kg	102		80-120		
Batch number: 112635711005	Sample number(s): 6408584-6408597								
Mercury	0.0069 U	0.0069	0.0978	mg/kg	104		72-128		
Batch number: 112665713006	Sample number(s): 6408599								
Mercury	0.000026 U	0.00002 6	0.00020	mg/l	91	90	80-120	2	20
Batch number: 112695708002	Sample number(s): 6408584-6408597								
Titanium	0.0710 U	0.0710	1.00	mg/kg	106		80-120		
Batch number: 11259196902C	Sample number(s): 6408599								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	99	98	90-110	1	20
11b Anions by 300.0 - Nitrate	0.050 U	0.050	0.10	mg/l	102	98	90-110	4	20
Batch number: 11259281101A	Sample number(s): 6408599								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	88	96	85-115	8	20
Batch number: 11259281401B	Sample number(s): 6408599								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	99	99	90-110	1	20
Batch number: 11262262201A	Sample number(s): 6408584-6408593								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	90		85-115		
Batch number: 11262262201B	Sample number(s): 6408594-6408597								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	90		85-115		
Batch number: 11264117101B	Sample number(s): 6408599								
16b Cyanide by 9012B	0.0050 U	0.0050	0.010	mg/l	101	102	90-110	1	20
Batch number: 11265102201A	Sample number(s): 6408584-6408592								

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266816
Reported: 10/12/11 at 10:46 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
16a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	102		80-120		
Batch number: 11265495201A	Sample number(s): 6408584-6408593									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	91		90-110		
Batch number: 11265495201B	Sample number(s): 6408594-6408597									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	91		90-110		
Batch number: 11269243201A	Sample number(s): 6408584-6408597									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	93		80-120		
Batch number: 11265020002A	Sample number(s): 6408599									
17b pH by 9040B						100		90-110		
Batch number: 11267039401A	Sample number(s): 6408584-6408592									
17a pH by 9045C						100		95-105		
Batch number: 11267039401B	Sample number(s): 6408593-6408597									
17a pH by 9045C						100		95-105		
Batch number: 11263162402A	Sample number(s): 6408584-6408594									
Moisture Content by 160.3						100		80-120		
Batch number: 11263162402B	Sample number(s): 6408595-6408597									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: E112631AA	Sample number(s): 6408599 UNSPK: P406322								
1,4-Dioxane	89	111	73-138	17	30				
Batch number: 11264SLB026	Sample number(s): 6408584-6408597 UNSPK: 6408584								
Acenaphthene	96	95	75-115	2	30				
Acenaphthylene	101	101	81-110	0	30				
Aniline	50	57	18-116	12	30				
Anthracene	111	102	75-115	9	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	128*	83	65-122	36*	30				
Benzo(a)pyrene	143*	101	57-126	27	30				
Benzo(b)fluoranthene	184*	118	59-125	32*	30				
Benzo(g,h,i)perylene	133*	95	59-127	26	30				
Benzo(k)fluoranthene	120	82	56-132	30	30				
Benzoic acid	54	40	10-173	31*	30				
Benzyl alcohol	89	85	67-115	4	30				
4-Bromophenyl-phenylether	108	105	67-129	3	30				
Butylbenzylphthalate	96	95	73-134	2	30				
Di-n-butylphthalate	102	99	67-123	3	30				
Carbazole	106	93	64-120	12	30				
4-Chloro-3-methylphenol	96	92	62-122	5	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266816
Reported: 10/12/11 at 10:46 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Chloroaniline	28	41	13-107	38*	30				
bis(2-Chloroethoxy)methane	96	94	75-104	2	30				
bis(2-Chloroethyl)ether	89	87	60-116	3	30				
bis(2-Chloroisopropyl)ether	74	71	55-142	4	30				
2-Chloronaphthalene	103	93	50-141	10	30				
2-Chlorophenol	97	94	73-121	4	30				
4-Chlorophenyl-phenylether	99	98	80-109	2	30				
Chrysene	129*	73	62-128	40*	30				
Dibenz(a,h)anthracene	121	105	65-125	14	30				
Dibenzofuran	97	95	71-112	3	30				
1,2-Dichlorobenzene	87	85	66-108	3	30				
1,3-Dichlorobenzene	83	83	63-109	1	30				
1,4-Dichlorobenzene	84	84	58-108	1	30				
3,3'-Dichlorobenzidine	33	55	28-109	52*	30				
2,4-Dichlorophenol	109	103	66-123	6	30				
Diethylphthalate	95	93	66-118	2	30				
2,4-Dimethylphenol	98	94	68-118	5	30				
3,5-Dimethylphenol	101	98	71-127	3	30				
Dimethylphthalate	96	95	64-118	2	30				
4,6-Dinitro-2-methylphenol	75	80	11-126	6	30				
2,4-Dinitrophenol	46	49	20-143	7	30				
2,4-Dinitrotoluene	94	93	56-129	1	30				
2,6-Dinitrotoluene	100	100	69-123	0	30				
1,2-Diphenylhydrazine	108	94	71-129	15	30				
bis(2-Ethylhexyl)phthalate	102	103	63-122	1	30				
Fluoranthene	216*	68*	73-112	61*	30				
Fluorene	99	98	63-121	1	30				
Hexachlorobenzene	94	93	77-114	2	30				
Hexachlorobutadiene	100	100	62-120	0	30				
Hexachlorocyclopentadiene	59	53	10-153	11	30				
Hexachloroethane	79	77	57-109	3	30				
Indeno(1,2,3-cd)pyrene	132*	97	61-126	25	30				
Isophorone	95	92	73-102	4	30				
2-Methylphenol	93	89	75-111	5	30				
4-Methylphenol	85	80	59-123	6	30				
2-Nitroaniline	97	99	67-125	2	30				
3-Nitroaniline	80	86	59-122	7	30				
4-Nitroaniline	73	77	41-109	4	30				
Nitrobenzene	95	95	57-125	1	30				
2-Nitrophenol	103	100	56-127	3	30				
4-Nitrophenol	85	85	37-129	0	30				
N-Nitroso-di-n-propylamine	84	80	60-116	4	30				
N-Nitrosodiphenylamine	102	98	71-122	4	30				
Di-n-octylphthalate	120	121	56-126	1	30				
Pentachlorophenol	84	79	28-127	6	30				
Phenanthrene	155*	82	65-125	45*	30				
Phenol	90	85	58-126	6	30				
Pyrene	196*	66*	74-126	62*	30				
1,2,4-Trichlorobenzene	100	99	72-115	1	30				
2,4,5-Trichlorophenol	104	104	58-129	0	30				
2,4,6-Trichlorophenol	113	113	56-134	1	30				

Batch number: 11264SLC026 Sample number(s): 6408584-6408597 UNSPK: 6408584

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266816
Reported: 10/12/11 at 10:46 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Acenaphthene	219*	89	63-105	63*	30				
Acenaphthylene	96	91	67-114	6	30				
Anthracene	286*	115	73-115	46*	30				
Benzo(a)anthracene	673 (2)	-127 (2)	59-128	63*	30				
Benzo(a)pyrene	464 (2)	-23 (2)	58-142	42*	30				
Benzo(b)fluoranthene	413 (2)	-132 (2)	54-163	29	30				
Benzo(g,h,i)perylene	220*	20 (2)	33-141	39*	30				
Benzo(k)fluoranthene	638 (2)	69 (2)	57-153	58*	30				
Butylbenzylphthalate	240*	115	57-173	64*	30				
Di-n-butylphthalate	65	186*	65-148	61*	30				
Chrysene	636 (2)	-420 (2)	67-123	65*	30				
Dibenz(a,h)anthracene	105	46	22-133	30	30				
Diethylphthalate	108	119	70-136	9	30				
Dimethylphthalate	93	106	74-118	12	30				
Bis(2-Ethylhexyl)phthalate	-476 (2)	-569 (2)	39-167	12	30				
Fluoranthene	164 (2)	-1315 (2)	51-149	48*	30				
Fluorene	149*	100	66-122	31*	30				
Indeno(1,2,3-cd)pyrene	248 (2)	17 (2)	21-143	41*	30				
1-Methylnaphthalene	84	85	72-123	0	30				
2-Methylnaphthalene	81	86	64-103	5	30				
Naphthalene	80	86	61-102	6	30				
N-Nitrosodimethylamine	75	85	48-113	12	30				
Di-n-octylphthalate	135	157	40-192	14	30				
Phenanthrene	986 (2)	-252 (2)	62-122	68*	30				
Pyrene	558 (2)	-1121 (2)	51-131	65*	30				
Batch number: 11264A34A	Sample number(s): 6408592-6408593 UNSPK: P404514								
9a TPH by EPA 8015B Gas C5-C12	118	125*	39-118	6	30				
Batch number: 112650015A	Sample number(s): 6408584-6408591 UNSPK: 6408584								
2,4-D	90	55	17-180	48*	35				
Dalapon	68	39	10-125	55*	50				
2,4-DB	-878 (2)	-850 (2)	10-201	26	50				
Dicamba	105	75	10-190	34	50				
Dinoseb	10	7*	10-46	37*	35				
2,4-DP (Dichlorprop)	116	112	33-178	3	50				
MCPA	45	34	10-213	28	50				
MCPP (Mecoprop)	21	26	10-184	21	50				
2,4,5-T	29	30	10-156	4	35				
2,4,5-TP	69	70	24-141	2	35				
Batch number: 112600024A	Sample number(s): 6408592-6408597 UNSPK: P404355								
6a Perchlorate EPA 6850	106	104	80-120	1	20				
Batch number: 112640017A	Sample number(s): 6408584-6408597 UNSPK: 6408584								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266816
Reported: 10/12/11 at 10:46 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
PCB-1016	97	88	29-146	9	50				
PCB-1260	86	76	39-149	9	50				
Batch number: 112640029A	Sample number(s): 6408584-6408591 UNSPK: 6408586								
Aldrin	61	64	16-126	5	50				
Alpha BHC	59	53	10-129	11	50				
Beta BHC	50	163*	14-147	106*	50				
Gamma BHC - Lindane	82	56	10-140	38	50				
p,p-DDD	199*	136	16-163	38	50				
p,p-DDE	215*	111	18-161	32	50				
p,p-DDT	62 (2)	-72 (2)	10-176	27	50				
Delta BHC	128	72	23-140	56*	50				
Dieldrin	0*	0*	19-154	0	50				
Endosulfan I	0*	253*	16-137	200*	50				
Endosulfan II	300*	163*	28-154	59*	50				
Endosulfan Sulfate	0*	52	21-160	200*	50				
Endrin	88	0*	11-149	200*	50				
Endrin Aldehyde	277*	202*	10-148	32	35				
Endrin Ketone	0*	100	22-165	200*	50				
Heptachlor	76	65	13-126	17	50				
Heptachlor Epoxide	127	112	13-157	13	50				
Methoxychlor	193*	207*	32-147	7	50				
Batch number: 112600025A	Sample number(s): 6408584-6408590,6408592-6408593 UNSPK: 6408584								
Ethanol	90	85	48-130	5	20				
Isopropanol	96	92	12-149	4	20				
Methanol	89	82	43-138	7	20				
Batch number: 112620010A	Sample number(s): 6408584-6408593 UNSPK: P406191								
Diethylene glycol	35*	30*	59-109	17	20				
Ethylene glycol	61*	58*	63-107	6	20				
Propylene glycol	70	68	63-107	2	20				
Batch number: 112620028A	Sample number(s): 6408599 UNSPK: P406083								
Ethanol	108	108	62-145	0	20				
Isopropanol	108	108	73-131	0	20				
Methanol	89	89	52-159	0	20				
Batch number: 112640035A	Sample number(s): 6408591 UNSPK: P409752								
Ethanol	90	90	48-130	1	20				
Isopropanol	94	94	12-149	0	20				
Methanol	97	94	43-138	2	20				
Batch number: 112630012A	Sample number(s): 6408584-6408593 UNSPK: 6408584								
m-Terphenyl	91	92	75-125	2	20				
o-Terphenyl	92	93	75-125	2	20				
p-Terphenyl	93	93	75-125	1	20				
Batch number: 112650006A	Sample number(s): 6408584-6408588,6408591-6408593 UNSPK: 6408584								
EFH (C12-C14)	0*	0*	49-123	0	20				
EFH (C15-C20)	0*	144*	49-123	200*	20				
EFH (C21-C30)	21*	379*	49-123	62*	20				
EFH (C30 - C40)	-1 (2)	618 (2)	49-123	61*	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266816
Reported: 10/12/11 at 10:46 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
EFH (C8-C11)	0*	0*	49-123	0	20				
Batch number: 112720034A	Sample number(s): 6408589-6408590 UNSPK: P414169								
EFH (C12-C14)	93	92	49-123	1	20				
EFH (C15-C20)	91	85	49-123	5	20				
EFH (C21-C30)	119	64	49-123	22*	20				
EFH (C30 - C40)	102	105	49-123	1	20				
EFH (C8-C11)	69	67	49-123	2	20				
Batch number: 112631026004A	Sample number(s): 6408584-6408597 UNSPK: 6408586 BKG: 6408586								
Antimony	38*	32*	75-125	12	20	0.0934 J	0.0881 J	6 (1)	20
Arsenic	122	110	75-125	4	20	2.74	3.45	23*	20
Beryllium	120	96	75-125	13	20	0.439	0.518	17 (1)	20
Cadmium	115	104	75-125	6	20	0.325	0.355	9 (1)	20
Chromium	115	91	75-125	11	20	10.6	12.6	17	20
Cobalt	111	102	75-125	6	20	3.42	4.19	20	20
Copper	128*	103	75-125	10	20	9.85	12.0	20	20
Lead	167 (2)	100 (2)	75-125	9	20	16.7	19.0	13	20
Nickel	117	103	75-125	7	20	7.15	7.94	11	20
Silver	116	105	75-125	8	20	0.0338 J	0.0375 J	10 (1)	20
Thallium	107	109	75-125	2	20	0.279	0.309	10 (1)	20
Vanadium	131*	102	75-125	8	20	19.8	25.1	24*	20
Zinc	-309 (2)	-237 (2)	75-125	4	20	198	146	30*	20
Batch number: 112631026004B	Sample number(s): 6408584-6408597 UNSPK: 6408586 BKG: 6408586								
Selenium	110	104	75-125	4	20	0.0936 J	0.125 J	29* (1)	20
Batch number: 112631026004C	Sample number(s): 6408584-6408597 UNSPK: 6408586 BKG: 6408586								
Molybdenum	112	104	75-125	5	20	0.454	0.568	22* (1)	20
Batch number: 112631026004D	Sample number(s): 6408584-6408597 UNSPK: 6408586 BKG: 6408586								
Barium	232 (2)	107 (2)	75-125	12	20	79.2	96.5	20	20
Batch number: 112635708005	Sample number(s): 6408584-6408597 UNSPK: 6408584 BKG: 6408584								
Aluminum	902 (2)	868 (2)	75-125	0	20	9,780	10,200	5	20
Boron	97	96	84-115	0	20	6.70	6.92	3 (1)	20
Calcium	147 (2)	136 (2)	75-125	1	20	2,240	2,290	2	20
Iron	398 (2)	662 (2)	75-125	2	20	14,400	15,400	6	20
Lithium	97	97	82-114	1	20	21.5	22.4	4	20
Magnesium	146 (2)	302 (2)	75-125	8	20	3,400	3,560	5	20
Manganese	105 (2)	126 (2)	75-125	4	20	205	241	16	20
Phosphorus	91	88	75-125	1	20	349	371	6	20
Potassium	118	120	75-125	1	20	3,050	3,270	7	20
Sodium	95	93	75-125	1	20	64.1 J	70.1 J	9 (1)	20
Strontium	96	94	75-115	1	20	7.71	8.39	8	20
Tin	90	88	80-110	1	20	2.69 J	2.77 J	3 (1)	20
Zirconium	97	95	75-125	2	20	2.09 J	2.57 J	21* (1)	20
Batch number: 112635711005	Sample number(s): 6408584-6408597 UNSPK: 6408585 BKG: 6408585								
Mercury	104	104	65-135	1	20	0.0162 J	0.0186 J	14 (1)	20
Batch number: 112695708002	Sample number(s): 6408584-6408597 UNSPK: 6408584 BKG: 6408584								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266816
Reported: 10/12/11 at 10:46 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Titanium	286 (2)	237 (2)	75-125	4	20	1,070	1,120	5	20
Batch number: 11262262201A	Sample number(s): 6408584-6408593 UNSPK: 6408584 BKG: 6408584								
7a Perchlorate EPA 314.0	88		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11262262201B	Sample number(s): 6408594-6408597 UNSPK: 6408594 BKG: 6408594								
7a Perchlorate EPA 314.0	92		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11265102201A	Sample number(s): 6408584-6408592 UNSPK: 6408584 BKG: 6408584								
16a Cyanide by 9012B	102		75-125			0.18 U	0.17 U	0 (1)	20
Batch number: 11265495201A	Sample number(s): 6408584-6408593 UNSPK: 6408584 BKG: 6408584								
11a Anions by 300.0 - Fluoride	78*		80-120			0.80 U	0.80 U	0 (1)	20
Batch number: 11265495201B	Sample number(s): 6408594-6408597 UNSPK: 6408594 BKG: 6408594								
11a Anions by 300.0 - Fluoride	32*		80-120			2.1	1.4	38* (1)	20
Batch number: 11269243201A	Sample number(s): 6408584-6408597 UNSPK: 6408584 BKG: 6408584								
3a Cr VI by EPA 7199	84		75-125			0.70 J	0.67 J	5 (1)	20
Batch number: 11265020002A	Sample number(s): 6408599 BKG: 6408599								
17b pH by 9040B						5.5	5.5	0	3
Batch number: 11267039401A	Sample number(s): 6408584-6408592 BKG: 6408584								
17a pH by 9045C						6.39	6.40	0	3
Batch number: 11267039401B	Sample number(s): 6408593-6408597 BKG: 6408597								
17a pH by 9045C						6.94	6.95	0	3
Batch number: 11263162402A	Sample number(s): 6408584-6408594 BKG: 6408594								
Moisture Content by 160.3						9.2	9.2	0	20
Batch number: 11263162402B	Sample number(s): 6408595-6408597 BKG: 6408596								
Moisture Content by 160.3						7.6	8.0	5	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E112631AA

	Toluene-d8
6408599	102
Blank	102
LCS	102
MS	102
MSD	102

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266816
Reported: 10/12/11 at 10:46 AM

Surrogate Quality Control

Limits: 80-120

Analysis Name: 1b Volatile Organics EPA8260B
Batch number: L112651AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6408599	98	105	98	98
Blank	98	106	97	98
LCS	97	104	98	100
LCSD	96	101	99	100
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11260WAC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6408599	112	93	110
Blank	109	93	106
LCS	124	99	108
LCSD	125	93	106
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11264SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6408584	96	93	92	89	93	82
6408585	93	92	90	92	91	84
6408586	83	84	90	85	90	81
6408587	91	91	84	86	90	80
6408588	89	89	86	85	90	79
6408589	88	90	87	89	93	79
6408590	88	89	87	88	90	80
6408591	87	89	84	86	90	76
6408592	85	88	86	88	90	79
6408593	86	88	87	85	88	80
6408594	81	80	85	80	86	80
6408595	83	83	86	82	89	81
6408596	81	83	84	83	87	79
6408597	84	85	83	85	87	79
Blank	86	89	77	84	87	78
LCS	92	92	94	95	97	85
MS	95	95	91	91	92	83
MSD	90	92	91	91	94	81
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11264SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6408584	88	86	106
6408585	99	92	107
6408586	97	91	106
6408587	89	83	84

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266816
Reported: 10/12/11 at 10:46 AM

Surrogate Quality Control

6408588	85	83	84
6408589	85	81	81
6408590	95	90	96
6408591	81	77	81
6408592	100	87	94
6408593	96	86	94
6408594	88	82	99
6408595	97	86	98
6408596	96	86	101
6408597	95	85	100
Blank	91	83	98
LCS	100	86	99
MS	89	89	129
MSD	92	89	112
Limits:	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11264WAA026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6408599	58	37	91	94	93	81
Blank	53	32	93	98	94	83
LCS	62	40	86	91	89	77
LCSD	62	40	90	97	93	83
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 21b NDMA by 1625C
Batch number: 11264WAF026

	N-Nitrosodimethylamine-d6
6408599	179*
Blank	66
LCS	71
LCSD	93
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11264A34A

	Trifluorotoluene-F
6408592	80
6408593	88
Blank	95
LCS	96
MS	128*
MSD	135*
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11270C20A

	Trifluorotoluene-F

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266816
Reported: 10/12/11 at 10:46 AM

Surrogate Quality Control

6408598	87
6408599	88
Blank	90
LCS	112
LCSD	112
Limits:	63-135

Analysis Name: 20b Formaldehyde 8315A
Batch number: 112590019A

	Butyraldehyde
6408599	111
Blank	101
LCS	98
LCSD	100
Limits:	45-145

Analysis Name: 15b Energetics by 8330A
Batch number: 112620022A

	2-Nitro-m-xylene
6408599	93
Blank	97
LCS	100
LCSD	100
Limits:	50-134

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 112630017A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6408599	127	120
Blank	112	111
LCS	117	112
LCSD	110	114
Limits:	30-150	45-120

Analysis Name: 12b Pesticides by 8081A
Batch number: 112630018A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6408599	105	95
Blank	98	105
LCS	109	109
LCSD	112	87
Limits:	52-141	40-144

Analysis Name: 13b Herbicides by EPA 8151
Batch number: 112630020A

	2,4-Dichlorophenylacetic acid

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266816
Reported: 10/12/11 at 10:46 AM

Surrogate Quality Control

6408599	66	
Blank	72	
LCS	83	
LCSD	86	
Limits:	35-144	

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112640017A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6408584	110	124*
6408585	122	194*
6408586	99	128*
6408587	97	102
6408588	101	81
6408589	113	92
6408590	94	91
6408591	102	151*
6408592	92	99
6408593	104	109
6408594	101	100
6408595	104	103
6408596	95	94
6408597	102	103
Blank	106	112
LCS	109	109
LCSD	85	109
MS	106	125*
MSD	96	101
Limits:	53-139	45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 112640029A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6408584	62	375*
6408585	64	501*
6408586	61	932*
6408587	72	114
6408588	65	142
6408589	51	149
6408590	60	79
6408591	61	103
Blank	48*	108
LCS	53	96
MS	70	960*
MSD	56	312*
Limits:	50-130	20-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 112650015A

	2,4-Dichlorophenylacetic acid

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266816
Reported: 10/12/11 at 10:46 AM

Surrogate Quality Control

6408584	130
6408585	91
6408586	91
6408587	107
6408588	117
6408589	75
6408590	85
6408591	92
Blank	100
LCS	103
MS	94
MSD	84
Limits:	36-156

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 112600007A

	Chlorobenzene	Orthoterphenyl
6408599	74	88
Blank	85	95
LCS	66	76
LCSD	80	99
Limits:	28-152	52-131

Analysis Name: 18a Alcohols by 8015B
Batch number: 112600025A

	Acetone
6408584	129
6408585	112
6408586	131
6408587	136
6408588	99
6408589	114
6408590	124
6408592	98
6408593	105
Blank	107
LCS	101
MS	121
MSD	123
Limits:	42-138

Analysis Name: 22b Terphenyls by 8015B
Batch number: 112620006A

	n-Triacontane-d62
6408599	67
Blank	68
LCS	68
LCSD	65
Limits:	17-138

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266816
Reported: 10/12/11 at 10:46 AM

Surrogate Quality Control

Analysis Name: 19a Glycols by 8015B
Batch number: 112620010A

	Tetramethylene glycol
6408584	81
6408585	86
6408586	82
6408587	80
6408588	84
6408589	83
6408590	83
6408591	87
6408592	75
6408593	79
Blank	85
LCS	93
MS	81
MSD	84
Limits:	29-137

Analysis Name: 18b Alcohols by 8015B
Batch number: 112620028A

	Acetone
6408599	116
Blank	112
LCS	113
MS	109
MSD	115
Limits:	54-147

Analysis Name: 19b Glycols by 8015B
Batch number: 112630005A

	Tetramethylene glycol
6408599	121
Blank	36
LCS	124
LCSD	70
Limits:	29-157

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112630012A

	n-Triacontane-d62
6408584	82
6408585	77
6408586	84
6408587	85
6408588	26
6408589	80
6408590	79
6408591	19
6408592	66

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266816
Reported: 10/12/11 at 10:46 AM

Surrogate Quality Control

6408593	65
Blank	69
LCS	68
MS	83
MSD	85
Limits:	19-152

Analysis Name: 18a Alcohols by 8015B
Batch number: 112640035A

	Acetone
6408591	79
Blank	99
LCS	94
MS	106
MSD	107
Limits:	42-138

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112650006A

	Chlorobenzene	Orthoterphenyl
6408584	51	61
6408585	83	103
6408586	72	187*
6408587	87	109
6408588	85	105
6408591	90	105
6408592	79	93
6408593	80	99
Blank	85	101
LCS	87	99
MS	23*	26*
MSD	47	57
Limits:	37-125	47-145

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112720034A

	Chlorobenzene	Orthoterphenyl
6408589	78	102
6408590	75	94
Blank	75	94
LCS	80	97
MS	80	96
MSD	76	95
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1266816 Sample# 6408584-99

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
‡ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subunits 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signature:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/7000B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 8950 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dioxins/ EPA 8270	Other Instructions and Notes
SL-010-SA7-SB-0.0-0.5	09.15.11	1010	SOIL	NONE	1-SS Sleeve			X	X																		
SL-010-SA7-SB-0.0-0.5	09.15.11	1010	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-018-SA7-SB-0.0-0.5	09.15.11	0830	SOIL	NONE	1-SS Sleeve			X	X																		
SL-018-SA7-SB-0.0-0.5	09.15.11	0830	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-091-SA7-SB-0.0-0.5	09.15.11	1135	SOIL	NONE	1-SS Sleeve			X	X																		
SL-091-SA7-SB-0.0-0.5	09.15.11	1135	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-096-SA7-SB-0.0-0.5	09.15.11	0855	SOIL	NONE	1-SS Sleeve			X	X																		
SL-096-SA7-SB-0.0-0.5	09.15.11	0855	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-026-SA7-SB-0.0-0.5	09.14.11	1535	SOIL	NONE	1-SS Sleeve			X	X																		Collected 9/14/11
SL-026-SA7-SB-0.0-0.5	09.14.11	1535	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											Collected 9/14/11

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	09/16/2011 / 1600		Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**	
Brandy Barclay 910	9-16-11	8754 3341 6518,6529,6507,6492	

Sample SL-026-SA7-SB-0.0-0.5 ~~was~~ wasn't received until 9/17/11. It is entered in LLI group 1266997 and 1266998 (dioxins). NLM 9/21/11

acct #13013 Gp# 1266816 samp6# 6408584-99

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 8 (SA8) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs TPH GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015M	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowcmel EPA 8270	Other Instructions and Notes
SL-037-SA7-SB-4.5	09.15.11	0904	SOIL	NONE	2-Encores										X											
SL-037-SA7-SB-4.0-5.0	09.15.11	0903	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X		X					X	X	X	X		
[redacted]																										
[redacted]																										
SL-061-SA7-SB-4.0-5.0	09.15.11	1220	SOIL	NONE	2-16 oz Jars										X											Primary only per PH. NM 9/21/11
SL-061-SA7-SB-9.0-10.0	09.15.11	1224	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X	X												
[redacted]																										
[redacted]																										
TB-091511	09.15.11	0800	WATER	NONE	2-10mL vials										X											

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	09/15/2011 / 1600		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
Brandy Burley 910	9-16-11	8754 3341 6518,6529,6507,6492	

acct#13013 Ap# 1266816 sample# 6408584-99

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Eaccras were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Diox/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-DRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terpenes/s EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dioxins/f EPA 8270	Other Instructions and Notes
EB-SA7-SS-091511	09.15.11	1300	WATER	NONE	10-1 liter ambers			X	X	X								X			X	X		X						**Geoprobe EB
EB-SA7-SS-091511	09.15.11	1300	WATER	NONE	1-500 mL poly		X				X	X	X																	
EB-SA7-SS-091511	09.15.11	1300	WATER	HNO3	1-500 mL poly	X																								
EB-SA7-SS-091511	09.15.11	1300	WATER	NaOH	1-500 mL glass																		X							
EB-SA7-SS-091511	09.15.11	1300	WATER	NONE	1-250 mL glass															X										
EB-SA7-SS-091511	09.15.11	1300	WATER	HCl	11-40 mL vials										X	X	X									X		X		
EB-SA7-SS-091511	09.15.11	1300	WATER	NONE	4-40 mL vials														X						X		X			

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	09/15/2011 / 1900		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
	9-16-11	8754 3341 6518,6529,6507,6492	

Brennan 910

Tamara J. Helsel

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Friday, September 16, 2011 10:08 AM
To: Tamara J. Helsel
Subject: RE: SSFL COC 9/15/11

Just do primary for all samples. The TPH should not be selected, sorry for the inaccurate COC!

-- Sent from my Palm Pre

On Sep 15, 2011 5:41 PM, Tamara J. Helsel <THelsel@lancasterlabs.com> wrote:

Could you possibly take a look at SL-081-SA7-SB-4.0-5.0, SL-081-SA7-SB-9.0-10.0, SL-183-SA7-SB-4.0-5.0, and SL-183-SB-9.0-10.0?
We do not have any encores for the GRO on SL-081-SA7-SB-4.0-5.0, and SL-183-SA7-SB-4.0-5.0, they are marked as having 2 16 oz jars. Should these be 4 separate samples with the primary analyses and GRO on all of them or should the 4.0-5.0 depths really just be for GRO and the 9.0-10.0 depths be just for Primary?

Thanks,
Tammy

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Thursday, September 15, 2011 6:58 PM
To: Burgesser, Todd; Bloisa, Peggy; 'Laura Rainey'; Nicole Maljovec; SA Env Entry; TWallbom@dtsc.ca.gov; Zakowski, Cherie
Subject: SSFL COC 9/15/11

Subsurface and surface sampling continued in SA7 today. See attached COC.

Thanks,

Pam

CONFIDENTIAL MATERIAL: This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If received in error, please notify sender by return e-mail and destroy all copies of the original transmission and any attachments. Thank you.

If you wish to view information about Lancaster Laboratories, Inc., please visit our website at www.lancasterlabs.com<http://www.lancasterlabs.com>

Nicole Maljovec

From: Nicole Maljovec
Sent: Friday, September 16, 2011 6:41 PM
To: 'Hartman, Pamela'
Subject: RE: SSFL COC 9/15/11

Hi Pam,
The surface samples from the 15th have SB on the COC, but I'm guessing it should be SS. I spot checked one of the sample labels and it was SS. I'm going to go ahead and make the update.

Let me know if it needs to stay SB.

Thanks,
Nicole

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Thursday, September 15, 2011 6:58 PM
To: Burgesser, Todd; Bloisa, Peggy; 'Laura Rainey'; Nicole Maljovec; SA Env Entry; TWallbom@dtsc.ca.gov; Zakowski, Cherie
Subject: SSFL COC 9/15/11

Subsurface and surface sampling continued in SA7 today. See attached COC.

Thanks,

Pam

Nicole Maljovec

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Thursday, September 22, 2011 2:22 PM
To: Nicole Maljovec
Subject: Sample Name Mistake

Follow Up Flag: Follow up
Flag Status: Red

Hi Nicole

I just found a mistake on my EB sample name from last week. The sample sent on 9/15/11 called "EB-SA7-SS-091511" is supposed to be "EB-SA7-SB-091511". I think it was also checked so Pest/Herb, so we might have some extra results there..

Thanks

Pam

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

September 29, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/16/2011
Group Number: 1266823
SDG: DX135
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-010-SA7-SS-0.0-0.5 Soil	6408610
SL-014-SA7-SS-0.0-0.5 Soil	6408611
SL-018-SA7-SS-0.0-0.5 Soil	6408612
SL-021-SA7-SS-0.0-0.5 Soil	6408613
SL-091-SA7-SS-0.0-0.5 Soil	6408614
SL-092-SA7-SS-0.0-0.5 Soil	6408615
SL-096-SA7-SS-0.0-0.5 Soil	6408616
SL-097-SA7-SS-0.0-0.5 Soil	6408617
SL-037-SA7-SB-4.0-5.0 Soil	6408618
SL-070-SA7-SB-3.0-4.0 Soil	6408619
SL-081-SA7-SB-4.0-5.0 Soil	6408620
SL-081-SA7-SB-9.0-10.0 Soil	6408621
SL-183-SA7-SB-4.0-5.0 Soil	6408622
SL-183-SA7-SB-9.0-10.0 Soil	6408623
EB-SA7-SB-091511 Water	6408624

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-010-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA7-SS-0.0-0.5

LLI Sample # SW 6408610
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 10:10

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3507 SDG#: DX135-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.76	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-010-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA7-SS-0.0-0.5

LLI Sample # SW 6408610
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 10:10

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3507 SDG#: DX135-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.133	JQ	0.0605	0.990	1
11031	12378-PeCDD	40321-76-4	0.923	J	0.0675	4.95	1
11031	123478-HxCDD	39227-28-6	1.46	J	0.0832	4.95	1
11031	123678-HxCDD	57653-85-7	3.52	J	0.0820	4.95	1
11031	123789-HxCDD	19408-74-3	2.54	JB	0.0737	4.95	1
11031	1234678-HpCDD	35822-46-9	87.5	B	0.156	4.95	1
11031	OCDD	3268-87-9	973	B	0.170	9.90	1
11031	2378-TCDF	51207-31-9	0.277	JQ	0.0670	0.990	1
11031	12378-PeCDF	57117-41-6	0.200	JQ	0.0436	4.95	1
11031	23478-PeCDF	57117-31-4	0.746	JB	0.0419	4.95	1
11031	123478-HxCDF	70648-26-9	0.0922	U	0.0922	4.95	1
11031	123678-HxCDF	57117-44-9	0.605	JBQ	0.0794	4.95	1
11031	123789-HxCDF	72918-21-9	0.411	JB	0.0554	4.95	1
11031	234678-HxCDF	60851-34-5	0.900	JB	0.0484	4.95	1
11031	1234678-HpCDF	67562-39-4	12.5	B	0.0842	4.95	1
11031	1234789-HpCDF	55673-89-7	1.38	JQ	0.0725	4.95	1
11031	OCDF	39001-02-0	25.6	B	0.0703	9.90	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	39	26 - 152
13C12-123678-HxCDF	46	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	52	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	66	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-010-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA7-SS-0.0-0.5

LLI Sample # SW 6408610
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 10:10

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

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Chantilly VA 20151

X3507 SDG#: DX135-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-010-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA7-SS-0.0-0.5

LLI Sample # SW 6408610
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 10:10

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3507 SDG#: DX135-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11266001	09/26/2011 20:03	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11266001	09/24/2011 10:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162402A	09/20/2011 20:35	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-014-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA7-SS-0.0-0.5

LLI Sample # SW 6408611
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 09:40

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

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X3508 SDG#: DX135-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-014-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA7-SS-0.0-0.5

LLI Sample # SW 6408611
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 09:40

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
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X3508 SDG#: DX135-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	2.68	0.0905	1.00	1
11031	12378-PeCDD	40321-76-4	3.84 J	0.127	5.02	1
11031	123478-HxCDD	39227-28-6	8.36	0.123	5.02	1
11031	123678-HxCDD	57653-85-7	60.6	0.122	5.02	1
11031	123789-HxCDD	19408-74-3	16.6 B	0.102	5.02	1
11031	1234678-HpCDD	35822-46-9	842 B	0.454	5.02	1
11031	OCDD	3268-87-9	34,900 EB	0.417	10.0	1
11031	2378-TCDF	51207-31-9	4.82 C	0.166	1.00	1
11031	12378-PeCDF	57117-41-6	4.98 J	0.146	5.02	1
11031	23478-PeCDF	57117-31-4	11.7 B	0.132	5.02	1
11031	123478-HxCDF	70648-26-9	23.5 B	0.161	5.02	1
11031	123678-HxCDF	57117-44-9	6.06 B	0.150	5.02	1
11031	123789-HxCDF	72918-21-9	5.62 B	0.137	5.02	1
11031	234678-HxCDF	60851-34-5	7.28 B	0.127	5.02	1
11031	1234678-HpCDF	67562-39-4	132 B	0.120	5.02	1
11031	1234789-HpCDF	55673-89-7	7.70	0.144	5.02	1
11031	OCDF	39001-02-0	704 B	0.106	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	95	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	120	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	81	17 - 157

*=This limit was used in the evaluation of the final result

Sample Description: **SL-014-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA7-SS-0.0-0.5

LLI Sample # SW 6408611
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 09:40

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

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Chantilly VA 20151

X3508 SDG#: DX135-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-014-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA7-SS-0.0-0.5

LLI Sample # SW 6408611
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 09:40

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3508 SDG#: DX135-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11266001	09/26/2011 21:00	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11266001	09/24/2011 10:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162402A	09/20/2011 20:35	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-018-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA7-SS-0.0-0.5

LLI Sample # SW 6408612
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 08:30

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
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Chantilly VA 20151

X3509 SDG#: DX135-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.92	0.50	0.50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-018-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA7-SS-0.0-0.5

LLI Sample # SW 6408612
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 08:30

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
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X3509 SDG#: DX135-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.624 J	0.0738	0.973	1
11031	12378-PeCDD	40321-76-4	5.05	0.124	4.87	1
11031	123478-HxCDD	39227-28-6	12.6	0.130	4.87	1
11031	123678-HxCDD	57653-85-7	33.2	0.128	4.87	1
11031	123789-HxCDD	19408-74-3	18.8 B	0.131	4.87	1
11031	1234678-HpCDD	35822-46-9	1,020 B	0.387	4.87	1
11031	OCDD	3268-87-9	12,200 EB	0.303	9.73	1
11031	2378-TCDF	51207-31-9	0.684 JQ	0.0948	0.973	1
11031	12378-PeCDF	57117-41-6	1.47 J	0.0589	4.87	1
11031	23478-PeCDF	57117-31-4	2.64 JB	0.0535	4.87	1
11031	123478-HxCDF	70648-26-9	13.1 B	0.101	4.87	1
11031	123678-HxCDF	57117-44-9	5.69 B	0.0943	4.87	1
11031	123789-HxCDF	72918-21-9	5.29 B	0.0868	4.87	1
11031	234678-HxCDF	60851-34-5	7.55 B	0.0853	4.87	1
11031	1234678-HpCDF	67562-39-4	171 B	0.111	4.87	1
11031	1234789-HpCDF	55673-89-7	18.1	0.138	4.87	1
11031	OCDF	39001-02-0	317 B	0.0881	9.73	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	90	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	92	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	94	23 - 140
13C12-OCDD	126	17 - 157
13C12-2378-TCDF	95	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	89	28 - 136
13C12-123789-HxCDF	103	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	90	26 - 138
13C12-OCDF	99	17 - 157

*=This limit was used in the evaluation of the final result

Sample Description: **SL-018-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA7-SS-0.0-0.5

LLI Sample # SW 6408612
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 08:30

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3509 SDG#: DX135-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-018-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA7-SS-0.0-0.5

LLI Sample # SW 6408612
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 08:30

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3509 SDG#: DX135-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11266001	09/27/2011 00:59	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11266001	09/24/2011 10:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162402A	09/20/2011 20:35	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-021-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA7-SS-0.0-0.5

LLI Sample # SW 6408613
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 07:50

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3510 SDG#: DX135-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-021-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA7-SS-0.0-0.5

LLI Sample # SW 6408613
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 07:50

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3510 SDG#: DX135-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.228	JQ	0.0683	1.00	1
11031	12378-PeCDD	40321-76-4	1.21	J	0.0816	5.01	1
11031	123478-HxCDD	39227-28-6	2.81	J	0.0952	5.01	1
11031	123678-HxCDD	57653-85-7	8.36		0.0948	5.01	1
11031	123789-HxCDD	19408-74-3	4.34	JB	0.0812	5.01	1
11031	1234678-HpCDD	35822-46-9	235	B	0.255	5.01	1
11031	OCDD	3268-87-9	5,050	EB	0.295	10.0	1
11031	2378-TCDF	51207-31-9	0.630	J	0.106	1.00	1
11031	12378-PeCDF	57117-41-6	1.29	J	0.0707	5.01	1
11031	23478-PeCDF	57117-31-4	2.51	JB	0.0662	5.01	1
11031	123478-HxCDF	70648-26-9	6.03	B	0.0999	5.01	1
11031	123678-HxCDF	57117-44-9	2.84	JB	0.0926	5.01	1
11031	123789-HxCDF	72918-21-9	3.10	JB	0.0814	5.01	1
11031	234678-HxCDF	60851-34-5	3.64	JB	0.0819	5.01	1
11031	1234678-HpCDF	67562-39-4	72.7	B	0.103	5.01	1
11031	1234789-HpCDF	55673-89-7	5.77		0.135	5.01	1
11031	OCDF	39001-02-0	116	B	0.117	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	98	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	85	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	91	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	78	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-021-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA7-SS-0.0-0.5

LLI Sample # SW 6408613
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 07:50

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3510 SDG#: DX135-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-021-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA7-SS-0.0-0.5

LLI Sample # SW 6408613
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 07:50

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3510 SDG#: DX135-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11266001	09/27/2011 01:56	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11266001	09/24/2011 10:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162402A	09/20/2011 20:35	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-091-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA7-SS-0.0-0.5

LLI Sample # SW 6408614
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 11:35

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3511 SDG#: DX135-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.66	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-091-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA7-SS-0.0-0.5

LLI Sample # SW 6408614
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 11:35

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3511 SDG#: DX135-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.109	JQ	0.0590	0.971	1
11031	12378-PeCDD	40321-76-4	0.588	J	0.0582	4.85	1
11031	123478-HxCDD	39227-28-6	1.10	J	0.0757	4.85	1
11031	123678-HxCDD	57653-85-7	2.84	J	0.0754	4.85	1
11031	123789-HxCDD	19408-74-3	1.83	JB	0.0600	4.85	1
11031	1234678-HpCDD	35822-46-9	60.8	B	0.133	4.85	1
11031	OCDD	3268-87-9	573	B	0.153	9.71	1
11031	2378-TCDF	51207-31-9	0.395	J	0.0707	0.971	1
11031	12378-PeCDF	57117-41-6	0.228	JQ	0.0444	4.85	1
11031	23478-PeCDF	57117-31-4	0.0386	U	0.0386	4.85	1
11031	123478-HxCDF	70648-26-9	1.09	JBQ	0.0996	4.85	1
11031	123678-HxCDF	57117-44-9	0.666	JBQ	0.0993	4.85	1
11031	123789-HxCDF	72918-21-9	0.241	JB	0.0394	4.85	1
11031	234678-HxCDF	60851-34-5	0.700	JBQ	0.0390	4.85	1
11031	1234678-HpCDF	67562-39-4	10.8	B	0.102	4.85	1
11031	1234789-HpCDF	55673-89-7	0.818	J	0.0705	4.85	1
11031	OCDF	39001-02-0	18.4	B	0.0673	9.71	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	94	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	33	26 - 152
13C12-123678-HxCDF	33	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	94	29 - 147
13C12-1234678-HpCDF	43	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	75	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-091-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA7-SS-0.0-0.5

LLI Sample # SW 6408614
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 11:35

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3511 SDG#: DX135-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-091-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA7-SS-0.0-0.5

LLI Sample # SW 6408614
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 11:35

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3511 SDG#: DX135-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11266001	09/27/2011 02:52	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11266001	09/24/2011 10:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162402A	09/20/2011 20:35	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-092-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA7-SS-0.0-0.5

LLI Sample # SW 6408615
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 10:45

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3512 SDG#: DX135-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.86	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-092-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-092-SA7-SS-0.0-0.5

LLI Sample # SW 6408615
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 10:45

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3512 SDG#: DX135-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.186	JQ	0.0608	1.00	1
11031	12378-PeCDD	40321-76-4	1.06	J	0.0707	5.01	1
11031	123478-HxCDD	39227-28-6	1.73	J	0.0805	5.01	1
11031	123678-HxCDD	57653-85-7	5.65		0.0843	5.01	1
11031	123789-HxCDD	19408-74-3	3.24	JB	0.0658	5.01	1
11031	1234678-HpCDD	35822-46-9	154	B	0.190	5.01	1
11031	OCDD	3268-87-9	1,650	B	0.176	10.0	1
11031	2378-TCDF	51207-31-9	0.571	J	0.0739	1.00	1
11031	12378-PeCDF	57117-41-6	0.489	J	0.0450	5.01	1
11031	23478-PeCDF	57117-31-4	1.46	JB	0.0419	5.01	1
11031	123478-HxCDF	70648-26-9	1.66	JB	0.0749	5.01	1
11031	123678-HxCDF	57117-44-9	1.11	JB	0.0704	5.01	1
11031	123789-HxCDF	72918-21-9	0.641	JBQ	0.0581	5.01	1
11031	234678-HxCDF	60851-34-5	1.43	JB	0.0546	5.01	1
11031	1234678-HpCDF	67562-39-4	21.1	B	0.0665	5.01	1
11031	1234789-HpCDF	55673-89-7	1.95	J	0.0865	5.01	1
11031	OCDF	39001-02-0	41.2	B	0.0714	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	89	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	73	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-092-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA7-SS-0.0-0.5

LLI Sample # SW 6408615
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 10:45

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3512 SDG#: DX135-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-092-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-092-SA7-SS-0.0-0.5

LLI Sample # SW 6408615
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 10:45

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3512 SDG#: DX135-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11266001	09/27/2011 03:49	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11266001	09/24/2011 10:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162402A	09/20/2011 20:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-096-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA7-SS-0.0-0.5

LLI Sample # SW 6408616
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 08:55

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3513 SDG#: DX135-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.90	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-096-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA7-SS-0.0-0.5

LLI Sample # SW 6408616
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 08:55

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3513 SDG#: DX135-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0580	U	0.0580	0.996	1
11031	12378-PeCDD	40321-76-4	0.646	J	0.0737	4.98	1
11031	123478-HxCDD	39227-28-6	1.13	J	0.0809	4.98	1
11031	123678-HxCDD	57653-85-7	3.90	J	0.0849	4.98	1
11031	123789-HxCDD	19408-74-3	2.24	JB	0.0647	4.98	1
11031	1234678-HpCDD	35822-46-9	95.2	B	0.169	4.98	1
11031	OCDD	3268-87-9	1,290	B	0.177	9.96	1
11031	2378-TCDF	51207-31-9	0.530	J	0.0940	0.996	1
11031	12378-PeCDF	57117-41-6	0.447	JQ	0.0520	4.98	1
11031	23478-PeCDF	57117-31-4	1.46	JB	0.0485	4.98	1
11031	123478-HxCDF	70648-26-9	1.21	JB	0.0741	4.98	1
11031	123678-HxCDF	57117-44-9	0.870	JB	0.0659	4.98	1
11031	123789-HxCDF	72918-21-9	0.761	JB	0.0480	4.98	1
11031	234678-HxCDF	60851-34-5	1.04	JB	0.0472	4.98	1
11031	1234678-HpCDF	67562-39-4	14.1	B	0.0658	4.98	1
11031	1234789-HpCDF	55673-89-7	1.54	J	0.0856	4.98	1
11031	OCDF	39001-02-0	32.9	B	0.0734	9.96	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	99	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	51	26 - 152
13C12-123678-HxCDF	57	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	68	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-096-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA7-SS-0.0-0.5

LLI Sample # SW 6408616
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 08:55

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3513 SDG#: DX135-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-096-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA7-SS-0.0-0.5

LLI Sample # SW 6408616
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 08:55

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3513 SDG#: DX135-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11266001	09/27/2011 04:45	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11266001	09/24/2011 10:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162402A	09/20/2011 20:35	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-097-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-097-SA7-SS-0.0-0.5

LLI Sample # SW 6408617
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 08:10

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3514 SDG#: DX135-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-097-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-097-SA7-SS-0.0-0.5

LLI Sample # SW 6408617
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 08:10

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3514 SDG#: DX135-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.395 J	0.0736	1.01	1
11031	12378-PeCDD	40321-76-4	2.89 J	0.0997	5.04	1
11031	123478-HxCDD	39227-28-6	7.81	0.136	5.04	1
11031	123678-HxCDD	57653-85-7	29.2	0.135	5.04	1
11031	123789-HxCDD	19408-74-3	11.7 B	0.111	5.04	1
11031	1234678-HpCDD	35822-46-9	811 B	0.410	5.04	1
11031	OCDD	3268-87-9	19,100 EB	0.414	10.1	1
11031	2378-TCDF	51207-31-9	1.09 C	0.126	1.01	1
11031	12378-PeCDF	57117-41-6	3.11 J	0.0860	5.04	1
11031	23478-PeCDF	57117-31-4	6.87 B	0.0760	5.04	1
11031	123478-HxCDF	70648-26-9	20.1 B	0.121	5.04	1
11031	123678-HxCDF	57117-44-9	9.37 B	0.114	5.04	1
11031	123789-HxCDF	72918-21-9	11.3 B	0.106	5.04	1
11031	234678-HxCDF	60851-34-5	13.6 B	0.107	5.04	1
11031	1234678-HpCDF	67562-39-4	288 B	0.136	5.04	1
11031	1234789-HpCDF	55673-89-7	22.6	0.186	5.04	1
11031	OCDF	39001-02-0	461 B	0.118	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	95	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	110	17 - 157
13C12-2378-TCDF	85	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	88	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	77	26 - 138

*=This limit was used in the evaluation of the final result

Sample Description: **SL-097-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-097-SA7-SS-0.0-0.5

LLI Sample # SW 6408617
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 08:10

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3514 SDG#: DX135-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-OCDF	77	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-097-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-097-SA7-SS-0.0-0.5

LLI Sample # SW 6408617
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 08:10

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3514 SDG#: DX135-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11266001	09/27/2011 05:42	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11266001	09/24/2011 10:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162402A	09/20/2011 20:35	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-037-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA7-SB-4.0-5.0

LLI Sample # SW 6408618
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 09:03

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3515 SDG#: DX135-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-037-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA7-SB-4.0-5.0

LLI Sample # SW 6408618
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 09:03

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X3515 SDG#: DX135-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0680	U	0.0680	1.09	1
11031	12378-PeCDD	40321-76-4	0.0460	U	0.0460	5.45	1
11031	123478-HxCDD	39227-28-6	0.0350	U	0.0350	5.45	1
11031	123678-HxCDD	57653-85-7	0.0355	U	0.0355	5.45	1
11031	123789-HxCDD	19408-74-3	0.0680	JBQ	0.0298	5.45	1
11031	1234678-HpCDD	35822-46-9	0.355	JBQ	0.0667	5.45	1
11031	OCDD	3268-87-9	3.84	JB	0.0827	10.9	1
11031	2378-TCDF	51207-31-9	0.0558	JQ	0.0479	1.09	1
11031	12378-PeCDF	57117-41-6	0.0281	JQ	0.0276	5.45	1
11031	23478-PeCDF	57117-31-4	0.0640	JBQ	0.0271	5.45	1
11031	123478-HxCDF	70648-26-9	0.0309	U	0.0309	5.45	1
11031	123678-HxCDF	57117-44-9	0.0337	JB	0.0268	5.45	1
11031	123789-HxCDF	72918-21-9	0.0333	JBQ	0.0319	5.45	1
11031	234678-HxCDF	60851-34-5	0.0279	U	0.0279	5.45	1
11031	1234678-HpCDF	67562-39-4	0.151	JBQ	0.0333	5.45	1
11031	1234789-HpCDF	55673-89-7	0.0583	U	0.0583	5.45	1
11031	OCDF	39001-02-0	0.251	JBQ	0.0862	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	65	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	55	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-037-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA7-SB-4.0-5.0

LLI Sample # SW 6408618
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 09:03

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3515 SDG#: DX135-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-037-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA7-SB-4.0-5.0

LLI Sample # SW 6408618
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 09:03

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3515 SDG#: DX135-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11266001	09/27/2011 06:39	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11266001	09/24/2011 10:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162402A	09/20/2011 20:35	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-070-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-070-SA7-SB-3.0-4.0

LLI Sample # SW 6408619
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 10:14

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3516 SDG#: DX135-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-070-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA7-SB-3.0-4.0

LLI Sample # SW 6408619
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 10:14

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3516 SDG#: DX135-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0691	U	0.0691	1.01	1
11031	12378-PeCDD	40321-76-4	0.0556	JQ	0.0492	5.07	1
11031	123478-HxCDD	39227-28-6	0.0335	U	0.0335	5.07	1
11031	123678-HxCDD	57653-85-7	0.0342	JQ	0.0328	5.07	1
11031	123789-HxCDD	19408-74-3	0.0323	U	0.0323	5.07	1
11031	1234678-HpCDD	35822-46-9	0.244	JBQ	0.0614	5.07	1
11031	OCDD	3268-87-9	0.986	JB	0.0616	10.1	1
11031	2378-TCDF	51207-31-9	0.0523	U	0.0523	1.01	1
11031	12378-PeCDF	57117-41-6	0.0486	JQ	0.0262	5.07	1
11031	23478-PeCDF	57117-31-4	0.0321	JB	0.0247	5.07	1
11031	123478-HxCDF	70648-26-9	0.0411	JBQ	0.0267	5.07	1
11031	123678-HxCDF	57117-44-9	0.0234	U	0.0234	5.07	1
11031	123789-HxCDF	72918-21-9	0.0304	U	0.0304	5.07	1
11031	234678-HxCDF	60851-34-5	0.0614	JBQ	0.0251	5.07	1
11031	1234678-HpCDF	67562-39-4	0.111	JBQ	0.0260	5.07	1
11031	1234789-HpCDF	55673-89-7	0.0602	JQ	0.0480	5.07	1
11031	OCDF	39001-02-0	0.221	JB	0.0686	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	54	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-070-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-070-SA7-SB-3.0-4.0

LLI Sample # SW 6408619
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 10:14

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3516 SDG#: DX135-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-070-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-070-SA7-SB-3.0-4.0

LLI Sample # SW 6408619
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 10:14

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3516 SDG#: DX135-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11266001	09/27/2011 07:35	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11266001	09/24/2011 10:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162402A	09/20/2011 20:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-081-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-081-SA7-SB-4.0-5.0

LLI Sample # SW 6408620
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 12:20

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3517 SDG#: DX135-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-081-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-081-SA7-SB-4.0-5.0

LLI Sample # SW 6408620
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 12:20

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3517 SDG#: DX135-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0699	U	0.0699	1.07	1
11031	12378-PeCDD	40321-76-4	0.0704	JQ	0.0503	5.37	1
11031	123478-HxCDD	39227-28-6	0.0376	JQ	0.0357	5.37	1
11031	123678-HxCDD	57653-85-7	0.0780	JQ	0.0348	5.37	1
11031	123789-HxCDD	19408-74-3	0.133	JB	0.0309	5.37	1
11031	1234678-HpCDD	35822-46-9	0.305	JBQ	0.0537	5.37	1
11031	OCDD	3268-87-9	1.57	JB	0.0569	10.7	1
11031	2378-TCDF	51207-31-9	0.0485	U	0.0485	1.07	1
11031	12378-PeCDF	57117-41-6	0.101	J	0.0256	5.37	1
11031	23478-PeCDF	57117-31-4	0.0827	JBQ	0.0238	5.37	1
11031	123478-HxCDF	70648-26-9	0.0587	JBQ	0.0275	5.37	1
11031	123678-HxCDF	57117-44-9	0.0483	JB	0.0239	5.37	1
11031	123789-HxCDF	72918-21-9	0.143	JB	0.0259	5.37	1
11031	234678-HxCDF	60851-34-5	0.0569	JB	0.0226	5.37	1
11031	1234678-HpCDF	67562-39-4	0.0862	JB	0.0276	5.37	1
11031	1234789-HpCDF	55673-89-7	0.0409	U	0.0409	5.37	1
11031	OCDF	39001-02-0	0.137	JB	0.0662	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	64	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-081-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-081-SA7-SB-4.0-5.0

LLI Sample # SW 6408620
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 12:20

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3517 SDG#: DX135-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-081-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-081-SA7-SB-4.0-5.0

LLI Sample # SW 6408620
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 12:20

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3517 SDG#: DX135-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11266001	09/27/2011 08:32	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11266001	09/24/2011 10:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162402A	09/20/2011 20:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-081-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-081-SA7-SB-9.0-10.0

LLI Sample # SW 6408621
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 12:24

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3518 SDG#: DX135-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-081-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-081-SA7-SB-9.0-10.0

LLI Sample # SW 6408621
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 12:24

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3518 SDG#: DX135-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0705	U	0.0705	1.11	1
11031	12378-PeCDD	40321-76-4	0.133	JQ	0.0491	5.53	1
11031	123478-HxCDD	39227-28-6	0.0476	U	0.0476	5.53	1
11031	123678-HxCDD	57653-85-7	0.217	JQ	0.0488	5.53	1
11031	123789-HxCDD	19408-74-3	0.357	JB	0.0448	5.53	1
11031	1234678-HpCDD	35822-46-9	0.441	JB	0.0577	5.53	1
11031	OCDD	3268-87-9	1.87	JBQ	0.0657	11.1	1
11031	2378-TCDF	51207-31-9	0.0740	JQ	0.0616	1.11	1
11031	12378-PeCDF	57117-41-6	0.188	JQ	0.0297	5.53	1
11031	23478-PeCDF	57117-31-4	0.104	JBQ	0.0285	5.53	1
11031	123478-HxCDF	70648-26-9	0.0884	JBQ	0.0297	5.53	1
11031	123678-HxCDF	57117-44-9	0.0962	JBQ	0.0268	5.53	1
11031	123789-HxCDF	72918-21-9	0.287	JB	0.0288	5.53	1
11031	234678-HxCDF	60851-34-5	0.0599	JB	0.0251	5.53	1
11031	1234678-HpCDF	67562-39-4	0.389	JBQ	0.0337	5.53	1
11031	1234789-HpCDF	55673-89-7	0.0617	JQ	0.0484	5.53	1
11031	OCDF	39001-02-0	0.280	JBQ	0.0709	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	88	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	93	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	78	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-081-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-081-SA7-SB-9.0-10.0

LLI Sample # SW 6408621
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 12:24

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3518 SDG#: DX135-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-081-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-081-SA7-SB-9.0-10.0

LLI Sample # SW 6408621
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 12:24

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3518 SDG#: DX135-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11266001	09/27/2011 09:28	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11266001	09/24/2011 10:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162402B	09/20/2011 20:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-183-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-183-SA7-SB-4.0-5.0

LLI Sample # SW 6408622
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 14:45

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3519 SDG#: DX135-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-183-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-183-SA7-SB-4.0-5.0

LLI Sample # SW 6408622
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 14:45

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3519 SDG#: DX135-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0744 U	0.0744	1.06	1
11031	12378-PeCDD	40321-76-4	0.0608 JQ	0.0450	5.32	1
11031	123478-HxCDD	39227-28-6	0.0753 JQ	0.0398	5.32	1
11031	123678-HxCDD	57653-85-7	0.0413 JQ	0.0396	5.32	1
11031	123789-HxCDD	19408-74-3	0.0498 JBQ	0.0376	5.32	1
11031	1234678-HpCDD	35822-46-9	0.259 JB	0.0553	5.32	1
11031	OCDD	3268-87-9	0.758 JB	0.0519	10.6	1
11031	2378-TCDF	51207-31-9	0.0605 U	0.0605	1.06	1
11031	12378-PeCDF	57117-41-6	0.0794 JQ	0.0287	5.32	1
11031	23478-PeCDF	57117-31-4	0.0269 U	0.0269	5.32	1
11031	123478-HxCDF	70648-26-9	0.0317 U	0.0317	5.32	1
11031	123678-HxCDF	57117-44-9	0.0474 JBQ	0.0274	5.32	1
11031	123789-HxCDF	72918-21-9	0.0525 JBQ	0.0245	5.32	1
11031	234678-HxCDF	60851-34-5	0.0681 JB	0.0236	5.32	1
11031	1234678-HpCDF	67562-39-4	0.152 JBQ	0.0245	5.32	1
11031	1234789-HpCDF	55673-89-7	0.0341 J	0.0317	5.32	1
11031	OCDF	39001-02-0	0.190 JB	0.0656	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	67	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-183-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-183-SA7-SB-4.0-5.0

LLI Sample # SW 6408622
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 14:45

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3519 SDG#: DX135-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-183-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-183-SA7-SB-4.0-5.0

LLI Sample # SW 6408622
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 14:45

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3519 SDG#: DX135-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11266001	09/27/2011 13:28	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11266001	09/24/2011 10:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162402B	09/20/2011 20:35	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-183-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-183-SA7-SB-9.0-10.0

LLI Sample # SW 6408623
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 14:48

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3520 SDG#: DX135-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-183-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-183-SA7-SB-9.0-10.0

LLI Sample # SW 6408623
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 14:48

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3520 SDG#: DX135-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.120	U	0.120	1.12	1
11031	12378-PeCDD	40321-76-4	0.0942	U	0.0942	5.60	1
11031	123478-HxCDD	39227-28-6	0.0566	U	0.0566	5.60	1
11031	123678-HxCDD	57653-85-7	0.0679	JQ	0.0595	5.60	1
11031	123789-HxCDD	19408-74-3	0.110	JB	0.0573	5.60	1
11031	1234678-HpCDD	35822-46-9	0.269	JB	0.0749	5.60	1
11031	OCDD	3268-87-9	0.801	JB	0.0834	11.2	1
11031	2378-TCDF	51207-31-9	0.0982	U	0.0982	1.12	1
11031	12378-PeCDF	57117-41-6	0.0460	U	0.0460	5.60	1
11031	23478-PeCDF	57117-31-4	0.0425	U	0.0425	5.60	1
11031	123478-HxCDF	70648-26-9	0.0420	U	0.0420	5.60	1
11031	123678-HxCDF	57117-44-9	0.0376	U	0.0376	5.60	1
11031	123789-HxCDF	72918-21-9	0.128	JBQ	0.0340	5.60	1
11031	234678-HxCDF	60851-34-5	0.0619	JB	0.0331	5.60	1
11031	1234678-HpCDF	67562-39-4	0.176	JBQ	0.0374	5.60	1
11031	1234789-HpCDF	55673-89-7	0.0542	U	0.0542	5.60	1
11031	OCDF	39001-02-0	0.272	JBQ	0.0905	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	50	25 - 164
13C12-12378-PeCDD	51	25 - 181
13C12-123478-HxCDD	59	32 - 141
13C12-123678-HxCDD	61	28 - 130
13C12-123789-HxCDD	61	28 - 130
13C12-1234678-HpCDD	62	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	51	24 - 169
13C12-12378-PeCDF	53	24 - 185
13C12-23478-PeCDF	52	21 - 178
13C12-123478-HxCDF	46	26 - 152
13C12-123678-HxCDF	52	26 - 123
13C12-234678-HxCDF	56	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	50	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-183-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-183-SA7-SB-9.0-10.0

LLI Sample # SW 6408623
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 14:48

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3520 SDG#: DX135-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-183-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-183-SA7-SB-9.0-10.0

LLI Sample # SW 6408623
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 14:48

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3520 SDG#: DX135-20

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11266001	09/27/2011 14:24	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11266001	09/24/2011 10:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162402B	09/20/2011 20:35	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB-SA7-SB-091511 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-091511

LLI Sample # WW 6408624
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:00

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3521 SDG#: DX135-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.515	U	0.515	2.02	1
10915	12378-PeCDD	40321-76-4	0.503	JQ	0.394	10.1	1
10915	123478-HxCDD	39227-28-6	0.282	U	0.282	10.1	1
10915	123678-HxCDD	57653-85-7	0.265	U	0.265	10.1	1
10915	123789-HxCDD	19408-74-3	0.259	U	0.259	10.1	1
10915	1234678-HpCDD	35822-46-9	2.79	JBQ	0.387	10.1	1
10915	OCDD	3268-87-9	3.53	JB	0.303	20.2	1
10915	2378-TCDF	51207-31-9	0.399	U	0.399	2.02	1
10915	12378-PeCDF	57117-41-6	0.198	U	0.198	10.1	1
10915	23478-PeCDF	57117-31-4	0.545	JBQ	0.168	10.1	1
10915	123478-HxCDF	70648-26-9	0.361	JB	0.157	10.1	1
10915	123678-HxCDF	57117-44-9	0.284	JBQ	0.153	10.1	1
10915	123789-HxCDF	72918-21-9	0.206	JBQ	0.161	10.1	1
10915	234678-HxCDF	60851-34-5	0.436	JBQ	0.140	10.1	1
10915	1234678-HpCDF	67562-39-4	1.16	JBQ	0.147	10.1	1
10915	1234789-HpCDF	55673-89-7	0.284	JQ	0.174	10.1	1
10915	OCDF	39001-02-0	1.77	JB	0.482	20.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	88	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	61	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB-SA7-SB-091511 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-091511

LLI Sample # WW 6408624
LLI Group # 1266823
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:00

Submitted: 09/16/2011 09:10
Reported: 09/29/2011 13:52

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3521 SDG#: DX135-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11263003	09/24/2011 00:16	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11263003	09/21/2011 09:30	Deborah M Zimmerman	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266823
Reported: 09/29/11 at 01:52 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11263162402A	Sample number(s): 6408610-6408620									
Moisture Content by 160.3						100		80-120		
Batch number: 11263162402B	Sample number(s): 6408621-6408623									
Moisture Content by 160.3						100		80-120		

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11263003	Sample number(s): 6408624									
2378-TCDD	0.812	U	0.812	2.00	pg/l	106		67-158		
12378-PeCDD	0.674	U	0.674	10.0	pg/l	106		70-142		
123478-HxCDD	0.477	J	0.429	10.0	pg/l	102		70-164		
123678-HxCDD	0.422	U	0.422	10.0	pg/l	100		76-134		
123789-HxCDD	0.411	J	0.409	10.0	pg/l	102		64-162		
1234678-HpCDD	2.91	J	0.671	10.0	pg/l	102		70-140		
OCDD	4.20	J	0.496	20.0	pg/l	104		78-144		
2378-TCDF	0.635	U	0.635	2.00	pg/l	94		75-158		
12378-PeCDF	0.344	U	0.344	10.0	pg/l	103		80-134		
23478-PeCDF	0.841	J	0.309	10.0	pg/l	101		68-160		
123478-HxCDF	0.455	J	0.277	10.0	pg/l	99		72-134		
123678-HxCDF	0.421	J	0.271	10.0	pg/l	97		84-130		
123789-HxCDF	0.390	J	0.307	10.0	pg/l	98		78-130		
234678-HxCDF	0.600	J	0.261	10.0	pg/l	99		70-156		
1234678-HpCDF	1.08	J	0.343	10.0	pg/l	99		82-122		
1234789-HpCDF	0.387	U	0.387	10.0	pg/l	101		78-138		
OCDF	2.03	J	0.810	20.0	pg/l	104		63-170		
Batch number: 11266001	Sample number(s): 6408610-6408623									
2378-TCDD	0.0940	U	0.0940	1.00	ng/kg	91		67-158		
12378-PeCDD	0.0486	U	0.0486	5.00	ng/kg	91		70-142		
123478-HxCDD	0.0342	U	0.0342	5.00	ng/kg	91		70-164		
123678-HxCDD	0.0357	U	0.0357	5.00	ng/kg	84		76-134		
123789-HxCDD	0.0728	J	0.0330	5.00	ng/kg	88		64-162		
1234678-HpCDD	0.256	J	0.0526	5.00	ng/kg	89		70-140		
OCDD	0.558	J	0.0442	10.0	ng/kg	86		78-144		
2378-TCDF	0.0755	U	0.0755	1.00	ng/kg	88		75-158		
12378-PeCDF	0.0300	U	0.0300	5.00	ng/kg	93		80-134		
23478-PeCDF	0.0299	J	0.0290	5.00	ng/kg	87		68-160		
123478-HxCDF	0.0581	J	0.0389	5.00	ng/kg	87		72-134		
123678-HxCDF	0.0428	J	0.0345	5.00	ng/kg	88		84-130		
123789-HxCDF	0.0317	J	0.0305	5.00	ng/kg	89		78-130		
234678-HxCDF	0.0745	J	0.0239	5.00	ng/kg	89		70-156		
1234678-HpCDF	0.141	J	0.0256	5.00	ng/kg	87		82-122		
1234789-HpCDF	0.0343	U	0.0343	5.00	ng/kg	88		78-138		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266823
Reported: 09/29/11 at 01:52 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
OCDF	0.180 J	0.0655	10.0	ng/kg	89		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11263162402A	Sample number(s): 6408610-6408620					BKG: P408594			
Moisture Content by 160.3						9.2	9.2	0	20
Batch number: 11263162402B	Sample number(s): 6408621-6408623					BKG: P408596			
Moisture Content by 160.3						7.6	8.0	5	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11263003

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6408624	75	88	69	69	72	77
Blank	72	63	59	62	62	65
OPR	77	69	71	72	78	75
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6408624	68	69	61	85	71	74
Blank	60	62	60	60	64	68
OPR	74	77	79	69	79	79
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6408624	73	70	63	79	84
Blank	66	67	63	75	61
OPR	79	81	82	78	69
Limits:	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11266001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6408610	75	72	39	46	74	80
6408611	73	72	63	68	77	86

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266823
Reported: 09/29/11 at 01:52 PM

Surrogate Quality Control

6408612	90	86	77	83	89	103
6408613	77	72	64	70	79	91
6408614	78	75	33	33	79	94
6408615	73	71	60	64	75	85
6408616	77	71	51	57	76	85
6408617	78	75	70	72	77	88
6408618	68	64	61	72	70	73
6408619	68	70	63	74	69	67
6408620	72	69	61	71	73	76
6408621	83	79	76	83	83	87
6408622	71	70	56	65	74	85
6408623	50	52	46	52	56	65
Blank	62	66	47	54	71	68
OPR	81	80	69	77	86	98
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6408610	52	72	66	71	68	73
6408611	78	78	81	71	77	80
6408612	88	90	99	83	89	92
6408613	80	79	78	70	78	84
6408614	43	79	75	73	77	78
6408615	74	73	73	70	76	76
6408616	70	71	68	69	78	78
6408617	78	77	77	72	78	78
6408618	86	61	55	65	71	77
6408619	88	60	54	71	73	77
6408620	83	67	64	71	78	78
6408621	91	80	78	80	88	89
6408622	76	71	67	70	77	77
6408623	62	53	50	51	59	61
Blank	68	64	60	69	73	73
OPR	92	79	75	81	87	91
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6408610	80	78	76	79	78	
6408611	95	85	120	79	74	
6408612	91	94	126	95	88	
6408613	98	85	90	85	75	
6408614	94	83	80	83	74	
6408615	91	80	89	78	73	
6408616	99	82	83	80	74	
6408617	95	83	110	85	75	
6408618	90	75	70	71	69	
6408619	79	75	72	67	72	
6408620	84	79	76	72	74	
6408621	93	89	87	83	83	
6408622	78	78	75	72	73	
6408623	61	62	58	51	53	
Blank	75	76	72	62	69	
OPR	90	91	88	83	85	
Limits:	28-130	23-140	17-157	24-169	24-185	

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266823
Reported: 09/29/11 at 01:52 PM

Surrogate Quality Control

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 12066373 sample# 640561024

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
‡ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subareas 8 (SA8) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Dyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015D	**Alcohols EPA 8015B	**Dowcrol EPA 8270	Other Instructions and Notes
SL-010-SA7-SB-0.0-0.5	09.15.11	1010	SOIL	NONE	1-SS Sleeve			X	X																		
SL-010-SA7-SB-0.0-0.5	09.15.11	1010	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-014-SA7-SB-0.0-0.5	09.15.11	0940	SOIL	NONE	1-SS Sleeve			X	X																		
SL-014-SA7-SB-0.0-0.5	09.15.11	0940	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-018-SA7-SB-0.0-0.5	09.15.11	0830	SOIL	NONE	1-SS Sleeve			X	X																		
SL-018-SA7-SB-0.0-0.5	09.15.11	0830	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-021-SA7-SB-0.0-0.5	09.15.11	0750	SOIL	NONE	1-SS Sleeve			X	X																		
SL-021-SA7-SB-0.0-0.5	09.15.11	0750	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-091-SA7-SB-0.0-0.5	09.15.11	1135	SOIL	NONE	1-SS Sleeve			X	X																		
SL-091-SA7-SB-0.0-0.5	09.15.11	1135	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-092-SA7-SB-0.0-0.5	09.15.11	1045	SOIL	NONE	1-SS Sleeve			X	X																		
SL-092-SA7-SB-0.0-0.5	09.15.11	1045	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-096-SA7-SB-0.0-0.5	09.15.11	0855	SOIL	NONE	1-SS Sleeve			X	X																		
SL-096-SA7-SB-0.0-0.5	09.15.11	0855	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-097-SA7-SB-0.0-0.5	09.15.11	0810	SOIL	NONE	1-SS Sleeve			X	X																		
SL-097-SA7-SB-0.0-0.5	09.15.11	0810	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-026-SA7-SB-0.0-0.5	09.14.11	1535	SOIL	NONE	1-SS Sleeve			X	X																		Collected 9/14/11
SL-026-SA7-SB-0.0-0.5	09.14.11	1535	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											Collected 9/14/11

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	09/15/2011 / 1600		Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
Brandy Baneley 910	9-16-11	8754 3341 6518,6529,6507,6492	

acct#13013 Cap# 12066533 sample# 6405610-24

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 8 (SAE) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/SW7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA m/82	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs	**TPH-EPH-LPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dioxins EPA 8270	Other Instructions and Notes
SL-037-SA7-SB-4.5	09.15.11	0904	SOIL	NONE	2-Encores										X											
SL-037-SA7-SB-4.0-5.0	09.15.11	0903	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X		X					X	X	X	X		
SL-070-SA7-SB-3.5	09.15.11	1013	SOIL	NONE	2-Encores										X											
SL-070-SA7-SB-3.0-4.0	09.15.11	1014	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X		X						X	X	X		
SL-081-SA7-SB-4.0-5.0	09.15.11	1223	SOIL	NONE	2-16 oz Jars										X											
SL-081-SA7-SB-9.0-10.0	09.15.11	1224	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X	X												
SL-183-SA7-SB-4.0-5.0	09.15.11	1445	SOIL	NONE	2-16 oz Jars										X											
SL-183-SA7-SB-9.0-10.0	09.15.11	1448	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X	X												
TB-091511	09.15.11	0800	WATER	NONE	2-10mL vials										X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	09/15/2011 / 1600		Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
Brandy	9-16-11	8754 3341 6518,6529,6507,6492	

Brandy 910

acct#13013 Cp# 1266323 sample# 6403610-24

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 8 (SA8) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/HCTs EPA 8082	*Chlor/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA (8852) (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260B/M $	TPH-GRO EPA 8015B $	**TPH-E/H EPA 8015B Mod.	**Nitrate EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dioxins/f EPA 8270	Other Instructions and Notes
EB-SA7-SS-091511	09.15.11	1300	WATER	NONE	10-1 liter ambers			X	X	X								X			X	X		X						**Geoprobe EB
EB-SA7-SS-091511	09.15.11	1300	WATER	NONE	1-500 mL poly		X				X	X	X																	
EB-SA7-SS-091511	09.15.11	1300	WATER	HNO3	1-500 mL poly	X																								
EB-SA7-SS-091511	09.15.11	1300	WATER	NaOH	1-500 mL glass																		X							
EB-SA7-SS-091511	09.15.11	1300	WATER	NONE	1-250 mL glass															X										
EB-SA7-SS-091511	09.15.11	1300	WATER	HCl	11-40 mL vials										X	X	X									X		X		
EB-SA7-SS-091511	09.15.11	1300	WATER	NONE	4-40 mL vials														X						X		X			

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	09/15/2011 / 1600		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
Brandon	9-16-11	8754 3341 6518,6529,6507,6492	

Brandon 910

Nicole Maljovec

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Thursday, September 15, 2011 7:00 PM
To: Nicole Maljovec
Subject: SL-026

Nicole

A sample evaded me today and did not make it into the coolers! You will see surface sample SL-026 collected on 9/14/11 on the paper copy COC but not in the coolers. I removed it from the emailed COC.

I will send it tomorrow, I'm guessing it be be over its holding time?

Pam

Nicole Maljovec

From: Nicole Maljovec
Sent: Friday, September 16, 2011 6:41 PM
To: 'Hartman, Pamela'
Subject: RE: SSFL COC 9/15/11

Hi Pam,
The surface samples from the 15th have SB on the COC, but I'm guessing it should be SS. I spot checked one of the sample labels and it was SS. I'm going to go ahead and make the update.

Let me know if it needs to stay SB.

Thanks,
Nicole

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Thursday, September 15, 2011 6:58 PM
To: Burgesser, Todd; Bloisa, Peggy; 'Laura Rainey'; Nicole Maljovec; SA Env Entry; TWallbom@dtsc.ca.gov; Zakowski, Cherie
Subject: SSFL COC 9/15/11

Subsurface and surface sampling continued in SA7 today. See attached COC.

Thanks,

Pam

Tamara J. Helsel

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Friday, September 16, 2011 10:08 AM
To: Tamara J. Helsel
Subject: RE: SSFL COC 9/15/11

Just do primary for all samples. The TPH should not be selected, sorry for the inaccurate COC!

-- Sent from my Palm Pre

On Sep 15, 2011 5:41 PM, Tamara J. Helsel <THelsel@lancasterlabs.com> wrote:

Could you possibly take a look at SL-081-SA7-SB-4.0-5.0, SL-081-SA7-SB-9.0-10.0, SL-183-SA7-SB-4.0-5.0, and SL-183-SB-9.0-10.0?
We do not have any encores for the GRO on SL-081-SA7-SB-4.0-5.0, and SL-183-SA7-SB-4.0-5.0, they are marked as having 2 16 oz jars. Should these be 4 separate samples with the primary analyses and GRO on all of them or should the 4.0-5.0 depths really just be for GRO and the 9.0-10.0 depths be just for Primary?

Thanks,
Tammy

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Thursday, September 15, 2011 6:58 PM
To: Burgesser, Todd; Bloisa, Peggy; 'Laura Rainey'; Nicole Maljovec; SA Env Entry; TWallbom@dtsc.ca.gov; Zakowski, Cherie
Subject: SSFL COC 9/15/11

Subsurface and surface sampling continued in SA7 today. See attached COC.

Thanks,

Pam

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Nicole Maljovec

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Thursday, September 22, 2011 2:22 PM
To: Nicole Maljovec
Subject: Sample Name Mistake

Follow Up Flag: Follow up
Flag Status: Red

Hi Nicole

I just found a mistake on my EB sample name from last week. The sample sent on 9/15/11 called "EB-SA7-SS-091511" is supposed to be "EB-SA7-SB-091511". I think it was also checked so Pest/Herb, so we might have some extra results there..

Thanks

Pam

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 07, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/17/2011
Group Number: 1266997
SDG: DE245
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-034-SA7-SB-4.0-5.0 Soil	6409738
SL-034-SA7-SB-9.0-10.0 Soil	6409739
SL-035-SA7-SB-4.0-5.0 Soil	6409740
SL-035-SA7-SB-9.0-10.0 Soil	6409741
SL-079-SA7-SB-2.0-3.0 Soil	6409742
SL-080-SA7-SB-4.0-5.0 Soil	6409743
SL-080-SA7-SB-9.0-10.0 Soil	6409744
SL-146-SA7-SB-4.0-5.0 Soil	6409745
SL-146-SA7-SB-9.0-10.0 Soil	6409746
SL-007-SA7-SS-0.0-0.5 Soil	6409747
SL-157-SA7-SS-0.0-0.5 Soil	6409748
SL-086-SA7-SS-0.0-0.5 Soil	6409749
SL-087-SA7-SS-0.0-0.5 Soil	6409750
SL-026-SA7-SS-0.0-0.5 Soil	6409751
SL-008-SA7-SS-0.0-0.5 Soil	6409752
SL-008-SA7-SS-0.0-0.5MS Soil	6409753
SL-008-SA7-SS-0.0-0.5MSD Soil	6409754
SL-008-SA7-SS-0.0-0.5DUP Soil	6409755
SL-008-SA7-SS-0.0-0.5RL MS Soil	6409756
SL-008-SA7-SS-0.0-0.5RL LCS Soil	6409757
SL-045-SA7-SS-0.0-0.5 Soil	6409758
SL-090-SA7-SS-0.0-0.5 Soil	6409759
DUP01-SA7-QC-091511 Soil	6409760
SL-179-SA7-SS-0.0-0.5 Soil	6409761
SL-098-SA7-SS-0.0-0.5 Soil	6409762

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Analysis Report

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Matthew E. Barton
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-034-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA7-SB-4.0-5.0

LLI Sample # SW 6409738
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:00

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4501 SDG#: DE245-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	160	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	130	J	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-034-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA7-SB-4.0-5.0

LLI Sample # SW 6409738
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:00

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4501 SDG#: DE245-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.4		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-034-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA7-SB-4.0-5.0

LLI Sample # SW 6409738
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:00

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4501 SDG#: DE245-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,000		6.43	21.3		1
07914	Boron	7440-42-8	1.32	J	0.383	5.32		1
01650	Calcium	7440-70-2	2,690		2.66	21.3		1
01654	Iron	7439-89-6	21,700		2.78	21.3		1
01656	Lithium	7439-93-2	25.5		0.66	2.1		1
01657	Magnesium	7439-95-4	5,070		0.468	10.6		1
06958	Manganese	7439-96-5	307		0.0383	0.532		1
10145	Phosphorus	7723-14-0	308		0.372	10.6		1
01662	Potassium	7440-09-7	2,420		12.0	53.2		1
01667	Sodium	7440-23-5	142		6.33	106		1
07968	Strontium	7440-24-6	18.4		0.0266	0.532		1
06969	Tin	7440-31-5	2.74	J	0.340	10.6		1
06970	Titanium	7440-32-6	1,340		0.0755	1.06		1
10146	Zirconium	7440-67-7	0.769	J	0.489	5.32		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.227		0.0787	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.97		0.0851	0.425		2
06126	Barium	7440-39-3	153		0.113	0.425		2
06127	Beryllium	7440-41-7	0.987		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.165		0.0468	0.106		2
06131	Chromium	7440-47-3	31.2		0.128	0.425		2
06132	Cobalt	7440-48-4	9.99		0.0213	0.106		2
06133	Copper	7440-50-8	11.2		0.0851	0.425		2
06135	Lead	7439-92-1	5.01		0.0108	0.213		2
06138	Molybdenum	7439-98-7	1.26		0.0532	0.106		2
06139	Nickel	7440-02-0	16.2		0.106	0.425		2
06141	Selenium	7782-49-2	0.198	J	0.0617	0.425		2
06142	Silver	7440-22-4	0.0627	J	0.0151	0.106		2
06145	Thallium	7440-28-0	0.385		0.0319	0.106		2
06148	Vanadium	7440-62-2	62.8		0.0234	0.106		2
06149	Zinc	7440-66-6	82.9		0.595	3.19		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0086	J	0.0072	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.3		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-034-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA7-SB-4.0-5.0

LLI Sample # SW 6409738
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:00

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4501 SDG#: DE245-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.52	J	0.21	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.90		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.8		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11266SLB026	09/29/2011 17:01	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLC026	09/29/2011 11:21	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11266SLC026	09/26/2011 10:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11266SLB026	09/26/2011 03:00	David V Hershey Jr	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112690003A	09/27/2011 15:01	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112640028A	09/23/2011 19:04	Jamie L Brillhart	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112640028A	09/22/2011 10:30	Olivia Arosemena	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112690003A	09/27/2011 07:00	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	112635708001	09/27/2011 00:37	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112635708001	09/27/2011 00:37	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112635708001	09/27/2011 00:37	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112635708001	09/27/2011 00:37	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112635708001	09/27/2011 00:37	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112635708001	09/27/2011 00:37	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112635708001	09/27/2011 00:37	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112635708001	09/27/2011 00:37	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112635708001	09/27/2011 00:37	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112635708001	09/27/2011 00:37	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112635708001	09/27/2011 00:37	John W Yanzuk II	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-034-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA7-SB-4.0-5.0

LLI Sample # SW 6409738
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:00

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4501 SDG#: DE245-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112635708001	09/27/2011 00:37	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112635708001	09/27/2011 00:37	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112635708001	09/27/2011 00:37	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112631026001A	09/21/2011 10:43	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026001A	09/21/2011 10:43	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026001D	09/21/2011 10:43	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026001A	09/21/2011 10:43	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112631026001A	09/21/2011 10:43	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026001A	09/21/2011 10:43	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026001A	09/21/2011 10:43	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026001A	09/21/2011 10:43	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026001A	09/21/2011 17:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026001C	09/21/2011 10:43	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026001A	09/21/2011 10:43	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026001B	09/21/2011 10:43	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026001A	09/21/2011 10:43	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026001A	09/21/2011 10:43	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026001A	09/21/2011 10:43	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026001A	09/21/2011 10:43	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112635711002	09/21/2011 10:38	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708001	09/20/2011 21:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026001	09/20/2011 21:57	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711002	09/20/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11265621201A	09/24/2011 18:36	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11265621202A	09/24/2011 05:03	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11271243201A	09/30/2011 11:14	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11265621201A	09/22/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11265621202A	09/22/2011 08:07	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039402A	09/26/2011 09:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11271243201A	09/28/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403A	09/20/2011 19:11	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-034-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA7-SB-9.0-10.0

LLI Sample # SW 6409739
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:10

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4502 SDG#: DE245-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	220	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-034-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA7-SB-9.0-10.0

LLI Sample # SW 6409739
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:10

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4502 SDG#: DE245-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	1.3	J	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.46	J	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-034-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA7-SB-9.0-10.0

LLI Sample # SW 6409739
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:10

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4502 SDG#: DE245-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,000		6.36	21.0		1
07914	Boron	7440-42-8	1.62	J	0.378	5.25		1
01650	Calcium	7440-70-2	3,090		2.63	21.0		1
01654	Iron	7439-89-6	21,900		2.74	21.0		1
01656	Lithium	7439-93-2	26.3		0.65	2.1		1
01657	Magnesium	7439-95-4	5,170		0.462	10.5		1
06958	Manganese	7439-96-5	348		0.0378	0.525		1
10145	Phosphorus	7723-14-0	531		0.368	10.5		1
01662	Potassium	7440-09-7	3,980		11.9	52.5		1
01667	Sodium	7440-23-5	104	J	6.25	105		1
07968	Strontium	7440-24-6	20.9		0.0263	0.525		1
06969	Tin	7440-31-5	2.73	J	0.336	10.5		1
06970	Titanium	7440-32-6	1,340		0.0746	1.05		1
10146	Zirconium	7440-67-7	0.483	U	0.483	5.25		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.203	J	0.0801	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.06		0.0866	0.433		2
06126	Barium	7440-39-3	127		0.115	0.433		2
06127	Beryllium	7440-41-7	0.706		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.247		0.0476	0.108		2
06131	Chromium	7440-47-3	23.4		0.130	0.433		2
06132	Cobalt	7440-48-4	7.52		0.0216	0.108		2
06133	Copper	7440-50-8	11.1		0.0866	0.433		2
06135	Lead	7439-92-1	4.80		0.0110	0.216		2
06138	Molybdenum	7439-98-7	0.720		0.0541	0.108		2
06139	Nickel	7440-02-0	14.1		0.108	0.433		2
06141	Selenium	7782-49-2	0.121	J	0.0628	0.433		2
06142	Silver	7440-22-4	0.0472	J	0.0154	0.108		2
06145	Thallium	7440-28-0	0.341		0.0325	0.108		2
06148	Vanadium	7440-62-2	46.1		0.0238	0.108		2
06149	Zinc	7440-66-6	74.2		0.606	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0075	U	0.0075	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.85	U	0.85	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.5		0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-034-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA7-SB-9.0-10.0

LLI Sample # SW 6409739
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:10

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4502 SDG#: DE245-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.17	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	7.6	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11266SLB026	09/29/2011 04:03	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLC026	09/29/2011 11:55	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11266SLC026	09/26/2011 10:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11266SLB026	09/26/2011 03:00	David V Hershey Jr	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112640028A	09/23/2011 19:23	Jamie L Brillhart	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112640028A	09/22/2011 10:30	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	112635708001	09/27/2011 00:49	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112635708001	09/27/2011 00:49	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112635708001	09/27/2011 00:49	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112635708001	09/27/2011 00:49	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112635708001	09/27/2011 00:49	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112635708001	09/27/2011 00:49	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112635708001	09/27/2011 00:49	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112635708001	09/27/2011 00:49	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112635708001	09/27/2011 00:49	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112635708001	09/27/2011 00:49	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112635708001	09/27/2011 00:49	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112635708001	09/27/2011 00:49	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112635708001	09/27/2011 00:49	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112635708001	09/27/2011 00:49	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112631026001A	09/21/2011 10:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026001A	09/21/2011 10:47	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026001D	09/21/2011 10:47	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026001A	09/21/2011 10:47	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: **SL-034-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA7-SB-9.0-10.0

LLI Sample # SW 6409739
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:10

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4502 SDG#: DE245-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112631026001A	09/21/2011 10:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026001A	09/21/2011 10:47	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026001A	09/21/2011 10:47	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026001A	09/21/2011 10:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026001A	09/21/2011 18:01	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026001C	09/21/2011 10:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026001A	09/21/2011 10:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026001B	09/21/2011 10:47	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026001A	09/21/2011 10:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026001A	09/21/2011 10:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026001A	09/21/2011 10:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026001A	09/21/2011 10:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112635711002	09/21/2011 10:39	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708001	09/20/2011 21:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026001	09/20/2011 21:57	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711002	09/20/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11265621201A	09/24/2011 19:14	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11265621202A	09/24/2011 06:12	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11271243201A	09/30/2011 12:17	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11265621201A	09/22/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11265621202A	09/22/2011 08:07	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039402A	09/26/2011 09:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11271243201A	09/28/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403A	09/20/2011 19:11	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-035-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA7-SB-4.0-5.0

LLI Sample # SW 6409740
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 09:40

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4503 SDG#: DE245-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	130	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	130	J	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-035-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA7-SB-4.0-5.0

LLI Sample # SW 6409740
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 09:40

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4503 SDG#: DE245-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.8		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8		1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.8		1
10138	Pyrene	129-00-0	0.70	U	0.70	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-035-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA7-SB-4.0-5.0

LLI Sample # SW 6409740
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 09:40

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4503 SDG#: DE245-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,300		6.34	21.0		1
07914	Boron	7440-42-8	0.733	J	0.377	5.24		1
01650	Calcium	7440-70-2	4,350		2.62	21.0		1
01654	Iron	7439-89-6	20,500		2.74	21.0		1
01656	Lithium	7439-93-2	29.2		0.65	2.1		1
01657	Magnesium	7439-95-4	5,840		0.461	10.5		1
06958	Manganese	7439-96-5	289		0.0377	0.524		1
10145	Phosphorus	7723-14-0	350		0.367	10.5		1
01662	Potassium	7440-09-7	2,850		11.8	52.4		1
01667	Sodium	7440-23-5	108		6.24	105		1
07968	Strontium	7440-24-6	14.2		0.0262	0.524		1
06969	Tin	7440-31-5	2.73	J	0.336	10.5		1
06970	Titanium	7440-32-6	1,350		0.0744	1.05		1
10146	Zirconium	7440-67-7	0.482	U	0.482	5.24		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.137	J	0.0776	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.82		0.0839	0.419		2
06126	Barium	7440-39-3	105		0.111	0.419		2
06127	Beryllium	7440-41-7	0.719		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.121		0.0461	0.105		2
06131	Chromium	7440-47-3	23.8		0.126	0.419		2
06132	Cobalt	7440-48-4	7.77		0.0210	0.105		2
06133	Copper	7440-50-8	9.82		0.0839	0.419		2
06135	Lead	7439-92-1	4.18		0.0107	0.210		2
06138	Molybdenum	7439-98-7	0.542		0.0524	0.105		2
06139	Nickel	7440-02-0	13.4		0.105	0.419		2
06141	Selenium	7782-49-2	0.0608	U	0.0608	0.419		2
06142	Silver	7440-22-4	0.0364	J	0.0149	0.105		2
06145	Thallium	7440-28-0	0.353		0.0315	0.105		2
06148	Vanadium	7440-62-2	49.3		0.0231	0.105		2
06149	Zinc	7440-66-6	75.5		0.587	3.15		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0074	U	0.0074	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.0		0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.37	J	0.21	1.1		1

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-035-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA7-SB-4.0-5.0

LLI Sample # SW 6409740
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 09:40

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4503 SDG#: DE245-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.43	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11266SLB026	09/29/2011 17:26	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLC026	09/29/2011 12:30	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11266SLC026	09/26/2011 10:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11266SLB026	09/26/2011 03:00	David V Hershey Jr	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112640028A	09/23/2011 19:42	Jamie L Brillhart	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112640028A	09/22/2011 10:30	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	112635708001	09/27/2011 00:53	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112635708001	09/27/2011 00:53	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112635708001	09/27/2011 00:53	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112635708001	09/27/2011 00:53	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112635708001	09/27/2011 00:53	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112635708001	09/27/2011 00:53	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112635708001	09/27/2011 00:53	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112635708001	09/27/2011 00:53	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112635708001	09/27/2011 00:53	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112635708001	09/27/2011 00:53	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112635708001	09/27/2011 00:53	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112635708001	09/27/2011 00:53	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112635708001	09/27/2011 00:53	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112635708001	09/27/2011 00:53	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112631026001A	09/21/2011 10:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026001A	09/21/2011 10:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026001D	09/21/2011 10:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026001A	09/21/2011 10:56	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-035-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA7-SB-4.0-5.0

LLI Sample # SW 6409740
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 09:40

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4503 SDG#: DE245-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112631026001A	09/21/2011 10:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026001A	09/21/2011 10:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026001A	09/21/2011 10:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026001A	09/21/2011 10:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026001A	09/21/2011 18:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026001C	09/21/2011 10:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026001A	09/21/2011 10:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026001B	09/21/2011 10:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026001A	09/21/2011 10:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026001A	09/21/2011 10:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026001A	09/21/2011 10:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026001A	09/21/2011 10:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112635711002	09/21/2011 10:40	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708001	09/20/2011 21:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026001	09/20/2011 21:57	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711002	09/20/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11265621201A	09/24/2011 19:26	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11265621202A	09/24/2011 06:58	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11271243201A	09/30/2011 12:31	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11265621201A	09/22/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11265621202A	09/22/2011 08:07	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039402A	09/26/2011 09:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11271243201A	09/28/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403A	09/20/2011 19:11	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: SL-035-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA7-SB-9.0-10.0

LLI Sample # SW 6409741
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 09:44

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4504 SDG#: DE245-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	140	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	140	J	18	180		1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: SL-035-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA7-SB-9.0-10.0

LLI Sample # SW 6409741
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 09:44

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4504 SDG#: DE245-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-035-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA7-SB-9.0-10.0

LLI Sample # SW 6409741
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 09:44

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4504 SDG#: DE245-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,900		6.45	21.3		1
07914	Boron	7440-42-8	0.384	U	0.384	5.33		1
01650	Calcium	7440-70-2	2,870		2.67	21.3		1
01654	Iron	7439-89-6	19,600		2.78	21.3		1
01656	Lithium	7439-93-2	27.7		0.66	2.1		1
01657	Magnesium	7439-95-4	5,060		0.469	10.7		1
06958	Manganese	7439-96-5	268		0.0384	0.533		1
10145	Phosphorus	7723-14-0	315		0.373	10.7		1
01662	Potassium	7440-09-7	2,770		12.1	53.3		1
01667	Sodium	7440-23-5	102	J	6.35	107		1
07968	Strontium	7440-24-6	13.9		0.0267	0.533		1
06969	Tin	7440-31-5	3.05	J	0.341	10.7		1
06970	Titanium	7440-32-6	1,250		0.0757	1.07		1
10146	Zirconium	7440-67-7	0.491	U	0.491	5.33		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.162	J	0.0782	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.91		0.0845	0.423		2
06126	Barium	7440-39-3	97.1		0.112	0.423		2
06127	Beryllium	7440-41-7	0.663		0.0169	0.106		2
06128	Cadmium	7440-43-9	0.0705	J	0.0465	0.106		2
06131	Chromium	7440-47-3	17.8		0.127	0.423		2
06132	Cobalt	7440-48-4	5.98		0.0211	0.106		2
06133	Copper	7440-50-8	6.31		0.0845	0.423		2
06135	Lead	7439-92-1	3.86		0.0108	0.211		2
06138	Molybdenum	7439-98-7	0.521		0.0528	0.106		2
06139	Nickel	7440-02-0	9.35		0.106	0.423		2
06141	Selenium	7782-49-2	0.0893	J	0.0613	0.423		2
06142	Silver	7440-22-4	0.0207	J	0.0150	0.106		2
06145	Thallium	7440-28-0	0.282		0.0317	0.106		2
06148	Vanadium	7440-62-2	38.3		0.0232	0.106		2
06149	Zinc	7440-66-6	70.0		0.592	3.17		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0075	U	0.0075	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.2		0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-035-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA7-SB-9.0-10.0

LLI Sample # SW 6409741
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 09:44

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4504 SDG#: DE245-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.35	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	8.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11266SLB026	09/29/2011 17:51	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLC026	09/29/2011 13:03	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11266SLC026	09/26/2011 10:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11266SLB026	09/26/2011 03:00	David V Hershey Jr	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112640028A	09/23/2011 20:01	Jamie L Brillhart	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112640028A	09/22/2011 10:30	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	112635708001	09/27/2011 00:57	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112635708001	09/27/2011 00:57	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112635708001	09/27/2011 00:57	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112635708001	09/27/2011 00:57	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112635708001	09/27/2011 00:57	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112635708001	09/27/2011 00:57	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112635708001	09/27/2011 00:57	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112635708001	09/27/2011 00:57	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112635708001	09/27/2011 00:57	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112635708001	09/27/2011 00:57	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112635708001	09/27/2011 00:57	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112635708001	09/27/2011 00:57	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112635708001	09/27/2011 00:57	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112635708001	09/27/2011 00:57	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112631026001A	09/21/2011 10:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026001A	09/21/2011 10:59	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026001D	09/21/2011 10:59	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026001A	09/21/2011 10:59	Choon Y Tian	2

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Analysis Report

Sample Description: **SL-035-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA7-SB-9.0-10.0

LLI Sample # SW 6409741
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 09:44

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4504 SDG#: DE245-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112631026001A	09/21/2011 10:59	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026001A	09/21/2011 10:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026001A	09/21/2011 10:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026001A	09/21/2011 10:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026001A	09/21/2011 18:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026001C	09/21/2011 10:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026001A	09/21/2011 10:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026001B	09/21/2011 10:59	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026001A	09/21/2011 10:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026001A	09/21/2011 10:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026001A	09/21/2011 10:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026001A	09/21/2011 10:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112635711002	09/21/2011 10:41	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708001	09/20/2011 21:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026001	09/20/2011 21:57	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711002	09/20/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11265621201A	09/24/2011 19:39	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11265621202A	09/24/2011 07:21	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11271243201A	09/30/2011 12:38	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11265621201A	09/22/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11265621202A	09/22/2011 08:07	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039402A	09/26/2011 09:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11271243201A	09/28/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403A	09/20/2011 19:11	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-079-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA7-SB-2.0-3.0

LLI Sample # SW 6409742
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:26

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4505 SDG#: DE245-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	120	J	17	350		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1

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Sample Description: **SL-079-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-079-SA7-SB-2.0-3.0

LLI Sample # SW 6409742
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:26

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4505 SDG#: DE245-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19		1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19		1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7		1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

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Analysis Report

Sample Description: **SL-079-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-079-SA7-SB-2.0-3.0

LLI Sample # SW 6409742
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:26

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4505 SDG#: DE245-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,200		6.09	20.1		1
07914	Boron	7440-42-8	0.430	J	0.362	5.03		1
01650	Calcium	7440-70-2	7,580		2.51	20.1		1
01654	Iron	7439-89-6	17,100		2.63	20.1		1
01656	Lithium	7439-93-2	26.3		0.62	2.0		1
01657	Magnesium	7439-95-4	4,690		0.443	10.1		1
06958	Manganese	7439-96-5	240		0.0362	0.503		1
10145	Phosphorus	7723-14-0	348		0.352	10.1		1
01662	Potassium	7440-09-7	2,750		11.4	50.3		1
01667	Sodium	7440-23-5	75.8	J	5.98	101		1
07968	Strontium	7440-24-6	13.4		0.0251	0.503		1
06969	Tin	7440-31-5	2.61	J	0.322	10.1		1
06970	Titanium	7440-32-6	1,140		0.0714	1.01		1
10146	Zirconium	7440-67-7	0.463	U	0.463	5.03		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.140	J	0.0759	0.205		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.08		0.0820	0.410		2
06126	Barium	7440-39-3	103		0.109	0.410		2
06127	Beryllium	7440-41-7	0.605		0.0164	0.103		2
06128	Cadmium	7440-43-9	0.0926	J	0.0451	0.103		2
06131	Chromium	7440-47-3	19.8		0.123	0.410		2
06132	Cobalt	7440-48-4	7.22		0.0205	0.103		2
06133	Copper	7440-50-8	7.06		0.0820	0.410		2
06135	Lead	7439-92-1	3.88		0.0105	0.205		2
06138	Molybdenum	7439-98-7	0.499		0.0513	0.103		2
06139	Nickel	7440-02-0	10.2		0.103	0.410		2
06141	Selenium	7782-49-2	0.0756	J	0.0595	0.410		2
06142	Silver	7440-22-4	0.0263	J	0.0146	0.103		2
06145	Thallium	7440-28-0	0.304		0.0308	0.103		2
06148	Vanadium	7440-62-2	41.5		0.0226	0.103		2
06149	Zinc	7440-66-6	77.8		0.574	3.08		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0072	U	0.0072	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.84	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1

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Sample Description: **SL-079-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-079-SA7-SB-2.0-3.0

LLI Sample # SW 6409742
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:26

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4505 SDG#: DE245-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.58	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	4.4	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11266SLB026	09/29/2011 18:16	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLC026	09/29/2011 13:37	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11266SLC026	09/26/2011 10:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11266SLB026	09/26/2011 03:00	David V Hershey Jr	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112640028A	09/23/2011 20:20	Jamie L Brillhart	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112640028A	09/22/2011 10:30	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	112635708001	09/27/2011 01:01	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112635708001	09/27/2011 01:01	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112635708001	09/27/2011 01:01	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112635708001	09/27/2011 01:01	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112635708001	09/27/2011 01:01	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112635708001	09/27/2011 01:01	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112635708001	09/27/2011 01:01	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112635708001	09/27/2011 01:01	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112635708001	09/27/2011 01:01	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112635708001	09/27/2011 01:01	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112635708001	09/27/2011 01:01	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112635708001	09/27/2011 01:01	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112635708001	09/27/2011 01:01	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112635708001	09/27/2011 01:01	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112631026001A	09/21/2011 11:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026001A	09/21/2011 11:02	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026001D	09/21/2011 11:02	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026001A	09/21/2011 11:02	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-079-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-079-SA7-SB-2.0-3.0

LLI Sample # SW 6409742
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:26

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Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4505 SDG#: DE245-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112631026001A	09/21/2011 11:02	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026001A	09/21/2011 11:02	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026001A	09/21/2011 11:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026001A	09/21/2011 11:02	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026001A	09/21/2011 18:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026001C	09/21/2011 11:02	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026001A	09/21/2011 11:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026001B	09/21/2011 11:02	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026001A	09/21/2011 11:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026001A	09/21/2011 11:02	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026001A	09/21/2011 11:02	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026001A	09/21/2011 11:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112635711002	09/21/2011 10:43	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708001	09/20/2011 21:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026001	09/20/2011 21:57	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711002	09/20/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11265621201A	09/24/2011 19:52	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11265621202A	09/24/2011 07:44	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11271243201A	09/30/2011 12:51	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11265621201A	09/22/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11265621202A	09/22/2011 08:07	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039402A	09/26/2011 09:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11271243201A	09/28/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403A	09/20/2011 19:11	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-080-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA7-SB-4.0-5.0

LLI Sample # SW 6409743
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 12:15

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4506 SDG#: DE245-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	130	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	130	J	18	180		1

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Sample Description: **SL-080-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-080-SA7-SB-4.0-5.0

LLI Sample # SW 6409743
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 12:15

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4506 SDG#: DE245-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-080-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA7-SB-4.0-5.0

LLI Sample # SW 6409743
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 12:15

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4506 SDG#: DE245-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,700		6.45	21.3		1
07914	Boron	7440-42-8	1.60	J	0.384	5.33		1
01650	Calcium	7440-70-2	2,640		2.67	21.3		1
01654	Iron	7439-89-6	22,100		2.78	21.3		1
01656	Lithium	7439-93-2	27.7		0.66	2.1		1
01657	Magnesium	7439-95-4	4,950		0.469	10.7		1
06958	Manganese	7439-96-5	347		0.0384	0.533		1
10145	Phosphorus	7723-14-0	275		0.373	10.7		1
01662	Potassium	7440-09-7	2,720		12.1	53.3		1
01667	Sodium	7440-23-5	203		6.35	107		1
07968	Strontium	7440-24-6	19.3		0.0267	0.533		1
06969	Tin	7440-31-5	2.99	J	0.341	10.7		1
06970	Titanium	7440-32-6	1,380		0.0757	1.07		1
10146	Zirconium	7440-67-7	0.491	U	0.491	5.33		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.114	J	0.0774	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.28		0.0837	0.419		2
06126	Barium	7440-39-3	117		0.111	0.419		2
06127	Beryllium	7440-41-7	0.770		0.0167	0.105		2
06128	Cadmium	7440-43-9	0.0870	J	0.0460	0.105		2
06131	Chromium	7440-47-3	20.6		0.126	0.419		2
06132	Cobalt	7440-48-4	7.32		0.0209	0.105		2
06133	Copper	7440-50-8	8.27		0.0837	0.419		2
06135	Lead	7439-92-1	5.37		0.0107	0.209		2
06138	Molybdenum	7439-98-7	0.733		0.0523	0.105		2
06139	Nickel	7440-02-0	12.6		0.105	0.419		2
06141	Selenium	7782-49-2	0.0808	J	0.0607	0.419		2
06142	Silver	7440-22-4	0.0331	J	0.0149	0.105		2
06145	Thallium	7440-28-0	0.308		0.0314	0.105		2
06148	Vanadium	7440-62-2	42.5		0.0230	0.105		2
06149	Zinc	7440-66-6	65.4		0.586	3.14		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0075	U	0.0075	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.5		0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.51	J	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-080-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-080-SA7-SB-4.0-5.0

LLI Sample # SW 6409743
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 12:15

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4506 SDG#: DE245-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.55	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.1	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11266SLB026	09/29/2011 18:41	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLC026	09/29/2011 14:11	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11266SLC026	09/26/2011 10:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11266SLB026	09/26/2011 03:00	David V Hershey Jr	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112640028A	09/23/2011 20:39	Jamie L Brillhart	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112640028A	09/22/2011 10:30	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	112635708001	09/27/2011 01:05	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112635708001	09/27/2011 01:05	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112635708001	09/27/2011 01:05	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112635708001	09/27/2011 01:05	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112635708001	09/27/2011 01:05	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112635708001	09/27/2011 01:05	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112635708001	09/27/2011 01:05	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112635708001	09/27/2011 01:05	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112635708001	09/27/2011 01:05	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112635708001	09/27/2011 01:05	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112635708001	09/27/2011 01:05	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112635708001	09/27/2011 01:05	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112635708001	09/27/2011 01:05	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112635708001	09/27/2011 01:05	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112631026001A	09/21/2011 11:05	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026001A	09/21/2011 11:05	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026001D	09/21/2011 11:05	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026001A	09/21/2011 11:05	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-080-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-080-SA7-SB-4.0-5.0

LLI Sample # SW 6409743
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 12:15

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4506 SDG#: DE245-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112631026001A	09/21/2011 11:05	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026001A	09/21/2011 11:05	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026001A	09/21/2011 11:05	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026001A	09/21/2011 11:05	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026001A	09/21/2011 18:08	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026001C	09/21/2011 11:05	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026001A	09/21/2011 11:05	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026001B	09/21/2011 11:05	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026001A	09/21/2011 11:05	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026001A	09/21/2011 11:05	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026001A	09/21/2011 11:05	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026001A	09/21/2011 11:05	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112635711002	09/21/2011 10:44	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708001	09/20/2011 21:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026001	09/20/2011 21:57	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711002	09/20/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11265621201A	09/24/2011 20:04	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11265621202A	09/24/2011 08:07	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11271243201A	09/30/2011 13:11	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11265621201A	09/22/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11265621202A	09/22/2011 08:07	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039402A	09/26/2011 09:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11271243201A	09/28/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403A	09/20/2011 19:11	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-080-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA7-SB-9.0-10.0

LLI Sample # SW 6409744
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 12:18

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4507 SDG#: DE245-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	200	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-080-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-080-SA7-SB-9.0-10.0

LLI Sample # SW 6409744
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 12:18

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4507 SDG#: DE245-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-080-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-080-SA7-SB-9.0-10.0

LLI Sample # SW 6409744
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 12:18

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4507 SDG#: DE245-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,000		6.63	21.9		1
07914	Boron	7440-42-8	1.49	J	0.394	5.48		1
01650	Calcium	7440-70-2	2,160		2.74	21.9		1
01654	Iron	7439-89-6	18,800		2.86	21.9		1
01656	Lithium	7439-93-2	23.9		0.68	2.2		1
01657	Magnesium	7439-95-4	4,290		0.482	11.0		1
06958	Manganese	7439-96-5	315		0.0394	0.548		1
10145	Phosphorus	7723-14-0	265		0.383	11.0		1
01662	Potassium	7440-09-7	2,500		12.4	54.8		1
01667	Sodium	7440-23-5	159		6.52	110		1
07968	Strontium	7440-24-6	18.5		0.0274	0.548		1
06969	Tin	7440-31-5	2.73	J	0.351	11.0		1
06970	Titanium	7440-32-6	1,240		0.0778	1.10		1
10146	Zirconium	7440-67-7	1.20	J	0.504	5.48		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.202	J	0.0819	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.37		0.0885	0.443		2
06126	Barium	7440-39-3	157		0.117	0.443		2
06127	Beryllium	7440-41-7	0.982		0.0177	0.111		2
06128	Cadmium	7440-43-9	0.163		0.0487	0.111		2
06131	Chromium	7440-47-3	25.2		0.133	0.443		2
06132	Cobalt	7440-48-4	8.55		0.0221	0.111		2
06133	Copper	7440-50-8	10.9		0.0885	0.443		2
06135	Lead	7439-92-1	4.98		0.0113	0.221		2
06138	Molybdenum	7439-98-7	1.03		0.0553	0.111		2
06139	Nickel	7440-02-0	15.5		0.111	0.443		2
06141	Selenium	7782-49-2	0.145	J	0.0642	0.443		2
06142	Silver	7440-22-4	0.0418	J	0.0157	0.111		2
06145	Thallium	7440-28-0	0.402		0.0332	0.111		2
06148	Vanadium	7440-62-2	50.3		0.0243	0.111		2
06149	Zinc	7440-66-6	77.9		0.620	3.32		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0077	U	0.0077	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.7		0.91	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.45	J	0.23	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-080-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-080-SA7-SB-9.0-10.0

LLI Sample # SW 6409744
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 12:18

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4507 SDG#: DE245-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.29	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11266SLB026	09/29/2011 06:08	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLC026	09/29/2011 14:45	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11266SLC026	09/26/2011 10:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11266SLB026	09/26/2011 03:00	David V Hershey Jr	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112640028A	09/23/2011 20:57	Jamie L Brillhart	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112640028A	09/22/2011 10:30	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	112635708001	09/27/2011 01:09	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112635708001	09/27/2011 01:09	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112635708001	09/27/2011 01:09	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112635708001	09/27/2011 01:09	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112635708001	09/27/2011 01:09	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112635708001	09/27/2011 01:09	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112635708001	09/27/2011 01:09	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112635708001	09/27/2011 01:09	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112635708001	09/27/2011 01:09	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112635708001	09/27/2011 01:09	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112635708001	09/27/2011 01:09	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112635708001	09/27/2011 01:09	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112635708001	09/27/2011 01:09	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112635708001	09/27/2011 01:09	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112631026001A	09/21/2011 11:08	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026001A	09/21/2011 11:08	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026001D	09/21/2011 11:08	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026001A	09/21/2011 11:08	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-080-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-080-SA7-SB-9.0-10.0

LLI Sample # SW 6409744
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 12:18

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4507 SDG#: DE245-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112631026001A	09/21/2011 11:08	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026001A	09/21/2011 11:08	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026001A	09/21/2011 11:08	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026001A	09/21/2011 11:08	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026001A	09/21/2011 18:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026001C	09/21/2011 11:08	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026001A	09/21/2011 11:08	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026001B	09/21/2011 11:08	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026001A	09/21/2011 11:08	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026001A	09/21/2011 11:08	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026001A	09/21/2011 11:08	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026001A	09/21/2011 11:08	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112635711002	09/21/2011 10:45	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708001	09/20/2011 21:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026001	09/20/2011 21:57	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711002	09/20/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11265621201A	09/24/2011 20:43	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11265621202A	09/24/2011 08:30	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11271243201A	09/30/2011 13:38	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11265621201A	09/22/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11265621202A	09/22/2011 08:07	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039402A	09/26/2011 09:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11271243201A	09/28/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403A	09/20/2011 19:11	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-146-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA7-SB-4.0-5.0

LLI Sample # SW 6409745
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:43

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4508 SDG#: DE245-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	130	J	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	140	J	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-146-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA7-SB-4.0-5.0

LLI Sample # SW 6409745
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:43

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4508 SDG#: DE245-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-146-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA7-SB-4.0-5.0

LLI Sample # SW 6409745
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:43

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4508 SDG#: DE245-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,000		6.55	21.7		1
07914	Boron	7440-42-8	1.04	J	0.390	5.42		1
01650	Calcium	7440-70-2	2,820		2.71	21.7		1
01654	Iron	7439-89-6	22,400		2.83	21.7		1
01656	Lithium	7439-93-2	27.2		0.67	2.2		1
01657	Magnesium	7439-95-4	5,510		0.477	10.8		1
06958	Manganese	7439-96-5	309		0.0390	0.542		1
10145	Phosphorus	7723-14-0	379		0.379	10.8		1
01662	Potassium	7440-09-7	2,540		12.2	54.2		1
01667	Sodium	7440-23-5	197		6.45	108		1
07968	Strontium	7440-24-6	18.3		0.0271	0.542		1
06969	Tin	7440-31-5	2.84	J	0.347	10.8		1
06970	Titanium	7440-32-6	1,350		0.0769	1.08		1
10146	Zirconium	7440-67-7	0.498	U	0.498	5.42		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.171	J	0.0802	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.78		0.0867	0.433		2
06126	Barium	7440-39-3	125		0.115	0.433		2
06127	Beryllium	7440-41-7	0.794		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.159		0.0477	0.108		2
06131	Chromium	7440-47-3	25.5		0.130	0.433		2
06132	Cobalt	7440-48-4	7.95		0.0217	0.108		2
06133	Copper	7440-50-8	10.6		0.0867	0.433		2
06135	Lead	7439-92-1	4.95		0.0110	0.217		2
06138	Molybdenum	7439-98-7	0.863		0.0542	0.108		2
06139	Nickel	7440-02-0	14.9		0.108	0.433		2
06141	Selenium	7782-49-2	0.154	J	0.0628	0.433		2
06142	Silver	7440-22-4	0.0531	J	0.0154	0.108		2
06145	Thallium	7440-28-0	0.369		0.0325	0.108		2
06148	Vanadium	7440-62-2	52.6		0.0238	0.108		2
06149	Zinc	7440-66-6	70.9		0.607	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	U	0.0073	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	3.0		0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-146-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA7-SB-4.0-5.0

LLI Sample # SW 6409745
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:43

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4508 SDG#: DE245-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.54	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11266SLB026	09/29/2011 19:05	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLC026	09/29/2011 15:19	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11266SLC026	09/26/2011 10:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11266SLB026	09/26/2011 03:00	David V Hershey Jr	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112640028A	09/23/2011 21:16	Jamie L Brillhart	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112640028A	09/22/2011 10:30	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	112635708001	09/27/2011 01:13	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112635708001	09/27/2011 01:13	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112635708001	09/27/2011 01:13	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112635708001	09/27/2011 01:13	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112635708001	09/27/2011 01:13	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112635708001	09/27/2011 01:13	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112635708001	09/27/2011 01:13	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112635708001	09/27/2011 01:13	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112635708001	09/27/2011 01:13	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112635708001	09/27/2011 01:13	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112635708001	09/27/2011 01:13	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112635708001	09/27/2011 01:13	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112635708001	09/27/2011 01:13	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112635708001	09/27/2011 01:13	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112631026001A	09/21/2011 11:11	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026001A	09/21/2011 11:11	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026001D	09/21/2011 11:11	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026001A	09/21/2011 11:11	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-146-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA7-SB-4.0-5.0

LLI Sample # SW 6409745
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:43

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4508 SDG#: DE245-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112631026001A	09/21/2011 11:11	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026001A	09/21/2011 11:11	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026001A	09/21/2011 11:11	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026001A	09/21/2011 11:11	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026001A	09/21/2011 18:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026001C	09/21/2011 11:11	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026001A	09/21/2011 11:11	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026001B	09/21/2011 11:11	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026001A	09/21/2011 11:11	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026001A	09/21/2011 11:11	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026001A	09/21/2011 11:11	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026001A	09/21/2011 11:11	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112635711002	09/21/2011 10:47	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708001	09/20/2011 21:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026001	09/20/2011 21:57	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711002	09/20/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11265621201A	09/24/2011 20:55	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11265621202A	09/24/2011 08:53	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11271243201A	09/30/2011 13:51	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11265621201A	09/22/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11265621202A	09/22/2011 08:07	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039402A	09/26/2011 09:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11271243201A	09/28/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403A	09/20/2011 19:11	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-146-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA7-SB-9.0-10.0

LLI Sample # SW 6409746
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:46

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4509 SDG#: DE245-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	200	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	140	J	18	180		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-146-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA7-SB-9.0-10.0

LLI Sample # SW 6409746
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:46

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4509 SDG#: DE245-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	1.8		0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	3.2		0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	3.0		0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	3.5		0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	2.5		0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	3.3		0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	3.3		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	2.7		0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	3.0		0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.7		0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.78	J	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Phenanthrene	85-01-8	1.8	J	0.72	1.8		1
10138	Pyrene	129-00-0	2.6		0.72	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.9	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.97	J	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-146-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA7-SB-9.0-10.0

LLI Sample # SW 6409746
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:46

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4509 SDG#: DE245-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,000		6.48	21.4		1
07914	Boron	7440-42-8	1.33	J	0.385	5.35		1
01650	Calcium	7440-70-2	2,140		2.68	21.4		1
01654	Iron	7439-89-6	18,200		2.79	21.4		1
01656	Lithium	7439-93-2	24.9		0.66	2.1		1
01657	Magnesium	7439-95-4	4,570		0.471	10.7		1
06958	Manganese	7439-96-5	333		0.0385	0.535		1
10145	Phosphorus	7723-14-0	385		0.375	10.7		1
01662	Potassium	7440-09-7	3,380		12.1	53.5		1
01667	Sodium	7440-23-5	80.0	J	6.37	107		1
07968	Strontium	7440-24-6	16.8		0.0268	0.535		1
06969	Tin	7440-31-5	2.84	J	0.342	10.7		1
06970	Titanium	7440-32-6	1,180		0.0760	1.07		1
10146	Zirconium	7440-67-7	0.548	J	0.492	5.35		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.144	J	0.0784	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.30		0.0848	0.424		2
06126	Barium	7440-39-3	160		0.112	0.424		2
06127	Beryllium	7440-41-7	0.665		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.226		0.0466	0.106		2
06131	Chromium	7440-47-3	19.3		0.127	0.424		2
06132	Cobalt	7440-48-4	6.64		0.0212	0.106		2
06133	Copper	7440-50-8	8.99		0.0848	0.424		2
06135	Lead	7439-92-1	4.36		0.0108	0.212		2
06138	Molybdenum	7439-98-7	2.05		0.0530	0.106		2
06139	Nickel	7440-02-0	11.2		0.106	0.424		2
06141	Selenium	7782-49-2	0.148	J	0.0615	0.424		2
06142	Silver	7440-22-4	0.0273	J	0.0151	0.106		2
06145	Thallium	7440-28-0	0.378		0.0318	0.106		2
06148	Vanadium	7440-62-2	35.0		0.0233	0.106		2
06149	Zinc	7440-66-6	77.3		0.594	3.18		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076	U	0.0076	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-146-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA7-SB-9.0-10.0

LLI Sample # SW 6409746
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:46

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4509 SDG#: DE245-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.18	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.4	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11266SLB026	09/29/2011 12:25	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLC026	09/29/2011 15:53	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11266SLC026	09/26/2011 10:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11266SLB026	09/26/2011 03:00	David V Hershey Jr	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112640028A	09/23/2011 21:35	Jamie L Brillhart	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112640028A	09/22/2011 10:30	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	112635708001	09/27/2011 01:17	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112635708001	09/27/2011 01:17	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112635708001	09/27/2011 01:17	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112635708001	09/27/2011 01:17	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112635708001	09/27/2011 01:17	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112635708001	09/27/2011 01:17	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112635708001	09/27/2011 01:17	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112635708001	09/27/2011 01:17	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112635708001	09/27/2011 01:17	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112635708001	09/27/2011 01:17	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112635708001	09/27/2011 01:17	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112635708001	09/27/2011 01:17	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112635708001	09/27/2011 01:17	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112635708001	09/27/2011 01:17	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112631026001A	09/21/2011 11:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026001A	09/21/2011 11:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026001D	09/21/2011 11:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026001A	09/21/2011 11:15	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-146-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA7-SB-9.0-10.0

LLI Sample # SW 6409746
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:46

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4509 SDG#: DE245-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112631026001A	09/21/2011 11:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026001A	09/21/2011 11:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026001A	09/21/2011 11:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026001A	09/21/2011 11:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026001A	09/21/2011 18:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026001C	09/21/2011 11:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026001A	09/21/2011 11:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026001B	09/21/2011 11:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026001A	09/21/2011 11:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026001A	09/21/2011 11:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026001A	09/21/2011 11:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026001A	09/21/2011 11:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112635711002	09/21/2011 10:51	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708001	09/20/2011 21:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026001	09/20/2011 21:57	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711002	09/20/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11265621201A	09/24/2011 21:08	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11265621202A	09/24/2011 09:16	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11271243201A	09/30/2011 13:58	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11265621201A	09/22/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11265621202A	09/22/2011 08:07	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039402A	09/26/2011 09:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11271243201A	09/28/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403A	09/20/2011 19:11	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-007-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA7-SS-0.0-0.5

LLI Sample # SW 6409747
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 07:45

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4510 SDG#: DE245-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	23	J	17	170		1
04688	Carbazole	86-74-8	33	J	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-007-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA7-SS-0.0-0.5

LLI Sample # SW 6409747
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 07:45

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4510 SDG#: DE245-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	130	J	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	490		3.3	8.3		5
10138	Acenaphthylene	208-96-8	35		1.7	8.3		5
10138	Anthracene	120-12-7	860		1.7	8.3		5
10138	Benzo(a)anthracene	56-55-3	4,000		66	170		100
10138	Benzo(a)pyrene	50-32-8	3,600		66	170		100
10138	Benzo(b)fluoranthene	205-99-2	5,900		66	170		100
10138	Benzo(g,h,i)perylene	191-24-2	1,300		3.3	8.3		5
10138	Benzo(k)fluoranthene	207-08-9	2,700		66	170		100
10138	Chrysene	218-01-9	5,400		33	170		100
10138	Dibenz(a,h)anthracene	53-70-3	400		3.3	8.3		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	520		30	89		5
10138	Fluoranthene	206-44-0	14,000		66	170		100
10138	Fluorene	86-73-7	290		3.3	8.3		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1,500		3.3	8.3		5
10138	1-Methylnaphthalene	90-12-0	52		3.3	8.3		5
10138	2-Methylnaphthalene	91-57-6	36		3.3	8.3		5
10138	Naphthalene	91-20-3	63		3.3	8.3		5
10138	N-Nitrosodimethylamine	62-75-9	3.3	U	3.3	8.3		5
10138	Phenanthrene	85-01-8	9,200		66	170		100
10138	Pyrene	129-00-0	11,000		66	170		100
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	23	U	23	23		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1
10401	MCPA	94-74-6	1,200	U	1,200	1,200		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	3.0	U	3.0	3.0		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-007-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA7-SS-0.0-0.5

LLI Sample # SW 6409747
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 07:45

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4510 SDG#: DE245-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.33	U	0.33	0.84		5
01363	Alpha BHC	319-84-6	0.25	J	0.17	0.84		5
01363	Beta BHC	319-85-7	0.30	U	0.30	0.84		5
01363	Gamma BHC - Lindane	58-89-9	0.17	U	0.17	0.84		5
01363	Chlordane	57-74-9	4.9	J	4.0	17		5
01363	p,p-DDD	72-54-8	3.3	U	3.3	3.3		5
01363	p,p-DDE	72-55-9	0.62	U	0.62	1.7		5
01363	p,p-DDT	50-29-3	3.6	U	3.6	3.6		5
01363	Delta BHC	319-86-8	0.32	J	0.18	0.84		5
01363	Dieldrin	60-57-1	0.33	U	0.33	1.7		5
01363	Endosulfan I	959-98-8	0.22	U	0.22	0.84		5
01363	Endosulfan II	33213-65-9	0.33	U	0.33	1.7		5
01363	Endosulfan Sulfate	1031-07-8	4.6	U	4.6	4.6		5
01363	Endrin	72-20-8	1.2	U	1.2	1.7		5
01363	Endrin Aldehyde	7421-93-4	0.33	U	0.33	1.7		5
01363	Endrin Ketone	53494-70-5	0.33	U	0.33	1.7		5
01363	Heptachlor	76-44-8	0.30	U	0.30	0.84		5
01363	Heptachlor Epoxide	1024-57-3	0.42	U	0.42	0.84		5
01363	Methoxychlor	72-43-5	1.7	U	1.7	8.4		5
01363	Mirex	2385-85-5	1.5	U	1.5	1.7		5
01363	Toxaphene	8001-35-2	160	U	160	160		5
	The TCX surrogate data in the associated method blank is outside the client specified limits at 43%. However, the recovery is within our in-house statistical limits of 28-121. The DCB surrogate recovery is within the client specified limits. The TCX recovery is high enough to ensure minimal impact on the data. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	12		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	5.3		0.33	1.7		1
10225	PCB-1260	11096-82-5	7.8		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-007-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA7-SS-0.0-0.5

LLI Sample # SW 6409747
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 07:45

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4510 SDG#: DE245-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	3.4	J	1.5	3.5		1
10318	p-Terphenyl	92-94-4	2.4	J	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.0	U	4.0	12		10
10199	EFH (C15-C20)	n.a.	24		4.0	12		10
10199	EFH (C21-C30)	n.a.	130		4.0	12		10
10199	EFH (C30 - C40)	n.a.	210		4.0	12		10
10199	EFH (C8-C11)	n.a.	4.0	U	4.0	12		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,300		5.93	19.6		1
07914	Boron	7440-42-8	1.62	J	0.353	4.90		1
01650	Calcium	7440-70-2	3,300		2.45	19.6		1
01654	Iron	7439-89-6	31,300		12.8	98.1		5
01656	Lithium	7439-93-2	22.7		0.61	2.0		1
01657	Magnesium	7439-95-4	3,900		0.431	9.81		1
06958	Manganese	7439-96-5	325		0.0353	0.490		1
10145	Phosphorus	7723-14-0	947		0.343	9.81		1
01662	Potassium	7440-09-7	3,680		11.1	49.0		1
01667	Sodium	7440-23-5	80.0	J	5.84	98.1		1
07968	Strontium	7440-24-6	17.8		0.0245	0.490		1
06969	Tin	7440-31-5	5.16	J	0.314	9.81		1
06970	Titanium	7440-32-6	1,120		0.0696	0.981		1
10146	Zirconium	7440-67-7	0.451	U	0.451	4.90		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.554		0.0740	0.200		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.02		0.0800	0.400		2
06126	Barium	7440-39-3	113		0.106	0.400		2
06127	Beryllium	7440-41-7	0.618		0.0160	0.100		2
06128	Cadmium	7440-43-9	0.573		0.0440	0.100		2
06131	Chromium	7440-47-3	174		0.300	1.00		5
06132	Cobalt	7440-48-4	7.50		0.0200	0.100		2
06133	Copper	7440-50-8	20.5		0.0800	0.400		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-007-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA7-SS-0.0-0.5

LLI Sample # SW 6409747
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 07:45

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4510 SDG#: DE245-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	32.8	0.0102	0.200		2
06138	Molybdenum	7439-98-7	3.35	0.0500	0.100		2
06139	Nickel	7440-02-0	23.3	0.100	0.400		2
06141	Selenium	7782-49-2	0.0945 J	0.0580	0.400		2
06142	Silver	7440-22-4	0.0872 J	0.0142	0.100		2
06145	Thallium	7440-28-0	0.329	0.0300	0.100		2
06148	Vanadium	7440-62-2	40.4	0.0220	0.100		2
06149	Zinc	7440-66-6	205	1.40	7.50		5
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0107 J	0.0070	0.0991		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81 U	0.81	1.0		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1 U	9.1	30.3		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	9.2	0.20	1.0		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18 U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.89	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.0	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-007-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA7-SS-0.0-0.5

LLI Sample # SW 6409747
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 07:45

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4510 SDG#: DE245-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11266SLB026	09/29/2011 12:50	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLC026	09/29/2011 16:27	Joseph M Gambler	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLC026	09/29/2011 22:00	Gregory J Drahovsky	100
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11266SLC026	09/26/2011 10:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11266SLB026	09/26/2011 03:00	David V Hershey Jr	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670005A	09/27/2011 19:02	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112640030A	09/29/2011 08:14	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112640028A	09/23/2011 21:54	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112640030A	09/22/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112640028A	09/22/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670005A	09/26/2011 21:35	Elaine F Stoltzfus	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112600026A	09/19/2011 22:47	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620011A	09/20/2011 23:36	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112650024A	09/23/2011 21:01	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112650007A	09/24/2011 08:07	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112650007A	09/22/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112650024A	09/23/2011 07:55	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112600026A	09/19/2011 20:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620011A	09/19/2011 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112635708001	09/27/2011 01:21	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112635708001	09/27/2011 01:21	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112635708001	09/27/2011 01:21	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112635708001	09/28/2011 13:20	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	112635708001	09/27/2011 01:21	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112635708001	09/27/2011 01:21	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112635708001	09/27/2011 01:21	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112635708001	09/27/2011 01:21	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112635708001	09/27/2011 01:21	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112635708001	09/27/2011 01:21	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112635708001	09/27/2011 01:21	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112635708001	09/27/2011 01:21	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112635708001	09/27/2011 01:21	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112635708001	09/27/2011 01:21	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112631026001A	09/21/2011 11:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026001A	09/21/2011 11:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026001D	09/21/2011 11:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026001A	09/21/2011 11:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112631026001A	09/21/2011 11:18	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-007-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA7-SS-0.0-0.5

LLI Sample # SW 6409747
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 07:45

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4510 SDG#: DE245-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112631026001A	09/21/2011 12:22	Choon Y Tian	5
06132	Cobalt	SW-846 6020	1	112631026001A	09/21/2011 11:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026001A	09/21/2011 11:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026001A	09/21/2011 18:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026001C	09/21/2011 11:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026001A	09/21/2011 11:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026001B	09/21/2011 11:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026001A	09/21/2011 11:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026001A	09/21/2011 11:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026001A	09/21/2011 11:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026001A	09/21/2011 12:22	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	112635711002	09/21/2011 10:52	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708001	09/20/2011 21:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026001	09/20/2011 21:57	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711002	09/20/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11265621201A	09/24/2011 21:21	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11265621202A	09/24/2011 09:39	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11271243201A	09/30/2011 14:12	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11270102201A	09/27/2011 14:59	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11265621201A	09/22/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11265621202A	09/22/2011 08:07	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11270102201A	09/27/2011 10:15	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039402B	09/26/2011 09:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11271243201A	09/28/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403A	09/20/2011 19:11	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-157-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-SA7-SS-0.0-0.5

LLI Sample # SW 6409748
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 09:25

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4511 SDG#: DE245-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Anthracene	120-12-7	25	J	17	170		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzo(a)anthracene	56-55-3	140	J	17	170		1
04688	Benzo(a)pyrene	50-32-8	190		17	170		1
04688	Benzo(b)fluoranthene	205-99-2	310		17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	190		17	170		1
04688	Benzo(k)fluoranthene	207-08-9	140	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	47	J	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170		1
04688	Chrysene	218-01-9	260		17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	52	J	17	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	330		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170		1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	15,000		170	3,300		10
04688	Fluoranthene	206-44-0	500		17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	170		17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	33	U	33	170		1
04688	4-Methylphenol	106-44-5	33	U	33	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-157-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-157-SA7-SS-0.0-0.5

LLI Sample # SW 6409748
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 09:25

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4511 SDG#: DE245-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	33	U	33	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	270		17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenanthrene	85-01-8	230		17	170		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	460		17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	7.1	J	3.3	8.3		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.3		5
10138	Fluorene	86-73-7	5.5	J	3.3	8.3		5
10138	1-Methylnaphthalene	90-12-0	3.3	U	3.3	8.3		5
10138	2-Methylnaphthalene	91-57-6	3.3	U	3.3	8.3		5
10138	Naphthalene	91-20-3	3.3	U	3.3	8.3		5
10138	N-Nitrosodimethylamine	62-75-9	3.3	U	3.3	8.3		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	2.6		0.62	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1
10401	MCPA	94-74-6	76	U	76	250		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.091	U	0.091	0.17		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does							

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Sample Description: **SL-157-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-157-SA7-SS-0.0-0.5

LLI Sample # SW 6409748
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 09:25

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4511 SDG#: DE245-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.12	U	0.12	0.17		1
01363	Chlordane	57-74-9	1.6	J	0.80	3.4		1
01363	p,p-DDD	72-54-8	0.45	U	0.45	0.45		1
01363	p,p-DDE	72-55-9	0.87		0.066	0.34		1
01363	p,p-DDT	50-29-3	2.6	J	0.66	3.4		10
01363	Delta BHC	319-86-8	0.040	J	0.036	0.17		1
01363	Dieldrin	60-57-1	0.066	U	0.066	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.24	U	0.24	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34		1
01363	Endrin	72-20-8	0.15	U	0.15	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.62	U	0.62	0.62		1
01363	Endrin Ketone	53494-70-5	0.066	U	0.066	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.17	U	0.17	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.66	U	0.66	0.66		1
01363	Toxaphene	8001-35-2	29	U	29	29		1
	The TCX surrogate data in the associated method blank is outside the client specified limits at 43%. However, the recovery is within our in-house statistical limits of 28-121. The DCB surrogate recovery is within the client specified limits. The TCX recovery is high enough to ensure minimal impact on the data. Reporting limits were raised due to interference from the sample matrix.							
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	5.0		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	7.5		0.33	1.7		1
10225	PCB-1260	11096-82-5	8.8		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: **SL-157-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-157-SA7-SS-0.0-0.5

LLI Sample # SW 6409748
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 09:25

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4511 SDG#: DE245-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	100	U	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.0	U	4.0	12		10
10199	EFH (C15-C20)	n.a.	4.0	U	4.0	12		10
10199	EFH (C21-C30)	n.a.	73		4.0	12		10
10199	EFH (C30 - C40)	n.a.	250		4.0	12		10
10199	EFH (C8-C11)	n.a.	4.0	U	4.0	12		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,700		6.04	20.0		1
07914	Boron	7440-42-8	0.451	J	0.359	4.99		1
01650	Calcium	7440-70-2	2,560		2.50	20.0		1
01654	Iron	7439-89-6	35,900		13.0	99.8		5
01656	Lithium	7439-93-2	24.9		0.62	2.0		1
01657	Magnesium	7439-95-4	3,980		0.439	9.98		1
06958	Manganese	7439-96-5	334		0.0359	0.499		1
10145	Phosphorus	7723-14-0	579		0.349	9.98		1
01662	Potassium	7440-09-7	3,710		11.3	49.9		1
01667	Sodium	7440-23-5	86.4	J	5.94	99.8		1
07968	Strontium	7440-24-6	11.7		0.0250	0.499		1
06969	Tin	7440-31-5	4.64	J	0.319	9.98		1
06970	Titanium	7440-32-6	1,140		0.0709	0.998		1
10146	Zirconium	7440-67-7	0.459	U	0.459	4.99		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	862		3.69	9.98		100
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	235		0.399	2.00		10
06126	Barium	7440-39-3	101		0.106	0.399		2

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Sample Description: **SL-157-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-157-SA7-SS-0.0-0.5

LLI Sample # SW 6409748
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 09:25

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4511 SDG#: DE245-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.544		0.0160	0.0998		2
06128	Cadmium	7440-43-9	0.382		0.0439	0.0998		2
06131	Chromium	7440-47-3	37.9		0.120	0.399		2
06132	Cobalt	7440-48-4	10.1		0.0200	0.0998		2
06133	Copper	7440-50-8	42.3		0.0799	0.399		2
06135	Lead	7439-92-1	26,900		12.7	250		2500
06138	Molybdenum	7439-98-7	1.66		0.0499	0.0998		2
06139	Nickel	7440-02-0	22.2		0.0998	0.399		2
06141	Selenium	7782-49-2	0.119	J	0.0579	0.399		2
06142	Silver	7440-22-4	4.78		0.0142	0.0998		2
06145	Thallium	7440-28-0	0.396	J	0.299	0.998		20
	Reporting limits were raised due to interference from the sample matrix.							
06148	Vanadium	7440-62-2	50.0		0.0220	0.0998		2
06149	Zinc	7440-66-6	145		2.80	15.0		10
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0178	J	0.0067	0.0946		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.60	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.13		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.82		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-157-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-157-SA7-SS-0.0-0.5

LLI Sample # SW 6409748
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 09:25

Submitted: 09/17/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4511 SDG#: DE245-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11266SLB026	09/29/2011 13:15	Linda M Hartenstine	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11266SLB026	09/30/2011 05:14	Holly Berry	10
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLC026	09/29/2011 22:33	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11266SLC026	09/26/2011 10:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11266SLB026	09/26/2011 03:00	David V Hershey Jr	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670005A	09/27/2011 19:30	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112640030A	09/29/2011 08:28	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112640030A	09/29/2011 08:42	Melissa McDermott	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112640028A	09/23/2011 22:13	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112640030A	09/22/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112640028A	09/22/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670005A	09/26/2011 21:35	Elaine F Stoltzfus	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112600026A	09/20/2011 23:48	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620011A	09/20/2011 23:48	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112650024A	09/23/2011 22:07	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112650007A	09/24/2011 08:31	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112650007A	09/22/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112650024A	09/23/2011 07:55	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112600026A	09/19/2011 20:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620011A	09/19/2011 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112635708001	09/27/2011 01:25	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112635708001	09/27/2011 01:25	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112635708001	09/27/2011 01:25	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112635708001	09/28/2011 13:23	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	112635708001	09/27/2011 01:25	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112635708001	09/27/2011 01:25	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112635708001	09/27/2011 01:25	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112635708001	09/27/2011 01:25	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112635708001	09/27/2011 01:25	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112635708001	09/27/2011 01:25	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112635708001	09/27/2011 01:25	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112635708001	09/27/2011 01:25	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112635708001	09/27/2011 01:25	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112635708001	09/27/2011 01:25	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112631026001A	09/21/2011 12:16	Choon Y Tian	100
06125	Arsenic	SW-846 6020	1	112631026001A	09/21/2011 12:13	Choon Y Tian	10

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-157-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-SA7-SS-0.0-0.5

LLI Sample # SW 6409748
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 09:25

Submitted: 09/17/2011 09:15
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E4511 SDG#: DE245-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112631026001D	09/21/2011 11:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026001A	09/21/2011 11:21	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112631026001A	09/21/2011 11:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026001A	09/21/2011 11:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026001A	09/21/2011 11:21	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026001A	09/21/2011 11:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026001A	09/21/2011 18:21	Choon Y Tian	2500
06138	Molybdenum	SW-846 6020	1	112631026001C	09/21/2011 11:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026001A	09/21/2011 11:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026001B	09/21/2011 11:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026001A	09/21/2011 11:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	112631026001A	09/21/2011 20:22	David K Beck	20
06148	Vanadium	SW-846 6020	1	112631026001A	09/21/2011 11:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026001A	09/21/2011 12:13	Choon Y Tian	10
00159	Mercury	SW-846 7471A	1	112635711002	09/21/2011 10:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708001	09/20/2011 21:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026001	09/20/2011 21:57	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711002	09/20/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11265621201B	09/24/2011 22:11	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11265621202B	09/24/2011 11:35	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11271243201A	09/30/2011 14:32	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11270102201A	09/27/2011 15:00	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11265621201B	09/22/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11265621202B	09/22/2011 08:07	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11270102201A	09/27/2011 10:15	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039402B	09/26/2011 09:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11271243201A	09/28/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403B	09/20/2011 19:11	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-086-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA7-SS-0.0-0.5

LLI Sample # SW 6409749
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:10

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4512 SDG#: DE245-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	330		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170		1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,100		17	330		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	33	U	33	170		1
04688	4-Methylphenol	106-44-5	33	U	33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	33	U	33	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-086-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-086-SA7-SS-0.0-0.5

LLI Sample # SW 6409749
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:10

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4512 SDG#: DE245-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	140	J	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	28		3.3	8.3		5
10138	Acenaphthylene	208-96-8	2.7	J	1.7	8.3		5
10138	Anthracene	120-12-7	25		1.7	8.3		5
10138	Benzo(a)anthracene	56-55-3	210		3.3	8.3		5
10138	Benzo(a)pyrene	50-32-8	240		3.3	8.3		5
10138	Benzo(b)fluoranthene	205-99-2	370		3.3	8.3		5
10138	Benzo(g,h,i)perylene	191-24-2	140		3.3	8.3		5
10138	Benzo(k)fluoranthene	207-08-9	200		3.3	8.3		5
10138	Chrysene	218-01-9	310		1.7	8.3		5
10138	Dibenz(a,h)anthracene	53-70-3	36		3.3	8.3		5
10138	Fluoranthene	206-44-0	750		3.3	8.3		5
10138	Fluorene	86-73-7	15		3.3	8.3		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	150		3.3	8.3		5
10138	1-Methylnaphthalene	90-12-0	4.3	J	3.3	8.3		5
10138	2-Methylnaphthalene	91-57-6	3.3	U	3.3	8.3		5
10138	Naphthalene	91-20-3	5.3	J	3.3	8.3		5
10138	N-Nitrosodimethylamine	62-75-9	3.3	U	3.3	8.3		5
10138	Phenanthrene	85-01-8	380		3.3	8.3		5
10138	Pyrene	129-00-0	550		3.3	8.3		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	1.6	U	1.6	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	210	U	210	250		1
10401	2,4,5-T	93-76-5	0.99		0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory							

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Sample Description: **SL-086-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-086-SA7-SS-0.0-0.5

LLI Sample # SW 6409749
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:10

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4512 SDG#: DE245-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	J	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.042	U	0.042	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.93	U	0.93	0.93		1
01363	p,p-DDE	72-55-9	0.26	U	0.26	0.34		1
01363	p,p-DDT	50-29-3	1.5	U	1.5	1.5		1
01363	Delta BHC	319-86-8	0.081	J	0.037	0.17		1
01363	Dieldrin	60-57-1	0.38	U	0.38	0.38		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.14	U	0.14	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.27	U	0.27	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.66	U	0.66	0.66		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.25	U	0.25	0.25		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.41	U	0.41	0.41		1
01363	Toxaphene	8001-35-2	45	U	45	45		1
	The TCX surrogate data in the associated method blank is outside the client specified limits at 43%. However, the recovery is within our in-house statistical limits of 28-121. The DCB surrogate recovery is within the client specified limits. The TCX recovery is high enough to ensure minimal impact on the data. Reporting limits were raised due to interference from the sample matrix.							
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	24		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	1.9		0.33	1.7		1
10225	PCB-1260	11096-82-5	5.0		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	510		1

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Sample Description: **SL-086-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-086-SA7-SS-0.0-0.5

LLI Sample # SW 6409749
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:10

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E4512 SDG#: DE245-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.81	U	0.81	2.4		2
10199	EFH (C15-C20)	n.a.	4.8		0.81	2.4		2
10199	EFH (C21-C30)	n.a.	46		0.81	2.4		2
10199	EFH (C30 - C40)	n.a.	58		0.81	2.4		2
10199	EFH (C8-C11)	n.a.	0.81	U	0.81	2.4		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	9,150		6.14	20.3		1
07914	Boron	7440-42-8	1.83	U	1.83	25.4		5
	Reporting limits were raised due to interference from the sample matrix.							
01650	Calcium	7440-70-2	24,100		2.54	20.3		1
01654	Iron	7439-89-6	204,000		26.5	203		10
01656	Lithium	7439-93-2	17.8		0.63	2.0		1
01657	Magnesium	7439-95-4	4,000		0.446	10.1		1
06958	Manganese	7439-96-5	386		0.0365	0.507		1
10145	Phosphorus	7723-14-0	3,010		1.77	50.7		5
01662	Potassium	7440-09-7	2,620		11.5	50.7		1
01667	Sodium	7440-23-5	178		6.03	101		1
07968	Strontium	7440-24-6	40.2		0.0254	0.507		1
06969	Tin	7440-31-5	9.65	J	0.325	10.1		1
06970	Titanium	7440-32-6	861		0.0720	1.01		1
10146	Zirconium	7440-67-7	2.33	U	2.33	25.4		5
	Reporting limits were raised due to interference from the sample matrix.							
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.40		0.0736	0.199		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	23.6		0.0795	0.398		2

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Sample Description: **SL-086-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-086-SA7-SS-0.0-0.5

LLI Sample # SW 6409749
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:10

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4512 SDG#: DE245-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06126	Barium	7440-39-3	86.2		0.105	0.398		2
06127	Beryllium	7440-41-7	0.493		0.0159	0.0994		2
06128	Cadmium	7440-43-9	1.19		0.0437	0.0994		2
06131	Chromium	7440-47-3	80.0		0.119	0.398		2
06132	Cobalt	7440-48-4	18.9		0.0199	0.0994		2
06133	Copper	7440-50-8	378		0.398	1.99		10
06135	Lead	7439-92-1	53.5		0.0101	0.199		2
06138	Molybdenum	7439-98-7	3.36		0.0497	0.0994		2
06139	Nickel	7440-02-0	81.9		0.0994	0.398		2
06141	Selenium	7782-49-2	0.103	J	0.0577	0.398		2
06142	Silver	7440-22-4	0.122		0.0141	0.0994		2
06145	Thallium	7440-28-0	0.238		0.0298	0.0994		2
06148	Vanadium	7440-62-2	598		0.109	0.497		10
06149	Zinc	7440-66-6	328		2.78	14.9		10
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0273	J	0.0070	0.0999		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.83	U	0.83	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.2		0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.21		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-086-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA7-SS-0.0-0.5

LLI Sample # SW 6409749
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:10

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4512 SDG#: DE245-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11266SLB026	09/29/2011 13:40	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLC026	09/29/2011 23:06	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11266SLC026	09/26/2011 10:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11266SLB026	09/26/2011 03:00	David V Hershey Jr	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670005A	09/27/2011 20:52	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112640030A	09/29/2011 09:10	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112640028A	09/23/2011 22:31	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112640030A	09/22/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112640028A	09/22/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670005A	09/26/2011 21:35	Elaine F Stoltzfus	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112600026A	09/21/2011 00:02	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620011A	09/21/2011 00:01	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112650024A	09/23/2011 19:32	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112650007A	09/24/2011 06:08	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	112650007A	09/22/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112650024A	09/23/2011 07:55	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112600026A	09/19/2011 20:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620011A	09/19/2011 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112635708001	09/27/2011 01:37	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112635708001	09/28/2011 13:35	Joanne M Gates	5
01650	Calcium	SW-846 6010B	1	112635708001	09/27/2011 01:37	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112635708001	09/28/2011 13:39	Joanne M Gates	10
01656	Lithium	SW-846 6010B	1	112635708001	09/27/2011 01:37	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112635708001	09/27/2011 01:37	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112635708001	09/27/2011 01:37	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112635708001	09/28/2011 13:35	Joanne M Gates	5
01662	Potassium	SW-846 6010B	1	112635708001	09/27/2011 01:37	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112635708001	09/27/2011 01:37	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112635708001	09/27/2011 01:37	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112635708001	09/27/2011 01:37	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112635708001	09/27/2011 01:37	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112635708001	09/28/2011 13:35	Joanne M Gates	5
06124	Antimony	SW-846 6020	1	112631026001A	09/21/2011 11:34	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026001A	09/21/2011 11:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026001D	09/21/2011 11:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026001A	09/21/2011 11:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112631026001A	09/21/2011 11:34	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-086-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA7-SS-0.0-0.5

LLI Sample # SW 6409749
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:10

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4512 SDG#: DE245-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112631026001A	09/21/2011 11:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026001A	09/21/2011 11:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026001A	09/21/2011 12:25	Choon Y Tian	10
06135	Lead	SW-846 6020	1	112631026001A	09/21/2011 18:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026001C	09/21/2011 11:34	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026001A	09/21/2011 11:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026001B	09/21/2011 11:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026001A	09/21/2011 11:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026001A	09/21/2011 11:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026001A	09/21/2011 12:25	Choon Y Tian	10
06149	Zinc	SW-846 6020	1	112631026001A	09/21/2011 12:25	Choon Y Tian	10
00159	Mercury	SW-846 7471A	1	112635711002	09/21/2011 10:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708001	09/20/2011 21:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026001	09/20/2011 21:57	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711002	09/20/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11265621201B	09/24/2011 22:24	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11265621202B	09/24/2011 11:58	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11271243201A	09/30/2011 14:45	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11270102201A	09/27/2011 15:01	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11265621201B	09/22/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11265621202B	09/22/2011 08:07	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11270102201A	09/27/2011 10:15	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039402B	09/26/2011 09:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11271243201A	09/28/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403B	09/20/2011 19:11	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-087-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA7-SS-0.0-0.5

LLI Sample # SW 6409750
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:45

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4513 SDG#: DE245-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	270	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-087-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA7-SS-0.0-0.5

LLI Sample # SW 6409750
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:45

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4513 SDG#: DE245-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.5	J	3.4	8.4		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.4		5
10138	Anthracene	120-12-7	4.5	J	1.7	8.4		5
10138	Benzo(a)anthracene	56-55-3	25		3.4	8.4		5
10138	Benzo(a)pyrene	50-32-8	34		3.4	8.4		5
10138	Benzo(b)fluoranthene	205-99-2	86		3.4	8.4		5
10138	Benzo(g,h,i)perylene	191-24-2	25		3.4	8.4		5
10138	Benzo(k)fluoranthene	207-08-9	13		3.4	8.4		5
10138	Di-n-butylphthalate	84-74-2	53	J	30	91		5
10138	Chrysene	218-01-9	69		1.7	8.4		5
10138	Dibenz(a,h)anthracene	53-70-3	12		3.4	8.4		5
10138	Fluoranthene	206-44-0	74		3.4	8.4		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.4		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	14		3.4	8.4		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.4		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.4		5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4		5
10138	Phenanthrene	85-01-8	41		3.4	8.4		5
10138	Pyrene	129-00-0	59		3.4	8.4		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	0.63	U	0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	1.7	U	1.7	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	78	U	78	260		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	0.40	U	0.40	0.40		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-087-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA7-SS-0.0-0.5

LLI Sample # SW 6409750
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:45

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4513 SDG#: DE245-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.34	U	0.34	0.85		5
01363	Alpha BHC	319-84-6	0.17	U	0.17	0.85		5
01363	Beta BHC	319-85-7	0.31	U	0.31	0.85		5
01363	Gamma BHC - Lindane	58-89-9	0.17	U	0.17	0.85		5
01363	Chlordane	57-74-9	4.1	U	4.1	17		5
01363	p,p-DDD	72-54-8	0.34	U	0.34	1.7		5
01363	p,p-DDE	72-55-9	0.71	U	0.71	1.7		5
01363	p,p-DDT	50-29-3	6.3		0.34	1.7		5
01363	Delta BHC	319-86-8	0.18	U	0.18	0.85		5
01363	Dieldrin	60-57-1	0.36	U	0.36	1.7		5
01363	Endosulfan I	959-98-8	0.23	U	0.23	0.85		5
01363	Endosulfan II	33213-65-9	0.53	U	0.53	1.7		5
01363	Endosulfan Sulfate	1031-07-8	0.34	U	0.34	1.7		5
01363	Endrin	72-20-8	0.34	U	0.34	1.7		5
01363	Endrin Aldehyde	7421-93-4	0.34	U	0.34	1.7		5
01363	Endrin Ketone	53494-70-5	1.2	U	1.2	1.7		5
01363	Heptachlor	76-44-8	0.31	U	0.31	0.85		5
01363	Heptachlor Epoxide	1024-57-3	0.17	U	0.17	0.85		5
01363	Methoxychlor	72-43-5	1.7	U	1.7	8.5		5
01363	Mirex	2385-85-5	1.6	U	1.6	1.7		5
01363	Toxaphene	8001-35-2	11	U	11	34		5
	The TCX surrogate data in the associated method blank is outside the client specified limits at 43%. However, the recovery is within our in-house statistical limits of 28-121. The DCB surrogate recovery is within the client specified limits. The TCX recovery is high enough to ensure minimal impact on the data. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	10		0.34	1.7		1
10225	PCB-1260	11096-82-5	7.8		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-087-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA7-SS-0.0-0.5

LLI Sample # SW 6409750
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:45

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4513 SDG#: DE245-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	20	U	20	61		50
10199	EFH (C15-C20)	n.a.	20	U	20	61		50
10199	EFH (C21-C30)	n.a.	320		20	61		50
10199	EFH (C30 - C40)	n.a.	1,700		20	61		50
10199	EFH (C8-C11)	n.a.	20	U	20	61		50
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,300		6.14	20.3		1
07914	Boron	7440-42-8	1.82	J	0.365	5.07		1
01650	Calcium	7440-70-2	16,100		2.54	20.3		1
01654	Iron	7439-89-6	38,000		13.2	101		5
01656	Lithium	7439-93-2	23.9		0.63	2.0		1
01657	Magnesium	7439-95-4	4,540		0.446	10.1		1
06958	Manganese	7439-96-5	290		0.0365	0.507		1
10145	Phosphorus	7723-14-0	842		0.355	10.1		1
01662	Potassium	7440-09-7	3,620		11.5	50.7		1
01667	Sodium	7440-23-5	153		6.04	101		1
07968	Strontium	7440-24-6	32.5		0.0254	0.507		1
06969	Tin	7440-31-5	3.32	J	0.325	10.1		1
06970	Titanium	7440-32-6	1,150		0.0720	1.01		1
10146	Zirconium	7440-67-7	0.467	U	0.467	5.07		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	2.06		0.0743	0.201		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.37		0.0804	0.402		2
06126	Barium	7440-39-3	110		0.266	1.00		5
06127	Beryllium	7440-41-7	0.752		0.0161	0.100		2
06128	Cadmium	7440-43-9	0.656		0.0442	0.100		2
06131	Chromium	7440-47-3	28.0		0.121	0.402		2
06132	Cobalt	7440-48-4	11.2		0.0201	0.100		2
06133	Copper	7440-50-8	17.4		0.0804	0.402		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-087-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA7-SS-0.0-0.5

LLI Sample # SW 6409750
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:45

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4513 SDG#: DE245-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	22.1		0.0102	0.201		2
06138	Molybdenum	7439-98-7	0.971		0.0502	0.100		2
06139	Nickel	7440-02-0	25.4		0.100	0.402		2
06141	Selenium	7782-49-2	0.182	J	0.0583	0.402		2
06142	Silver	7440-22-4	0.112		0.0143	0.100		2
06145	Thallium	7440-28-0	0.402		0.0301	0.100		2
06148	Vanadium	7440-62-2	77.5		0.0221	0.100		2
06149	Zinc	7440-66-6	153		0.563	3.01		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0275	J	0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	2.0		0.21	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.99		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-087-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA7-SS-0.0-0.5

LLI Sample # SW 6409750
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:45

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4513 SDG#: DE245-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11266SLB026	09/29/2011 14:05	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLC026	09/29/2011 23:39	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11266SLC026	09/26/2011 10:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11266SLB026	09/26/2011 03:00	David V Hershey Jr	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670005A	09/27/2011 21:20	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112640030A	09/29/2011 10:20	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112640028A	09/23/2011 22:50	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112640030A	09/22/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112640028A	09/22/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670005A	09/26/2011 21:35	Elaine F Stoltzfus	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112600026A	09/21/2011 00:17	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620011A	09/21/2011 00:14	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112650024A	09/23/2011 22:51	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112650007A	09/24/2011 10:06	Heather E Williams	50
11238	EFH Extraction - Soils	SW-846 3550B	1	112650007A	09/22/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112650024A	09/23/2011 07:55	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112600026A	09/19/2011 20:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620011A	09/19/2011 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112635708001	09/27/2011 01:41	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112635708001	09/27/2011 01:41	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112635708001	09/27/2011 01:41	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112635708001	09/28/2011 13:46	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	112635708001	09/27/2011 01:41	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112635708001	09/27/2011 01:41	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112635708001	09/27/2011 01:41	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112635708001	09/27/2011 01:41	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112635708001	09/27/2011 01:41	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112635708001	09/27/2011 01:41	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112635708001	09/27/2011 01:41	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112635708001	09/27/2011 01:41	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112635708001	09/27/2011 01:41	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112635708001	09/27/2011 01:41	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112631026001A	09/21/2011 11:24	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026001A	09/21/2011 11:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026001D	09/21/2011 12:28	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	112631026001A	09/21/2011 11:24	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112631026001A	09/21/2011 11:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026001A	09/21/2011 11:24	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-087-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA7-SS-0.0-0.5

LLI Sample # SW 6409750
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:45

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4513 SDG#: DE245-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	112631026001A	09/21/2011 11:24	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026001A	09/21/2011 11:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026001A	09/21/2011 18:25	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026001C	09/21/2011 11:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026001A	09/21/2011 11:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026001B	09/21/2011 11:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026001A	09/21/2011 11:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026001A	09/21/2011 11:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026001A	09/21/2011 11:24	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026001A	09/21/2011 11:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112635711002	09/21/2011 10:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708001	09/20/2011 21:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026001	09/20/2011 21:57	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711002	09/20/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11265621201B	09/24/2011 22:37	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11265621202B	09/24/2011 12:21	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11271243201A	09/30/2011 14:58	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11270102201A	09/27/2011 15:02	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11265621201B	09/22/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11265621202B	09/22/2011 08:07	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11270102201A	09/27/2011 10:15	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039402B	09/26/2011 09:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11271243201A	09/28/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403B	09/20/2011 19:11	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-026-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA7-SS-0.0-0.5

LLI Sample # SW 6409751
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 15:35

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4514 SDG#: DE245-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	330		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170		1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	240	J	17	330		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	33	U	33	170		1
04688	4-Methylphenol	106-44-5	33	U	33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	33	U	33	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Sample Description: **SL-026-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA7-SS-0.0-0.5

LLI Sample # SW 6409751
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 15:35

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4514 SDG#: DE245-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	140	J	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.3	U	3.3	8.3		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.3		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.3		5
10138	Benzo(a)anthracene	56-55-3	3.3	U	3.3	8.3		5
10138	Benzo(a)pyrene	50-32-8	3.3	U	3.3	8.3		5
10138	Benzo(b)fluoranthene	205-99-2	8.3	J	3.3	8.3		5
10138	Benzo(g,h,i)perylene	191-24-2	3.3	U	3.3	8.3		5
10138	Benzo(k)fluoranthene	207-08-9	3.3	U	3.3	8.3		5
10138	Chrysene	218-01-9	7.0	J	1.7	8.3		5
10138	Dibenz(a,h)anthracene	53-70-3	3.3	U	3.3	8.3		5
10138	Fluoranthene	206-44-0	16		3.3	8.3		5
10138	Fluorene	86-73-7	3.3	U	3.3	8.3		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.3	U	3.3	8.3		5
10138	1-Methylnaphthalene	90-12-0	3.3	U	3.3	8.3		5
10138	2-Methylnaphthalene	91-57-6	3.3	U	3.3	8.3		5
10138	Naphthalene	91-20-3	3.3	U	3.3	8.3		5
10138	N-Nitrosodimethylamine	62-75-9	3.3	U	3.3	8.3		5
10138	Phenanthrene	85-01-8	5.3	J	3.3	8.3		5
10138	Pyrene	129-00-0	9.7		3.3	8.3		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	13	U	13	13		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	2.7	U	2.7	2.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.22	U	0.22	0.22		1
10401	2,4,5-TP	93-72-1	0.15	U	0.15	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory							

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Sample Description: **SL-026-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA7-SS-0.0-0.5

LLI Sample # SW 6409751
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 15:35

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4514 SDG#: DE245-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	5.2		0.81	3.4		1
01363	p,p-DDD	72-54-8	0.14	U	0.14	0.34		1
01363	p,p-DDE	72-55-9	1.4		0.067	0.34		1
01363	p,p-DDT	50-29-3	2.8		0.067	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.22	U	0.22	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.12	U	0.12	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.081	U	0.081	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.12	U	0.12	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	The TCX surrogate data in the associated method blank is outside the client specified limits at 43%. However, the recovery is within our in-house statistical limits of 28-121. The DCB surrogate recovery is within the client specified limits. The TCX recovery is high enough to ensure minimal impact on the data. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	11		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	3.4		0.33	1.7		1
10225	PCB-1260	11096-82-5	2.4		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,000		6.06	20.0		1
07914	Boron	7440-42-8	2.13	J	0.360	5.01		1
01650	Calcium	7440-70-2	3,470		2.50	20.0		1
01654	Iron	7439-89-6	19,800		2.61	20.0		1

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Sample Description: **SL-026-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA7-SS-0.0-0.5

LLI Sample # SW 6409751
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 15:35

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4514 SDG#: DE245-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	27.8		0.62	2.0		1
01657	Magnesium	7439-95-4	4,470		0.440	10.0		1
06958	Manganese	7439-96-5	301		0.0360	0.501		1
10145	Phosphorus	7723-14-0	469		0.350	10.0		1
01662	Potassium	7440-09-7	3,650		11.3	50.1		1
01667	Sodium	7440-23-5	75.4	J	5.96	100		1
07968	Strontium	7440-24-6	20.4		0.0250	0.501		1
06969	Tin	7440-31-5	3.00	J	0.320	10.0		1
06970	Titanium	7440-32-6	1,240		0.0711	1.00		1
10146	Zirconium	7440-67-7	0.461	U	0.461	5.01		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.256		0.0734	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.88		0.0793	0.397		2
06126	Barium	7440-39-3	118		0.105	0.397		2
06127	Beryllium	7440-41-7	0.691		0.0159	0.0991		2
06128	Cadmium	7440-43-9	0.279		0.0436	0.0991		2
06131	Chromium	7440-47-3	19.7		0.119	0.397		2
06132	Cobalt	7440-48-4	6.99		0.0198	0.0991		2
06133	Copper	7440-50-8	10.6		0.0793	0.397		2
06135	Lead	7439-92-1	14.8		0.0101	0.198		2
06138	Molybdenum	7439-98-7	0.764		0.0496	0.0991		2
06139	Nickel	7440-02-0	12.3		0.0991	0.397		2
06141	Selenium	7782-49-2	0.172	J	0.0575	0.397		2
06142	Silver	7440-22-4	0.0368	J	0.0141	0.0991		2
06145	Thallium	7440-28-0	0.312		0.0297	0.0991		2
06148	Vanadium	7440-62-2	38.6		0.0218	0.0991		2
06149	Zinc	7440-66-6	168		0.555	2.97		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0284	J	0.0069	0.0986		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.48	J	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.91		0.0100	0.0100		1

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Sample Description: **SL-026-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA7-SS-0.0-0.5

LLI Sample # SW 6409751
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 15:35

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4514 SDG#: DE245-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	1.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11266SLB026	09/29/2011 14:30	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLC026	09/30/2011 00:12	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11266SLC026	09/26/2011 10:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11266SLB026	09/26/2011 03:00	David V Hershey Jr	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670005A	09/27/2011 21:48	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112640030A	09/29/2011 09:52	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112640028A	09/23/2011 23:09	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112640030A	09/22/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112640028A	09/22/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670005A	09/26/2011 21:35	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	112635708001	09/27/2011 01:45	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112635708001	09/27/2011 01:45	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112635708001	09/27/2011 01:45	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112635708001	09/27/2011 01:45	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112635708001	09/27/2011 01:45	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112635708001	09/27/2011 01:45	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112635708001	09/27/2011 01:45	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112635708001	09/27/2011 01:45	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112635708001	09/27/2011 01:45	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112635708001	09/27/2011 01:45	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112635708001	09/27/2011 01:45	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112635708001	09/27/2011 01:45	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112635708001	09/27/2011 01:45	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112635708001	09/27/2011 01:45	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112631026001A	09/21/2011 11:37	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026001A	09/21/2011 11:37	Choon Y Tian	2

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Sample Description: SL-026-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA7-SS-0.0-0.5

LLI Sample # SW 6409751
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 15:35

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

E4514 SDG#: DE245-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112631026001D	09/21/2011 11:37	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026001A	09/21/2011 11:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112631026001A	09/21/2011 11:37	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026001A	09/21/2011 11:37	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026001A	09/21/2011 11:37	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026001A	09/21/2011 11:37	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026001A	09/21/2011 18:26	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026001C	09/21/2011 11:37	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026001A	09/21/2011 11:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026001B	09/21/2011 11:37	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026001A	09/21/2011 11:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026001A	09/21/2011 11:37	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026001A	09/21/2011 11:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026001A	09/21/2011 11:37	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112635711002	09/21/2011 10:57	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708001	09/20/2011 21:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026001	09/20/2011 21:57	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711002	09/20/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11265621201B	09/24/2011 23:15	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11265621202B	09/24/2011 12:44	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11271243201A	09/30/2011 15:12	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11265621201B	09/22/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11265621202B	09/22/2011 08:07	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039402B	09/26/2011 09:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11271243201A	09/28/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403B	09/20/2011 19:11	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-008-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409752
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4515 SDG#: DE245-15BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzo(g,h,i)perylene	191-24-2	120	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	26	J	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170		1
04688	4-Chloroaniline	106-47-8	66	U	66	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	99	U	99	330		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170		1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	990		1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	370		17	330		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	66	U	66	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	120	J	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	33	U	33	170		1
04688	4-Methylphenol	106-44-5	33	U	33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	33	U	33	170		1
04688	4-Nitroaniline	100-01-6	66	U	66	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1

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SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409752
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4515 SDG#: DE245-15BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	120	J	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	12		3.3	8.3		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.3		5
10138	Anthracene	120-12-7	29		1.7	8.3		5
10138	Benzo(a)anthracene	56-55-3	220		3.3	8.3		5
10138	Benzo(a)pyrene	50-32-8	240		3.3	8.3		5
10138	Benzo(b)fluoranthene	205-99-2	400		3.3	8.3		5
10138	Benzo(k)fluoranthene	207-08-9	170		3.3	8.3		5
10138	Chrysene	218-01-9	280		1.7	8.3		5
10138	Dibenz(a,h)anthracene	53-70-3	32		3.3	8.3		5
10138	Fluoranthene	206-44-0	690		3.3	8.3		5
10138	Fluorene	86-73-7	7.7	J	3.3	8.3		5
10138	1-Methylnaphthalene	90-12-0	3.3	U	3.3	8.3		5
10138	2-Methylnaphthalene	91-57-6	3.3	U	3.3	8.3		5
10138	Naphthalene	91-20-3	3.3	U	3.3	8.3		5
10138	N-Nitrosodimethylamine	62-75-9	3.3	U	3.3	8.3		5
10138	Phenanthrene	85-01-8	290		3.3	8.3		5
10138	Pyrene	129-00-0	490		3.3	8.3		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	4.4		0.63	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory							

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LLI Sample # SW 6409752
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4515 SDG#: DE245-15BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
statistical limits of 0-36%, the data is reported.								
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.87	U	0.87	0.87		1
01363	p,p-DDE	72-55-9	0.13	U	0.13	0.34		1
01363	p,p-DDT	50-29-3	0.48	U	0.48	0.48		1
01363	Delta BHC	319-86-8	0.056	J	0.036	0.17		1
01363	Dieldrin	60-57-1	0.089	U	0.089	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.11	U	0.11	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.34	U	0.34	0.34		1
01363	Endrin	72-20-8	0.26	U	0.26	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.50	U	0.50	0.50		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.056	U	0.056	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.34	U	0.34	0.34		1
01363	Toxaphene	8001-35-2	29	U	29	29		1

The TCX surrogate data in the associated method blank is outside the client specified limits at 43%. However, the recovery is within our in-house statistical limits of 28-121. The DCB surrogate recovery is within the client specified limits. The TCX recovery is high enough to ensure minimal impact on the data.
Reporting limits were raised due to interference from the sample matrix.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	5.0		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	3.0		0.33	1.7		1
10225	PCB-1260	11096-82-5	2.9		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1

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Sample Description: **SL-008-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409752
LLI Group # 1266997
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E4515 SDG#: DE245-15BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Methanol	67-56-1	100	U	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.81	U	0.81	2.4		2
10199	EFH (C15-C20)	n.a.	2.3	J	0.81	2.4		2
10199	EFH (C21-C30)	n.a.	21		0.81	2.4		2
10199	EFH (C30 - C40)	n.a.	38		0.81	2.4		2
10199	EFH (C8-C11)	n.a.	0.81	U	0.81	2.4		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,600		5.92	19.6		1
07914	Boron	7440-42-8	1.56	J	0.353	4.90		1
01650	Calcium	7440-70-2	2,770		2.45	19.6		1
01654	Iron	7439-89-6	18,400		2.56	19.6		1
01656	Lithium	7439-93-2	24.7		0.61	2.0		1
01657	Magnesium	7439-95-4	3,860		0.431	9.79		1
06958	Manganese	7439-96-5	270		0.0353	0.490		1
10145	Phosphorus	7723-14-0	371		0.343	9.79		1
01662	Potassium	7440-09-7	3,290		11.1	49.0		1
01667	Sodium	7440-23-5	71.5	J	5.83	97.9		1
07968	Strontium	7440-24-6	11.7		0.0245	0.490		1
06969	Tin	7440-31-5	2.96	J	0.313	9.79		1
06970	Titanium	7440-32-6	1,180		0.0695	0.979		1
10146	Zirconium	7440-67-7	0.450	U	0.450	4.90		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.409		0.0732	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.85		0.0791	0.396		2
06126	Barium	7440-39-3	116		0.105	0.396		2
06127	Beryllium	7440-41-7	0.643		0.0158	0.0989		2
06128	Cadmium	7440-43-9	0.199		0.0435	0.0989		2

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SL-008-SA7-SS-0.0-0.5

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E4515 SDG#: DE245-15BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	18.7	0.119	0.396		2
06132	Cobalt	7440-48-4	7.20	0.0198	0.0989		2
06133	Copper	7440-50-8	10.6	0.0791	0.396		2
06135	Lead	7439-92-1	17.4	0.0101	0.198		2
06138	Molybdenum	7439-98-7	0.689	0.0494	0.0989		2
06139	Nickel	7440-02-0	11.3	0.0989	0.396		2
06141	Selenium	7782-49-2	0.101 J	0.0574	0.396		2
06142	Silver	7440-22-4	0.0252 J	0.0140	0.0989		2
06145	Thallium	7440-28-0	0.384	0.0297	0.0989		2
06148	Vanadium	7440-62-2	39.7	0.0218	0.0989		2
06149	Zinc	7440-66-6	165	0.554	2.97		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0070 U	0.0070	0.0996		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4	0.80	1.0		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1 U	9.1	30.3		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36 J	0.20	1.0		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18 U	0.18	0.49		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.44	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.85	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-008-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409752
LLI Group # 1266997
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E4515 SDG#: DE245-15BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11266SLB026	09/29/2011 11:09	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLC026	09/29/2011 09:40	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11266SLC026	09/26/2011 10:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11266SLB026	09/26/2011 03:00	David V Hershey Jr	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670005A	09/27/2011 16:45	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112640030A	09/29/2011 11:03	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112640028A	09/23/2011 23:28	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112640030A	09/22/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112640028A	09/22/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670005A	09/26/2011 21:35	Elaine F Stoltzfus	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112640035A	09/22/2011 20:35	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620011A	09/21/2011 00:27	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112650024A	09/23/2011 18:27	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112650007A	09/24/2011 06:32	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	112650007A	09/22/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112650024A	09/23/2011 07:55	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112640035A	09/22/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620011A	09/19/2011 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112635708001	09/27/2011 00:13	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112635708001	09/27/2011 00:13	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112635708001	09/27/2011 00:13	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112635708001	09/27/2011 00:13	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112635708001	09/27/2011 00:13	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112635708001	09/27/2011 00:13	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112635708001	09/27/2011 00:13	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112635708001	09/27/2011 00:13	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112635708001	09/27/2011 00:13	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112635708001	09/27/2011 00:13	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112635708001	09/27/2011 00:13	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112635708001	09/27/2011 00:13	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112635708001	09/27/2011 00:13	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112635708001	09/27/2011 00:13	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112631026001A	09/21/2011 10:25	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026001A	09/21/2011 10:25	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026001D	09/21/2011 10:25	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026001A	09/21/2011 10:25	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112631026001A	09/21/2011 10:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026001A	09/21/2011 10:25	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026001A	09/21/2011 10:25	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-008-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409752
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4515 SDG#: DE245-15BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	112631026001A	09/21/2011 10:25	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026001A	09/21/2011 17:40	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026001C	09/21/2011 10:25	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026001A	09/21/2011 10:25	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026001B	09/21/2011 10:25	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026001A	09/21/2011 10:25	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026001A	09/21/2011 10:25	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026001A	09/21/2011 10:25	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026001A	09/21/2011 10:25	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112635711002	09/21/2011 10:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708001	09/20/2011 21:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026001	09/20/2011 21:57	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711002	09/20/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11265621201B	09/24/2011 21:33	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11265621202B	09/24/2011 10:02	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11271243201A	09/30/2011 15:25	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11270102201A	09/27/2011 15:03	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11265621201B	09/22/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11265621202B	09/22/2011 08:07	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11270102201A	09/27/2011 10:15	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039402B	09/26/2011 09:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11271243201A	09/28/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403B	09/20/2011 19:11	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-008-SA7-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409753
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4515 SDG#: DE245-15MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600		17	170		1
04688	Acenaphthylene	208-96-8	1,800		17	170		1
04688	Aniline	62-53-3	900		170	500		1
04688	Anthracene	120-12-7	1,600		17	170		1
04688	Benzidine	92-87-5	2,300	J	1,200	3,300		1
04688	Benzo(a)anthracene	56-55-3	1,500		17	170		1
04688	Benzo(a)pyrene	50-32-8	1,700		17	170		1
04688	Benzo(b)fluoranthene	205-99-2	1,600		17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	1,700		17	170		1
04688	Benzo(k)fluoranthene	207-08-9	1,600		17	170		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	1,600		170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	1,500		17	170		1
04688	Butylbenzylphthalate	85-68-7	1,700		17	170		1
04688	Di-n-butylphthalate	84-74-2	1,700		17	170		1
04688	Carbazole	86-74-8	1,600		17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	1,600		33	170		1
04688	4-Chloroaniline	106-47-8	780		66	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,500		17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,500		17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,400		17	170		1
04688	2-Chloronaphthalene	91-58-7	1,400		17	170		1
04688	2-Chlorophenol	95-57-8	1,700		17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,500		33	170		1
04688	Chrysene	218-01-9	1,400		17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	1,700		17	170		1
04688	Dibenzofuran	132-64-9	1,500		17	170		1
04688	1,2-Dichlorobenzene	95-50-1	1,500		17	170		1
04688	1,3-Dichlorobenzene	541-73-1	1,500		17	170		1
04688	1,4-Dichlorobenzene	106-46-7	1,400		17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	880		99	330		1
04688	2,4-Dichlorophenol	120-83-2	1,500		17	170		1
04688	Diethylphthalate	84-66-2	1,600		17	170		1
04688	2,4-Dimethylphenol	105-67-9	1,700		33	170		1
04688	3,5-Dimethylphenol	108-68-9	1,600		33	170		1
04688	Dimethylphthalate	131-11-3	1,600		17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	990		1
04688	2,4-Dinitrotoluene	121-14-2	1,400		33	170		1
04688	2,6-Dinitrotoluene	606-20-2	1,600		17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	1,700		17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,000		17	330		1
04688	Fluoranthene	206-44-0	1,600		17	170		1
04688	Fluorene	86-73-7	1,600		17	170		1
04688	Hexachlorobenzene	118-74-1	1,500		17	170		1
04688	Hexachlorobutadiene	87-68-3	1,500		66	170		1
04688	Hexachlorocyclopentadiene	77-47-4	1,400		170	500		1
04688	Hexachloroethane	67-72-1	1,500		17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800		17	170		1
04688	Isophorone	78-59-1	1,600		17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-008-SA7-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409753
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4515 SDG#: DE245-15MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1-Methylnaphthalene	90-12-0	1,500		17	170		1
04688	2-Methylnaphthalene	91-57-6	1,600		17	170		1
04688	2-Methylphenol	95-48-7	1,700		33	170		1
04688	4-Methylphenol	106-44-5	1,500		33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,600		17	170		1
04688	2-Nitroaniline	88-74-4	1,600		17	170		1
04688	3-Nitroaniline	99-09-2	1,500		33	170		1
04688	4-Nitroaniline	100-01-6	1,000		66	170		1
04688	Nitrobenzene	98-95-3	1,700		17	170		1
04688	2-Nitrophenol	88-75-5	1,200		17	170		1
04688	4-Nitrophenol	100-02-7	760		170	500		1
04688	N-Nitrosodimethylamine	62-75-9	1,500		33	170		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,400		17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	1,700		17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	1,900		17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenanthrene	85-01-8	1,600		17	170		1
04688	Phenol	108-95-2	1,600		17	170		1
04688	Pyrene	129-00-0	1,600		17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	1,500		17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	1,200		33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	1,200		33	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	42		3.3	8.3		5
10138	Acenaphthylene	208-96-8	27		1.7	8.3		5
10138	Anthracene	120-12-7	43		1.7	8.3		5
10138	Benzo(a)anthracene	56-55-3	150		3.3	8.3		5
10138	Benzo(a)pyrene	50-32-8	190		3.3	8.3		5
10138	Benzo(b)fluoranthene	205-99-2	330		3.3	8.3		5
10138	Benzo(g,h,i)perylene	191-24-2	94		3.3	8.3		5
10138	Benzo(k)fluoranthene	207-08-9	150		3.3	8.3		5
10138	Butylbenzylphthalate	85-68-7	39	J	30	89		5
10138	Di-n-butylphthalate	84-74-2	37	J	30	89		5
10138	Chrysene	218-01-9	240		1.7	8.3		5
10138	Dibenz(a,h)anthracene	53-70-3	38		3.3	8.3		5
10138	Diethylphthalate	84-66-2	35	J	30	89		5
10138	Dimethylphthalate	131-11-3	30	U	30	89		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	110		30	89		5

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Sample Description: SL-008-SA7-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409753
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4515 SDG#: DE245-15MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	560		3.3	8.3		5
10138	Fluorene	86-73-7	35		3.3	8.3		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	100		3.3	8.3		5
10138	1-Methylnaphthalene	90-12-0	27		3.3	8.3		5
10138	2-Methylnaphthalene	91-57-6	26		3.3	8.3		5
10138	Naphthalene	91-20-3	28		3.3	8.3		5
10138	N-Nitrosodimethylamine	62-75-9	24		3.3	8.3		5
10138	Di-n-octylphthalate	117-84-0	33	J	30	89		5
10138	Phenanthrene	85-01-8	320		3.3	8.3		5
10138	Pyrene	129-00-0	400		3.3	8.3		5
Reporting limits were raised due to interference from the sample matrix.								
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	8.2		1.2	3.6		1
10401	Dalapon	75-99-0	15		4.4	9.1		1
10401	2,4-DB	94-82-6	8.9		0.63	1.7		1
10401	Dicamba	1918-00-9	1.3		0.40	1.2		1
10401	Dinoseb	88-85-7	0.97	J	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	8.4		0.81	1.7		1
10401	MCPA	94-74-6	430		77	250		1
10401	MCPP (Mecoprop)	93-65-2	190	J	76	250		1
10401	2,4,5-T	93-76-5	0.15	J	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.46		0.076	0.17		1
The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.								
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.22		0.067	0.17		1
01363	Alpha BHC	319-84-6	0.22		0.034	0.17		1
01363	Beta BHC	319-85-7	0.20		0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.23		0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	3.9		0.067	0.34		1
01363	p,p-DDE	72-55-9	0.67		0.067	0.34		1
01363	p,p-DDT	50-29-3	1.2		0.067	0.34		1
01363	Delta BHC	319-86-8	0.27		0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.22		0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.75		0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.47		0.067	0.34		1
01363	Endrin	72-20-8	0.54		0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.46		0.067	0.34		1
01363	Heptachlor	76-44-8	0.25		0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.30		0.034	0.17		1
01363	Methoxychlor	72-43-5	5.7		0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	16	U	16	16		1

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Sample Description: **SL-008-SA7-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409753
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4515 SDG#: DE245-15MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The TCX surrogate data in the associated method blank is outside the client specified limits at 43%. However, the recovery is within our in-house statistical limits of 28-121. The DCB surrogate recovery is within the client specified limits. The TCX recovery is high enough to ensure minimal impact on the data. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	7.3		1.0	3.3		1
10225	PCB-1016	12674-11-2	14		0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	5.1		0.33	1.7		1
10225	PCB-1260	11096-82-5	14		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	2,300		100	500		1
10501	Isopropanol	67-63-0	2,400		100	500		1
10501	Methanol	67-56-1	2,400		100	500		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	31		5.0	10		1
08283	Ethylene glycol	107-21-1	85		5.0	10		1
08283	Propylene glycol	57-55-6	100		5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	7.6		1.5	3.5		1
10318	o-Terphenyl	84-15-1	7.8		1.5	3.5		1
10318	p-Terphenyl	92-94-4	7.9		1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.90	J	0.81	2.4		2
10199	EFH (C15-C20)	n.a.	4.4		0.81	2.4		2
10199	EFH (C21-C30)	n.a.	31		0.81	2.4		2
10199	EFH (C30 - C40)	n.a.	53		0.81	2.4		2
10199	EFH (C8-C11)	n.a.	0.81	U	0.81	2.4		2
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	13,700		6.10	20.2		1

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-008-SA7-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409753
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4515 SDG#: DE245-15MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	203	0.363	5.04		1
01650	Calcium	7440-70-2	3,100	2.52	20.2		1
01654	Iron	7439-89-6	18,100	2.63	20.2		1
01656	Lithium	7439-93-2	126	0.63	2.0		1
01657	Magnesium	7439-95-4	3,910	0.444	10.1		1
06958	Manganese	7439-96-5	312	0.0363	0.504		1
10145	Phosphorus	7723-14-0	456	0.353	10.1		1
01662	Potassium	7440-09-7	4,390	11.4	50.4		1
01667	Sodium	7440-23-5	1,040	6.00	101		1
07968	Strontium	7440-24-6	111	0.0252	0.504		1
06969	Tin	7440-31-5	373	0.323	10.1		1
06970	Titanium	7440-32-6	1,320	0.0716	1.01		1
10146	Zirconium	7440-67-7	100	0.464	5.04		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.895	0.0739	0.200		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.99	0.0799	0.399		2
06126	Barium	7440-39-3	110	0.106	0.399		2
06127	Beryllium	7440-41-7	1.55	0.0160	0.0999		2
06128	Cadmium	7440-43-9	1.55	0.0439	0.0999		2
06131	Chromium	7440-47-3	27.5	0.120	0.399		2
06132	Cobalt	7440-48-4	70.7	0.0200	0.0999		2
06133	Copper	7440-50-8	18.9	0.0799	0.399		2
06135	Lead	7439-92-1	19.7	0.0102	0.200		2
06138	Molybdenum	7439-98-7	14.4	0.0499	0.0999		2
06139	Nickel	7440-02-0	21.0	0.0999	0.399		2
06141	Selenium	7782-49-2	2.70	0.0579	0.399		2
06142	Silver	7440-22-4	13.7	0.0142	0.0999		2
06145	Thallium	7440-28-0	0.850	0.0300	0.0999		2
06148	Vanadium	7440-62-2	44.0	0.0220	0.0999		2
06149	Zinc	7440-66-6	144	0.559	3.00		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.184	0.0071	0.100		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.2	0.80	1.0		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	569	9.1	30.3		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	35.8	1.0	5.0		5

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Sample Description: **SL-008-SA7-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409753
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4515 SDG#: DE245-15MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		mg/kg	mg/kg	mg/kg	mg/kg	
05895	16a Cyanide by 9012B	57-12-5	4.7	0.18	0.49		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	0.85	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11266SLB026	09/29/2011 02:48	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLC026	09/29/2011 10:14	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11266SLC026	09/26/2011 10:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11266SLB026	09/26/2011 03:00	David V Hershey Jr	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670005A	09/27/2011 17:12	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112640030A	09/29/2011 11:17	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112640028A	09/23/2011 23:47	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112640030A	09/22/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112640028A	09/22/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670005A	09/26/2011 21:35	Elaine F Stoltzfus	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112640035A	09/22/2011 20:50	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620011A	09/21/2011 04:31	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112650024A	09/23/2011 18:49	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112650007A	09/24/2011 06:56	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	112650007A	09/22/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112650024A	09/23/2011 07:55	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112640035A	09/22/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620011A	09/19/2011 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112635708001	09/27/2011 00:25	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112635708001	09/27/2011 00:25	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112635708001	09/27/2011 00:25	John W Yanzuk II	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-008-SA7-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409753
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4515 SDG#: DE245-15MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	112635708001	09/27/2011 00:25	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112635708001	09/27/2011 00:25	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112635708001	09/27/2011 00:25	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112635708001	09/27/2011 00:25	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112635708001	09/27/2011 00:25	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112635708001	09/27/2011 00:25	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112635708001	09/27/2011 00:25	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112635708001	09/27/2011 00:25	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112635708001	09/27/2011 00:25	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112635708001	09/27/2011 00:25	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112635708001	09/27/2011 00:25	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112631026001A	09/21/2011 10:34	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026001A	09/21/2011 10:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026001D	09/21/2011 10:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026001A	09/21/2011 10:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112631026001A	09/21/2011 10:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026001A	09/21/2011 10:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026001A	09/21/2011 10:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026001A	09/21/2011 10:34	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026001A	09/21/2011 17:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026001C	09/21/2011 10:34	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026001A	09/21/2011 10:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026001B	09/21/2011 10:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026001A	09/21/2011 10:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026001A	09/21/2011 10:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026001A	09/21/2011 10:34	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026001A	09/21/2011 17:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112635711002	09/21/2011 11:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708001	09/20/2011 21:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026001	09/20/2011 21:57	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711002	09/20/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11265621201B	09/24/2011 21:59	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11265621202B	09/24/2011 11:12	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11271243201A	09/30/2011 15:32	Elyse P Brunstetter	5
05895	16a Cyanide by 9012B	SW-846 9012B	1	11270102201A	09/27/2011 15:06	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11265621201B	09/22/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11265621202B	09/22/2011 08:07	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11270102201A	09/27/2011 10:15	Nancy J Shoop	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11271243201A	09/28/2011 10:30	Yolunder Y Bunch	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403B	09/20/2011 19:11	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA7-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409754
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4515 SDG#: DE245-15MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		17	170		1
04688	Acenaphthylene	208-96-8	1,900		17	170		1
04688	Aniline	62-53-3	1,200		170	500		1
04688	Anthracene	120-12-7	1,800		17	170		1
04688	Benzidine	92-87-5	3,800		1,200	3,300		1
04688	Benzo(a)anthracene	56-55-3	1,600		17	170		1
04688	Benzo(a)pyrene	50-32-8	1,900		17	170		1
04688	Benzo(b)fluoranthene	205-99-2	1,900		17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	2,000		17	170		1
04688	Benzo(k)fluoranthene	207-08-9	1,900		17	170		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	1,600		170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	1,700		17	170		1
04688	Butylbenzylphthalate	85-68-7	1,800		17	170		1
04688	Di-n-butylphthalate	84-74-2	1,900		17	170		1
04688	Carbazole	86-74-8	1,800		17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	1,700		33	170		1
04688	4-Chloroaniline	106-47-8	1,400		66	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,600		17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,500		17	170		1
04688	2-Chloronaphthalene	91-58-7	1,500		17	170		1
04688	2-Chlorophenol	95-57-8	1,700		17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		33	170		1
04688	Chrysene	218-01-9	1,600		17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	2,000		17	170		1
04688	Dibenzofuran	132-64-9	1,800		17	170		1
04688	1,2-Dichlorobenzene	95-50-1	1,500		17	170		1
04688	1,3-Dichlorobenzene	541-73-1	1,500		17	170		1
04688	1,4-Dichlorobenzene	106-46-7	1,500		17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,200		100	330		1
04688	2,4-Dichlorophenol	120-83-2	1,600		17	170		1
04688	Diethylphthalate	84-66-2	1,800		17	170		1
04688	2,4-Dimethylphenol	105-67-9	1,700		33	170		1
04688	3,5-Dimethylphenol	108-68-9	1,600		33	170		1
04688	Dimethylphthalate	131-11-3	1,700		17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	1,600		33	170		1
04688	2,6-Dinitrotoluene	606-20-2	1,900		17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	1,900		17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,200		17	330		1
04688	Fluoranthene	206-44-0	1,900		17	170		1
04688	Fluorene	86-73-7	1,800		17	170		1
04688	Hexachlorobenzene	118-74-1	1,600		17	170		1
04688	Hexachlorobutadiene	87-68-3	1,500		66	170		1
04688	Hexachlorocyclopentadiene	77-47-4	1,200		170	500		1
04688	Hexachloroethane	67-72-1	1,400		17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	2,000		17	170		1
04688	Isophorone	78-59-1	1,600		17	170		1

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Sample Description: SL-008-SA7-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409754
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4515 SDG#: DE245-15MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,600		17	170		1
04688	2-Methylnaphthalene	91-57-6	1,600		17	170		1
04688	2-Methylphenol	95-48-7	1,700		33	170		1
04688	4-Methylphenol	106-44-5	1,600		33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,600		17	170		1
04688	2-Nitroaniline	88-74-4	1,800		17	170		1
04688	3-Nitroaniline	99-09-2	1,700		33	170		1
04688	4-Nitroaniline	100-01-6	1,300		66	170		1
04688	Nitrobenzene	98-95-3	1,700		17	170		1
04688	2-Nitrophenol	88-75-5	1,200		17	170		1
04688	4-Nitrophenol	100-02-7	890		170	500		1
04688	N-Nitrosodimethylamine	62-75-9	1,400		33	170		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,500		17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	1,900		17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	2,100		17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenanthrene	85-01-8	1,800		17	170		1
04688	Phenol	108-95-2	1,700		17	170		1
04688	Pyrene	129-00-0	1,800		17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	1,600		17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	1,300		33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	1,300		33	170		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	39		3.3	8.3		5
10138	Acenaphthylene	208-96-8	28		1.7	8.3		5
10138	Anthracene	120-12-7	49		1.7	8.3		5
10138	Benzo(a)anthracene	56-55-3	200		3.3	8.3		5
10138	Benzo(a)pyrene	50-32-8	230		3.3	8.3		5
10138	Benzo(b)fluoranthene	205-99-2	400		3.3	8.3		5
10138	Benzo(g,h,i)perylene	191-24-2	120		3.3	8.3		5
10138	Benzo(k)fluoranthene	207-08-9	180		3.3	8.3		5
10138	Butylbenzylphthalate	85-68-7	31	J	30	89		5
10138	Di-n-butylphthalate	84-74-2	34	J	30	89		5
10138	Chrysene	218-01-9	300		1.7	8.3		5
10138	Dibenz(a,h)anthracene	53-70-3	44		3.3	8.3		5
10138	Diethylphthalate	84-66-2	34	J	30	89		5
10138	Dimethylphthalate	131-11-3	30	U	30	89		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	61	J	30	89		5

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Sample Description: SL-008-SA7-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409754
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4515 SDG#: DE245-15MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Fluoranthene	206-44-0	660		3.3	8.3		5
10138	Fluorene	86-73-7	36		3.3	8.3		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	130		3.3	8.3		5
10138	1-Methylnaphthalene	90-12-0	27		3.3	8.3		5
10138	2-Methylnaphthalene	91-57-6	26		3.3	8.3		5
10138	Naphthalene	91-20-3	28		3.3	8.3		5
10138	N-Nitrosodimethylamine	62-75-9	25		3.3	8.3		5
10138	Di-n-octylphthalate	117-84-0	33	J	30	89		5
10138	Phenanthrene	85-01-8	310		3.3	8.3		5
10138	Pyrene	129-00-0	480		3.3	8.3		5
Reporting limits were raised due to interference from the sample matrix.								
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	8.0		1.2	3.6		1
10401	Dalapon	75-99-0	16		4.4	9.1		1
10401	2,4-DB	94-82-6	10		0.63	1.7		1
10401	Dicamba	1918-00-9	1.3		0.40	1.2		1
10401	Dinoseb	88-85-7	1.0	J	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	8.9		0.81	1.7		1
10401	MCPA	94-74-6	360		77	250		1
10401	MCPP (Mecoprop)	93-65-2	180	J	76	250		1
10401	2,4,5-T	93-76-5	0.36		0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.48		0.076	0.17		1
The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.								
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.20		0.067	0.17		1
01363	Alpha BHC	319-84-6	0.20		0.034	0.17		1
01363	Beta BHC	319-85-7	0.15	J	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.20		0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	2.6		0.067	0.34		1
01363	p,p-DDE	72-55-9	0.64		0.067	0.34		1
01363	p,p-DDT	50-29-3	1.1		0.067	0.34		1
01363	Delta BHC	319-86-8	0.23		0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.19		0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.48		0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.36		0.067	0.34		1
01363	Endrin	72-20-8	0.49		0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.45		0.067	0.34		1
01363	Heptachlor	76-44-8	0.23		0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.31		0.034	0.17		1
01363	Methoxychlor	72-43-5	3.4		0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	37	U	37	37		1

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Sample Description: **SL-008-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409754
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
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Suite 210
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E4515 SDG#: DE245-15MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The TCX surrogate data in the associated method blank is outside the client specified limits at 43%. However, the recovery is within our in-house statistical limits of 28-121. The DCB surrogate recovery is within the client specified limits. The TCX recovery is high enough to ensure minimal impact on the data. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	6.2		1.0	3.3		1
10225	PCB-1016	12674-11-2	15		0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	6.6		0.33	1.7		1
10225	PCB-1260	11096-82-5	15		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	2,300		100	500		1
10501	Isopropanol	67-63-0	2,400		100	500		1
10501	Methanol	67-56-1	2,400		100	500		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	35		5.0	10		1
08283	Ethylene glycol	107-21-1	86		5.0	10		1
08283	Propylene glycol	57-55-6	100		5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	7.6		1.5	3.5		1
10318	o-Terphenyl	84-15-1	7.9		1.5	3.5		1
10318	p-Terphenyl	92-94-4	8.1		1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.89	J	0.81	2.4		2
10199	EFH (C15-C20)	n.a.	4.5		0.81	2.4		2
10199	EFH (C21-C30)	n.a.	30		0.81	2.4		2
10199	EFH (C30 - C40)	n.a.	56		0.81	2.4		2
10199	EFH (C8-C11)	n.a.	0.81	U	0.81	2.4		2
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	12,900		6.04	20.0		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-008-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409754
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4515 SDG#: DE245-15MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	200	0.359	4.99		1
01650	Calcium	7440-70-2	3,020	2.50	20.0		1
01654	Iron	7439-89-6	17,700	2.61	20.0		1
01656	Lithium	7439-93-2	125	0.62	2.0		1
01657	Magnesium	7439-95-4	3,950	0.439	9.99		1
06958	Manganese	7439-96-5	310	0.0359	0.499		1
10145	Phosphorus	7723-14-0	458	0.350	9.99		1
01662	Potassium	7440-09-7	4,420	11.3	49.9		1
01667	Sodium	7440-23-5	1,030	5.94	99.9		1
07968	Strontium	7440-24-6	108	0.0250	0.499		1
06969	Tin	7440-31-5	370	0.320	9.99		1
06970	Titanium	7440-32-6	1,330	0.0709	0.999		1
10146	Zirconium	7440-67-7	99.4	0.459	4.99		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.929	0.0725	0.196		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.49	0.0783	0.392		2
06126	Barium	7440-39-3	113	0.104	0.392		2
06127	Beryllium	7440-41-7	1.49	0.0157	0.0979		2
06128	Cadmium	7440-43-9	1.47	0.0431	0.0979		2
06131	Chromium	7440-47-3	35.9	0.118	0.392		2
06132	Cobalt	7440-48-4	67.4	0.0196	0.0979		2
06133	Copper	7440-50-8	17.9	0.0783	0.392		2
06135	Lead	7439-92-1	21.0	0.010	0.196		2
06138	Molybdenum	7439-98-7	13.4	0.0490	0.0979		2
06139	Nickel	7440-02-0	20.9	0.0979	0.392		2
06141	Selenium	7782-49-2	2.55	0.0568	0.392		2
06142	Silver	7440-22-4	12.8	0.0139	0.0979		2
06145	Thallium	7440-28-0	0.803	0.0294	0.0979		2
06148	Vanadium	7440-62-2	52.0	0.0215	0.0979		2
06149	Zinc	7440-66-6	170	0.548	2.94		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.181	0.0068	0.0967		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	0.85	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-008-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409754
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4515 SDG#: DE245-15MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11266SLB026	09/29/2011 03:13	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLC026	09/29/2011 10:47	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11266SLC026	09/26/2011 10:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11266SLB026	09/26/2011 03:00	David V Hershey Jr	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670005A	09/27/2011 17:40	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112640030A	09/29/2011 11:32	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112640028A	09/24/2011 07:47	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112640030A	09/22/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112640028A	09/22/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670005A	09/26/2011 21:35	Elaine F Stoltzfus	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112640035A	09/22/2011 21:05	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620011A	09/21/2011 04:44	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112650024A	09/23/2011 19:10	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112650007A	09/24/2011 07:20	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	112650007A	09/22/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112650024A	09/23/2011 07:55	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112640035A	09/22/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620011A	09/19/2011 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112635708001	09/27/2011 00:29	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112635708001	09/27/2011 00:29	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112635708001	09/27/2011 00:29	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112635708001	09/27/2011 00:29	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112635708001	09/27/2011 00:29	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112635708001	09/27/2011 00:29	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112635708001	09/27/2011 00:29	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112635708001	09/27/2011 00:29	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112635708001	09/27/2011 00:29	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112635708001	09/27/2011 00:29	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112635708001	09/27/2011 00:29	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112635708001	09/27/2011 00:29	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112635708001	09/27/2011 00:29	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112635708001	09/27/2011 00:29	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112631026001A	09/21/2011 10:37	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026001A	09/21/2011 10:37	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026001D	09/21/2011 10:37	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026001A	09/21/2011 10:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112631026001A	09/21/2011 10:37	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026001A	09/21/2011 10:37	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026001A	09/21/2011 10:37	Choon Y Tian	2

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Sample Description: **SL-008-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409754
LLI Group # 1266997
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

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E4515 SDG#: DE245-15MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	112631026001A	09/21/2011 10:37	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026001A	09/21/2011 17:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026001C	09/21/2011 10:37	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026001A	09/21/2011 10:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026001B	09/21/2011 10:37	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026001A	09/21/2011 10:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026001A	09/21/2011 10:37	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026001A	09/21/2011 10:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026001A	09/21/2011 10:37	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112635711002	09/21/2011 11:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708001	09/20/2011 21:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026001	09/20/2011 21:57	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711002	09/20/2011 23:50	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403B	09/20/2011 19:11	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-008-SA7-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409755
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4515 SDG#: DE245-15DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,400		5.98	19.8		1
07914	Boron	7440-42-8	1.11	J	0.356	4.94		1
01650	Calcium	7440-70-2	2,660		2.47	19.8		1
01654	Iron	7439-89-6	18,200		2.58	19.8		1
01656	Lithium	7439-93-2	24.2		0.61	2.0		1
01657	Magnesium	7439-95-4	3,600		0.435	9.89		1
06958	Manganese	7439-96-5	258		0.0356	0.494		1
10145	Phosphorus	7723-14-0	359		0.346	9.89		1
01662	Potassium	7440-09-7	3,180		11.2	49.4		1
01667	Sodium	7440-23-5	69.0	J	5.88	98.9		1
07968	Strontium	7440-24-6	10.7		0.0247	0.494		1
06969	Tin	7440-31-5	2.92	J	0.316	9.89		1
06970	Titanium	7440-32-6	1,120		0.0702	0.989		1
10146	Zirconium	7440-67-7	0.636	J	0.455	4.94		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.328		0.0732	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.60		0.0791	0.396		2
06126	Barium	7440-39-3	110		0.105	0.396		2
06127	Beryllium	7440-41-7	0.572		0.0158	0.0989		2
06128	Cadmium	7440-43-9	2.80		0.0435	0.0989		2
06131	Chromium	7440-47-3	15.9		0.119	0.396		2
06132	Cobalt	7440-48-4	7.75		0.0198	0.0989		2
06133	Copper	7440-50-8	8.57		0.0791	0.396		2
06135	Lead	7439-92-1	35.2		0.0101	0.198		2
06138	Molybdenum	7439-98-7	0.485		0.0494	0.0989		2
06139	Nickel	7440-02-0	10.2		0.0989	0.396		2
06141	Selenium	7782-49-2	0.111	J	0.0574	0.396		2
06142	Silver	7440-22-4	0.0450	J	0.0140	0.0989		2
06145	Thallium	7440-28-0	0.316		0.0297	0.0989		2
06148	Vanadium	7440-62-2	36.5		0.0218	0.0989		2
06149	Zinc	7440-66-6	4,370		13.8	74.2		50
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0070	U	0.0070	0.0991		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.0		0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.55	J	0.20	1.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-008-SA7-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409755
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4515 SDG#: DE245-15DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18 U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.34	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	0.81	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						
11625	Moisture Content by 160.3	n.a.	0.85	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	112635708001	09/27/2011 00:21	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112635708001	09/27/2011 00:21	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112635708001	09/27/2011 00:21	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112635708001	09/27/2011 00:21	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112635708001	09/27/2011 00:21	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112635708001	09/27/2011 00:21	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112635708001	09/27/2011 00:21	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112635708001	09/27/2011 00:21	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112635708001	09/27/2011 00:21	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112635708001	09/27/2011 00:21	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112635708001	09/27/2011 00:21	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112635708001	09/27/2011 00:21	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112635708001	09/27/2011 00:21	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112635708001	09/27/2011 00:21	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112631026001A	09/21/2011 10:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026001A	09/21/2011 10:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026001D	09/21/2011 10:31	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026001A	09/21/2011 10:31	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112631026001A	09/21/2011 10:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026001A	09/21/2011 10:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026001A	09/21/2011 10:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026001A	09/21/2011 10:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026001A	09/21/2011 17:44	Choon Y Tian	2

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Analysis Report

Sample Description: **SL-008-SA7-SS-0.0-0.5DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409755
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4515 SDG#: DE245-15DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	112631026001C	09/21/2011 10:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026001A	09/21/2011 10:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026001B	09/21/2011 10:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026001A	09/21/2011 10:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026001A	09/21/2011 10:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026001A	09/21/2011 10:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026001A	09/21/2011 18:55	Choon Y Tian	50
00159	Mercury	SW-846 7471A	1	112635711002	09/21/2011 11:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708001	09/20/2011 21:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026001	09/20/2011 21:57	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711002	09/20/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11265621201B	09/24/2011 21:46	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11265621202B	09/24/2011 10:25	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11271243201A	09/30/2011 16:36	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11270102201A	09/27/2011 15:04	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11265621201B	09/22/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11265621202B	09/22/2011 08:07	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11270102201A	09/27/2011 10:15	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039402B	09/26/2011 09:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11271243201A	09/28/2011 10:30	Yolunder Y Bunch	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11263162403B	09/20/2011 19:11	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403B	09/20/2011 19:11	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-008-SA7-SS-0.0-0.5RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409756
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4515 SDG#: DE245-15RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	7.8	U	7.8	7.8		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	1.6	J	0.81	1.7		1
10401	MCPA	94-74-6	410	U	410	410		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.40	U	0.40	0.40		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.097	J	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.098	J	0.034	0.17		1
01363	Beta BHC	319-85-7	0.091	J	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.11	J	0.034	0.17		1
01363	Chlordane	57-74-9	1.6	J	0.81	3.4		1
01363	p,p-DDD	72-54-8	1.1		0.067	0.34		1
01363	p,p-DDE	72-55-9	0.50		0.067	0.34		1
01363	p,p-DDT	50-29-3	1.2		0.067	0.34		1
01363	Delta BHC	319-86-8	0.16	J	0.036	0.17		1
01363	Dieldrin	60-57-1	0.30	J	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.37		0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.59		0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	1.1		0.067	0.34		1
01363	Endrin	72-20-8	0.36		0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.92		0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.93		0.067	0.34		1
01363	Heptachlor	76-44-8	0.14	J	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.24		0.034	0.17		1
01363	Methoxychlor	72-43-5	2.9		0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	30	U	30	30		1

The TCX surrogate data in the associated method blank is outside the client specified limits at 43%. However, the recovery is within our in-house statistical limits of 28-121. The DCB surrogate recovery is within the client specified limits. The TCX recovery is high enough to ensure minimal impact on the data.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	10		1.0	3.3		1
10225	PCB-1016	12674-11-2	2.2		0.33	1.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-008-SA7-SS-0.0-0.5RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409756
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4515 SDG#: DE245-15RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1
10225	PCB-1260	11096-82-5	4.5		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	840		100	500		1
10501	Isopropanol	67-63-0	910		100	500		1
10501	Methanol	67-56-1	1,100		100	500		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6	J	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.6	J	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.40	J	0.30	1.2		1
10199	EFH (C15-C20)	n.a.	0.71	J	0.40	1.2		1
10199	EFH (C21-C30)	n.a.	1.2		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	2.2		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.43	J	0.40	1.2		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.85		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670005A	09/27/2011 22:15	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112640030A	10/01/2011 01:04	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112640028A	09/24/2011 08:06	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112640030A	09/22/2011 12:00	Olivia I Santiago	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **SL-008-SA7-SS-0.0-0.5RL MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409756
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4515 SDG#: DE245-15RLR

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112640028A	09/22/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670005A	09/26/2011 21:35	Elaine F Stoltzfus	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112640035A	09/22/2011 21:20	Elizabeth J Marin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112650024A	09/23/2011 17:43	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112650007A	09/24/2011 04:57	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112650007A	09/22/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112650024A	09/23/2011 07:55	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112640035A	09/22/2011 19:00	Elizabeth J Marin	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403B	09/20/2011 19:11	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA7-SS-0.0-0.5RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409757
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4515 SDG#: DE245-15RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	4.3		1.2	3.6		1
10401	Dalapon	75-99-0	7.8	J	4.4	9.0		1
10401	2,4-DB	94-82-6	1.5	J	0.62	1.7		1
10401	Dicamba	1918-00-9	0.61	J	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	1.6	J	0.80	1.7		1
10401	MCPA	94-74-6	260		76	250		1
10401	MCPP (Mecoprop)	93-65-2	130	J	75	250		1
10401	2,4,5-T	93-76-5	0.21		0.082	0.17		1
10401	2,4,5-TP	93-72-1	0.17	J	0.075	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.072	J	0.066	0.17		1
01363	Alpha BHC	319-84-6	0.078	J	0.034	0.17		1
01363	Beta BHC	319-85-7	0.15	J	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.091	J	0.034	0.17		1
01363	Chlordane	57-74-9	0.80	U	0.80	3.4		1
01363	p,p-DDD	72-54-8	0.25	J	0.066	0.34		1
01363	p,p-DDE	72-55-9	0.23	J	0.066	0.34		1
01363	p,p-DDT	50-29-3	0.24	J	0.066	0.34		1
01363	Delta BHC	319-86-8	0.13	J	0.036	0.17		1
01363	Dieldrin	60-57-1	0.18	J	0.066	0.34		1
01363	Endosulfan I	959-98-8	0.088	J	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.20	J	0.066	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.23	J	0.066	0.34		1
01363	Endrin	72-20-8	0.21	J	0.066	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.18	J	0.066	0.34		1
01363	Endrin Ketone	53494-70-5	0.27	J	0.066	0.34		1
01363	Heptachlor	76-44-8	0.083	J	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.094	J	0.034	0.17		1
01363	Methoxychlor	72-43-5	1.3	J	0.34	1.7		1
01363	Mirex	2385-85-5	0.066	U	0.066	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.6		1

The TCX surrogate data in the associated method blank and this sample is outside the client specified limits at 43% and 44%. However, the recovery is within our in-house statistical limits of 28-121. The DCB surrogate recovery is within the client specified limits. The TCX recovery is high enough to ensure minimal impact on the data.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	1.8		0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA7-SS-0.0-0.5RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409757
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4515 SDG#: DE245-15RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1
10225	PCB-1260	11096-82-5	1.9		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	1,100		100	500		1
10501	Isopropanol	67-63-0	1,100		100	500		1
10501	Methanol	67-56-1	1,300		100	500		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	J	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.37	J	0.30	1.2		1
10199	EFH (C15-C20)	n.a.	0.74	J	0.40	1.2		1
10199	EFH (C21-C30)	n.a.	1.3		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	2.0		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.41	J	0.40	1.2		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670005A	09/27/2011	22:42	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112640030A	09/29/2011	10:06	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112700010A	09/30/2011	17:41	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112640030A	09/22/2011	12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	112700010A	09/28/2011	18:00	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670005A	09/26/2011	21:35	Elaine F Stoltzfus	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112600026A	09/20/2011	23:04	Elizabeth J Marin	1

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-008-SA7-SS-0.0-0.5RL LCS Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409757
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4515 SDG#: DE245-15RLQ

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112650024A	09/23/2011 16:58	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112650007A	09/24/2011 05:21	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112650007A	09/22/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112650024A	09/23/2011 07:55	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112600026A	09/19/2011 20:00	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-045-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA7-SS-0.0-0.5

LLI Sample # SW 6409758
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 14:30

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4516 SDG#: DE245-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	166	U	166	332		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-045-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA7-SS-0.0-0.5

LLI Sample # SW 6409758
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 14:30

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4516 SDG#: DE245-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	130	J	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	84		3.3	8.3		5
10138	Acenaphthylene	208-96-8	7.0	J	1.7	8.3		5
10138	Anthracene	120-12-7	200		1.7	8.3		5
10138	Benzo(a)anthracene	56-55-3	880		3.3	8.3		5
10138	Benzo(a)pyrene	50-32-8	830		3.3	8.3		5
10138	Benzo(b)fluoranthene	205-99-2	1,500		3.3	8.3		5
10138	Benzo(g,h,i)perylene	191-24-2	300		3.3	8.3		5
10138	Benzo(k)fluoranthene	207-08-9	540		3.3	8.3		5
10138	Chrysene	218-01-9	1,000		1.7	8.3		5
10138	Dibenz(a,h)anthracene	53-70-3	88		3.3	8.3		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	320		30	90		5
10138	Fluoranthene	206-44-0	2,500		33	83		50
10138	Fluorene	86-73-7	72		3.3	8.3		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	360		3.3	8.3		5
10138	1-Methylnaphthalene	90-12-0	10		3.3	8.3		5
10138	2-Methylnaphthalene	91-57-6	9.5		3.3	8.3		5
10138	Naphthalene	91-20-3	21		3.3	8.3		5
10138	N-Nitrosodimethylamine	62-75-9	3.3	U	3.3	8.3		5
10138	Phenanthrene	85-01-8	1,500		3.3	8.3		5
10138	Pyrene	129-00-0	2,300		33	83		50
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1

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Sample Description: SL-045-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA7-SS-0.0-0.5

LLI Sample # SW 6409758
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 14:30

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4516 SDG#: DE245-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	3.9	U	3.9	3.9		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.27	U	0.27	0.27		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. Reporting limits were raised due to interference from the sample matrix.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	1,200	U	1,200	3,000		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-045-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA7-SS-0.0-0.5

LLI Sample # SW 6409758
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 14:30

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4516 SDG#: DE245-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.33	U	0.33	0.84		5
01363	Alpha BHC	319-84-6	0.17	U	0.17	0.84		5
01363	Beta BHC	319-85-7	0.30	U	0.30	0.84		5
01363	Gamma BHC - Lindane	58-89-9	0.17	U	0.17	0.84		5
01363	Chlordane	57-74-9	4.1	U	4.1	17		5
01363	p,p-DDD	72-54-8	2.3	U	2.3	2.3		5
01363	p,p-DDE	72-55-9	0.83	U	0.83	1.7		5
01363	p,p-DDT	50-29-3	4.4	U	4.4	4.4		5
01363	Delta BHC	319-86-8	0.18	U	0.18	0.84		5
01363	Dieldrin	60-57-1	0.33	U	0.33	1.7		5
01363	Endosulfan I	959-98-8	0.22	U	0.22	0.84		5
01363	Endosulfan II	33213-65-9	1.7	U	1.7	1.7		5
01363	Endosulfan Sulfate	1031-07-8	0.33	U	0.33	1.7		5
01363	Endrin	72-20-8	0.97	U	0.97	1.7		5
01363	Endrin Aldehyde	7421-93-4	0.33	U	0.33	1.7		5
01363	Endrin Ketone	53494-70-5	0.33	U	0.33	1.7		5
01363	Heptachlor	76-44-8	0.30	U	0.30	0.84		5
01363	Heptachlor Epoxide	1024-57-3	0.22	U	0.22	0.84		5
01363	Methoxychlor	72-43-5	49	U	49	49		5
01363	Mirex	2385-85-5	1.2	U	1.2	1.7		5
01363	Toxaphene	8001-35-2	130	U	130	130		5

The TCX surrogate data in the associated method blank is outside the client specified limits at 43%. However, the recovery is within our in-house statistical limits of 28-121. The DCB surrogate recovery is within the client specified limits. The TCX recovery is high enough to ensure minimal impact on the data.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	9.8		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	3.9		0.33	1.7		1
10225	PCB-1260	11096-82-5	6.5		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	

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Sample Description: **SL-045-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-045-SA7-SS-0.0-0.5

LLI Sample # SW 6409758
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 14:30

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4516 SDG#: DE245-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.1	U	4.1	12		10
10199	EFH (C15-C20)	n.a.	16		4.1	12		10
10199	EFH (C21-C30)	n.a.	110		4.1	12		10
10199	EFH (C30 - C40)	n.a.	220		4.1	12		10
10199	EFH (C8-C11)	n.a.	4.1	U	4.1	12		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	9,850		5.95	19.7		1
07914	Boron	7440-42-8	1.88	J	0.354	4.92		1
01650	Calcium	7440-70-2	3,490		2.46	19.7		1
01654	Iron	7439-89-6	17,300		2.57	19.7		1
01656	Lithium	7439-93-2	22.9		0.61	2.0		1
01657	Magnesium	7439-95-4	3,560		0.433	9.84		1
06958	Manganese	7439-96-5	244		0.0354	0.492		1
10145	Phosphorus	7723-14-0	413		0.344	9.84		1
01662	Potassium	7440-09-7	3,800		11.1	49.2		1
01667	Sodium	7440-23-5	71.7	J	5.85	98.4		1
07968	Strontium	7440-24-6	12.5		0.0246	0.492		1
06969	Tin	7440-31-5	3.46	J	0.315	9.84		1
06970	Titanium	7440-32-6	1,050		0.0698	0.984		1
10146	Zirconium	7440-67-7	0.452	U	0.452	4.92		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	13.2		0.0742	0.201		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	11.0		0.0803	0.401		2
06126	Barium	7440-39-3	101		0.106	0.401		2
06127	Beryllium	7440-41-7	0.487		0.0161	0.100		2
06128	Cadmium	7440-43-9	0.389		0.0441	0.100		2
06131	Chromium	7440-47-3	21.6		0.120	0.401		2
06132	Cobalt	7440-48-4	5.45		0.0201	0.100		2
06133	Copper	7440-50-8	12.6		0.0803	0.401		2

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Sample Description: **SL-045-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-045-SA7-SS-0.0-0.5

LLI Sample # SW 6409758
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 14:30

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4516 SDG#: DE245-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	43.2		0.0102	0.201		2
06138	Molybdenum	7439-98-7	0.763		0.0502	0.100		2
06139	Nickel	7440-02-0	10.8		0.100	0.401		2
06141	Selenium	7782-49-2	0.0759	J	0.0582	0.401		2
06142	Silver	7440-22-4	0.0540	J	0.0142	0.100		2
06145	Thallium	7440-28-0	0.305		0.0301	0.100		2
06148	Vanadium	7440-62-2	30.6		0.0221	0.100		2
06149	Zinc	7440-66-6	144		1.40	7.52		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0203	J	0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.4		0.81	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.50	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.18		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-045-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-045-SA7-SS-0.0-0.5

LLI Sample # SW 6409758
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 14:30

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E4516 SDG#: DE245-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11265SLB026	09/29/2011 18:30	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11266SLB026	09/29/2011 14:55	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLC026	09/30/2011 00:46	Gregory J Drahovsky	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLC026	09/30/2011 11:34	Joseph M Gambler	50
11630	NDMA Soil Microwave	SW-846 3546	1	11265SLB026	09/23/2011 10:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11266SLC026	09/26/2011 10:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11266SLB026	09/26/2011 03:00	David V Hershey Jr	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112640025A	09/24/2011 10:07	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112620004A	09/21/2011 20:54	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670005A	09/27/2011 23:10	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112640030A	09/29/2011 14:09	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112640028A	09/24/2011 08:44	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112640030A	09/22/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112640028A	09/22/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670005A	09/26/2011 21:35	Elaine F Stoltzfus	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112620004A	09/19/2011 17:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112640025A	09/22/2011 11:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112640035A	09/22/2011 21:49	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620011A	09/21/2011 00:40	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112650024A	09/23/2011 21:23	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112650007A	09/24/2011 08:55	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112650007A	09/22/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112650024A	09/23/2011 07:55	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112640035A	09/22/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620011A	09/19/2011 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112635708001	09/27/2011 01:49	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112635708001	09/27/2011 01:49	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112635708001	09/27/2011 01:49	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112635708001	09/27/2011 01:49	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112635708001	09/27/2011 01:49	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112635708001	09/27/2011 01:49	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112635708001	09/27/2011 01:49	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112635708001	09/27/2011 01:49	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112635708001	09/27/2011 01:49	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112635708001	09/27/2011 01:49	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112635708001	09/27/2011 01:49	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112635708001	09/27/2011 01:49	John W Yanzuk II	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-045-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-045-SA7-SS-0.0-0.5

LLI Sample # SW 6409758
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
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E4516 SDG#: DE245-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112635708001	09/27/2011 01:49	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112635708001	09/27/2011 01:49	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112631026001A	09/21/2011 11:40	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026001A	09/21/2011 11:40	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026001D	09/21/2011 11:40	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026001A	09/21/2011 11:40	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112631026001A	09/21/2011 11:40	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026001A	09/21/2011 11:40	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026001A	09/21/2011 11:40	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026001A	09/21/2011 11:40	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026001A	09/21/2011 18:28	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026001C	09/21/2011 11:40	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026001A	09/21/2011 11:40	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026001B	09/21/2011 11:40	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026001A	09/21/2011 11:40	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026001A	09/21/2011 11:40	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026001A	09/21/2011 11:40	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026001A	09/21/2011 12:32	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	112635711002	09/21/2011 11:07	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708001	09/20/2011 21:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026001	09/20/2011 21:57	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711002	09/20/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11265621201B	09/23/2011 22:25	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11265621201B	09/23/2011 22:25	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11265621202B	09/24/2011 13:07	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11271243201A	09/30/2011 16:42	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11270102201A	09/27/2011 15:09	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11265621201B	09/22/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11265621202B	09/22/2011 08:07	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11270102201A	09/27/2011 10:15	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039402B	09/26/2011 09:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11271243201A	09/28/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11272162401B	09/29/2011 21:46	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-090-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-090-SA7-SS-0.0-0.5

LLI Sample # SW 6409759
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 15:25

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4517 SDG#: DE245-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(g,h,i)perylene	191-24-2	1,500		17	170		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	19	J	17	170		1
04688	Carbazole	86-74-8	540		17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenz(a,h)anthracene	53-70-3	450		17	170		1
04688	Dibenzofuran	132-64-9	140	J	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,400		17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1

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Sample Description: **SL-090-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-090-SA7-SS-0.0-0.5

LLI Sample # SW 6409759
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 15:25

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4517 SDG#: DE245-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	2,100		67	170		100
10138	Acenaphthylene	208-96-8	39		1.7	8.4		5
10138	Anthracene	120-12-7	4,100		34	170		100
10138	Benzo(a)anthracene	56-55-3	5,500		67	170		100
10138	Benzo(a)pyrene	50-32-8	3,700		67	170		100
10138	Benzo(b)fluoranthene	205-99-2	5,600		67	170		100
10138	Benzo(k)fluoranthene	207-08-9	2,200		67	170		100
10138	Chrysene	218-01-9	6,300		34	170		100
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	500		30	91		5
10138	Fluoranthene	206-44-0	14,000		67	170		100
10138	Fluorene	86-73-7	1,800		67	170		100
10138	1-Methylnaphthalene	90-12-0	630		3.4	8.4		5
10138	2-Methylnaphthalene	91-57-6	680		3.4	8.4		5
10138	Naphthalene	91-20-3	1,600		3.4	8.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4		5
10138	Phenanthrene	85-01-8	15,000		67	170		100
10138	Pyrene	129-00-0	13,000		67	170		100
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	2.3	U	2.3	2.3		1
10401	Dicamba	1918-00-9	0.58	J	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	120	U	120	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.35		0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory							

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SSFL Area IV Collocated Soil Sampling
SL-090-SA7-SS-0.0-0.5

LLI Sample # SW 6409759
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 15:25

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4517 SDG#: DE245-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.34	U	0.34	0.85		5
01363	Alpha BHC	319-84-6	0.17	U	0.17	0.85		5
01363	Beta BHC	319-85-7	0.31	U	0.31	0.85		5
01363	Gamma BHC - Lindane	58-89-9	0.17	U	0.17	0.85		5
01363	Chlordane	57-74-9	4.1	U	4.1	17		5
01363	p,p-DDD	72-54-8	4.0	U	4.0	4.0		5
01363	p,p-DDE	72-55-9	0.34	U	0.34	1.7		5
01363	p,p-DDT	50-29-3	5.9	U	5.9	5.9		5
01363	Delta BHC	319-86-8	0.18	U	0.18	0.85		5
01363	Dieldrin	60-57-1	1.6	U	1.6	1.7		5
01363	Endosulfan I	959-98-8	0.22	U	0.22	0.85		5
01363	Endosulfan II	33213-65-9	0.64	U	0.64	1.7		5
01363	Endosulfan Sulfate	1031-07-8	0.34	U	0.34	1.7		5
01363	Endrin	72-20-8	1.2	U	1.2	1.7		5
01363	Endrin Aldehyde	7421-93-4	2.1	U	2.1	2.1		5
01363	Endrin Ketone	53494-70-5	0.34	U	0.34	1.7		5
01363	Heptachlor	76-44-8	0.31	U	0.31	0.85		5
01363	Heptachlor Epoxide	1024-57-3	0.86	U	0.86	0.86		5
01363	Methoxychlor	72-43-5	1.7	U	1.7	8.5		5
01363	Mirex	2385-85-5	2.4	U	2.4	2.4		5
01363	Toxaphene	8001-35-2	110	U	110	110		5
	The TCX surrogate data in the associated method blank is outside the client specified limits at 43%. However, the recovery is within our in-house statistical limits of 28-121. The DCB surrogate recovery is within the client specified limits. The TCX recovery is high enough to ensure minimal impact on the data. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	5.1	U	5.1	17		5
10225	Aroclor 5442	12642-23-8	5.1	U	5.1	17		5
10225	Aroclor 5460	11126-42-4	9.9	J	5.1	17		5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.7		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.7		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.7		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.7		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.7		5
10225	PCB-1254	11097-69-1	65		1.7	8.7		5
10225	PCB-1260	11096-82-5	2.0	U	2.0	8.7		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.7		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.7		5
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1

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Sample Description: **SL-090-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-090-SA7-SS-0.0-0.5

LLI Sample # SW 6409759
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 15:25

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E4517 SDG#: DE245-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.1	U	4.1	12		10
10199	EFH (C15-C20)	n.a.	47		4.1	12		10
10199	EFH (C21-C30)	n.a.	310		4.1	12		10
10199	EFH (C30 - C40)	n.a.	440		4.1	12		10
10199	EFH (C8-C11)	n.a.	4.1	U	4.1	12		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,000		6.13	20.3		1
07914	Boron	7440-42-8	0.949	J	0.365	5.07		1
01650	Calcium	7440-70-2	5,830		2.53	20.3		1
01654	Iron	7439-89-6	20,300		2.64	20.3		1
01656	Lithium	7439-93-2	23.3		0.63	2.0		1
01657	Magnesium	7439-95-4	3,610		0.446	10.1		1
06958	Manganese	7439-96-5	281		0.0365	0.507		1
10145	Phosphorus	7723-14-0	472		0.355	10.1		1
01662	Potassium	7440-09-7	3,210		11.5	50.7		1
01667	Sodium	7440-23-5	84.1	J	6.03	101		1
07968	Strontium	7440-24-6	20.6		0.0253	0.507		1
06969	Tin	7440-31-5	2.98	J	0.324	10.1		1
06970	Titanium	7440-32-6	1,060		0.0720	1.01		1
10146	Zirconium	7440-67-7	0.466	U	0.466	5.07		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.904		0.0743	0.201		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	12.6		0.0803	0.401		2
06126	Barium	7440-39-3	103		0.106	0.401		2
06127	Beryllium	7440-41-7	0.578		0.0161	0.100		2
06128	Cadmium	7440-43-9	0.311		0.0442	0.100		2
06131	Chromium	7440-47-3	76.6		0.120	0.401		2
06132	Cobalt	7440-48-4	9.22		0.0201	0.100		2
06133	Copper	7440-50-8	23.9		0.0803	0.401		2

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Sample Description: **SL-090-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-090-SA7-SS-0.0-0.5

LLI Sample # SW 6409759
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 15:25

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4517 SDG#: DE245-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	38.8	0.0102	0.201		2
06138	Molybdenum	7439-98-7	1.66	0.0502	0.100		2
06139	Nickel	7440-02-0	28.3	0.100	0.401		2
06141	Selenium	7782-49-2	0.0911 J	0.0582	0.401		2
06142	Silver	7440-22-4	0.0478 J	0.0142	0.100		2
06145	Thallium	7440-28-0	0.313	0.0301	0.100		2
06148	Vanadium	7440-62-2	53.9	0.0221	0.100		2
06149	Zinc	7440-66-6	165	0.562	3.01		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0082 J	0.0070	0.100		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.84 U	0.84	1.0		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2 U	9.2	30.7		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	4.3	0.20	1.0		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18 U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.67	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.3	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-090-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-090-SA7-SS-0.0-0.5

LLI Sample # SW 6409759
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 15:25

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4517 SDG#: DE245-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11266SLB026	09/29/2011 15:20	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLC026	09/30/2011 01:19	Gregory J Drahovsky	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLC026	09/30/2011 08:46	Joseph M Gambler	100
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11266SLC026	09/26/2011 10:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11266SLB026	09/26/2011 03:00	David V Hershey Jr	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670005A	09/27/2011 23:37	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112640030A	09/29/2011 14:51	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112640028A	09/24/2011 09:02	Jamie L Brillhart	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112640030A	09/22/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112640028A	09/22/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670005A	09/26/2011 21:35	Elaine F Stoltzfus	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112640035A	09/22/2011 22:04	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620011A	09/21/2011 00:53	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112650024A	09/23/2011 20:39	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112650007A	09/24/2011 09:19	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112650007A	09/22/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112650024A	09/23/2011 07:55	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112640035A	09/22/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620011A	09/19/2011 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112635708001	09/27/2011 01:53	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112635708001	09/27/2011 01:53	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112635708001	09/27/2011 01:53	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112635708001	09/27/2011 01:53	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112635708001	09/27/2011 01:53	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112635708001	09/27/2011 01:53	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112635708001	09/27/2011 01:53	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112635708001	09/27/2011 01:53	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112635708001	09/27/2011 01:53	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112635708001	09/27/2011 01:53	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112635708001	09/27/2011 01:53	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112635708001	09/27/2011 01:53	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112635708001	09/27/2011 01:53	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112635708001	09/27/2011 01:53	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112631026001A	09/21/2011 11:43	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026001A	09/21/2011 11:43	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026001D	09/21/2011 11:43	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026001A	09/21/2011 11:43	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112631026001A	09/21/2011 11:43	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-090-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-090-SA7-SS-0.0-0.5

LLI Sample # SW 6409759
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 15:25

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4517 SDG#: DE245-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112631026001A	09/21/2011 11:43	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026001A	09/21/2011 11:43	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026001A	09/21/2011 11:43	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026001A	09/21/2011 18:30	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026001C	09/21/2011 11:43	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026001A	09/21/2011 11:43	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026001B	09/21/2011 11:43	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026001A	09/21/2011 11:43	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026001A	09/21/2011 11:43	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026001A	09/21/2011 11:43	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026001A	09/21/2011 18:30	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112635711002	09/21/2011 11:08	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708001	09/20/2011 21:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026001	09/20/2011 21:57	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711002	09/20/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11265621201B	09/24/2011 23:28	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11265621202B	09/24/2011 13:30	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11271243201A	09/30/2011 16:56	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11270102201A	09/27/2011 15:10	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11265621201B	09/22/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11265621202B	09/22/2011 08:07	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11270102201A	09/27/2011 10:15	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039402B	09/26/2011 09:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11271243201A	09/28/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403B	09/20/2011 19:11	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: DUP01-SA7-QC-091511 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA7-QC-091511

LLI Sample # SW 6409760
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4518 SDG#: DE245-18FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	J	17	170		1
04688	Carbazole	86-74-8	64	J	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	330		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170		1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	370		17	330		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	33	U	33	170		1
04688	4-Methylphenol	106-44-5	33	U	33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	33	U	33	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP01-SA7-QC-091511 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA7-QC-091511

LLI Sample # SW 6409760
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4518 SDG#: DE245-18FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	650		3.3	8.3		5
10138	Acenaphthylene	208-96-8	37		1.7	8.3		5
10138	Anthracene	120-12-7	680		1.7	8.3		5
10138	Benzo(a)anthracene	56-55-3	2,900		66	170		100
10138	Benzo(a)pyrene	50-32-8	2,800		66	170		100
10138	Benzo(b)fluoranthene	205-99-2	4,300		66	170		100
10138	Benzo(g,h,i)perylene	191-24-2	1,100		3.3	8.3		5
10138	Benzo(k)fluoranthene	207-08-9	2,300		66	170		100
10138	Chrysene	218-01-9	4,300		33	170		100
10138	Dibenz(a,h)anthracene	53-70-3	380		3.3	8.3		5
10138	Fluoranthene	206-44-0	12,000		66	170		100
10138	Fluorene	86-73-7	390		3.3	8.3		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1,300		3.3	8.3		5
10138	1-Methylnaphthalene	90-12-0	62		3.3	8.3		5
10138	2-Methylnaphthalene	91-57-6	47		3.3	8.3		5
10138	Naphthalene	91-20-3	120		3.3	8.3		5
10138	N-Nitrosodimethylamine	62-75-9	3.3	U	3.3	8.3		5
10138	Phenanthrene	85-01-8	9,700		66	170		100
10138	Pyrene	129-00-0	9,900		66	170		100
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	2.4	U	2.4	2.4		1
10401	Dicamba	1918-00-9	0.71	J	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1
10401	MCPA	94-74-6	76	U	76	250		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.15	U	0.15	0.17		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP01-SA7-QC-091511 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA7-QC-091511

LLI Sample # SW 6409760
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4518 SDG#: DE245-18FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	2.3	J	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.66	U	0.66	0.66		1
01363	p,p-DDE	72-55-9	0.14	U	0.14	0.34		1
01363	p,p-DDT	50-29-3	0.89	U	0.89	0.89		1
01363	Delta BHC	319-86-8	0.048	J	0.036	0.17		1
01363	Dieldrin	60-57-1	0.15	U	0.15	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.23	U	0.23	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.086	J	0.034	0.17		1
01363	Methoxychlor	72-43-5	11	U	11	11		1
01363	Mirex	2385-85-5	0.57	U	0.57	0.57		1
01363	Toxaphene	8001-35-2	12	U	12	12		1
	The TCX surrogate data in the associated method blank is outside the client specified limits at 43%. However, the recovery is within our in-house statistical limits of 28-121. The DCB surrogate recovery is within the client specified limits. The TCX recovery is high enough to ensure minimal impact on the data. Reporting limits were raised due to interference from the sample matrix.							
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	8.6		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	2.0		0.33	1.7		1
10225	PCB-1260	11096-82-5	3.0		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	500		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP01-SA7-QC-091511 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA7-QC-091511

LLI Sample # SW 6409760
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4518 SDG#: DE245-18FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	440	J	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.81	U	0.81	2.4		2
10199	EFH (C15-C20)	n.a.	5.4		0.81	2.4		2
10199	EFH (C21-C30)	n.a.	34		0.81	2.4		2
10199	EFH (C30 - C40)	n.a.	50		0.81	2.4		2
10199	EFH (C8-C11)	n.a.	0.81	U	0.81	2.4		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,000		5.92	19.6		1
07914	Boron	7440-42-8	0.814	J	0.352	4.89		1
01650	Calcium	7440-70-2	2,680		2.45	19.6		1
01654	Iron	7439-89-6	18,700		2.55	19.6		1
01656	Lithium	7439-93-2	24.8		0.61	2.0		1
01657	Magnesium	7439-95-4	3,950		0.431	9.79		1
06958	Manganese	7439-96-5	267		0.0352	0.489		1
10145	Phosphorus	7723-14-0	377		0.343	9.79		1
01662	Potassium	7440-09-7	3,430		11.1	48.9		1
01667	Sodium	7440-23-5	70.3	J	5.82	97.9		1
07968	Strontium	7440-24-6	10.9		0.0245	0.489		1
06969	Tin	7440-31-5	2.74	J	0.313	9.79		1
06970	Titanium	7440-32-6	1,150		0.0695	0.979		1
10146	Zirconium	7440-67-7	0.450	U	0.450	4.89		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.216		0.0739	0.200		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.24		0.0798	0.399		2
06126	Barium	7440-39-3	96.3		0.106	0.399		2
06127	Beryllium	7440-41-7	0.584		0.0160	0.0998		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP01-SA7-QC-091511 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA7-QC-091511

LLI Sample # SW 6409760
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4518 SDG#: DE245-18FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.209		0.0439	0.0998		2
06131	Chromium	7440-47-3	16.5		0.120	0.399		2
06132	Cobalt	7440-48-4	5.46		0.0200	0.0998		2
06133	Copper	7440-50-8	7.06		0.0798	0.399		2
06135	Lead	7439-92-1	27.3		0.0102	0.200		2
06138	Molybdenum	7439-98-7	0.405		0.0499	0.0998		2
06139	Nickel	7440-02-0	8.66		0.0998	0.399		2
06141	Selenium	7782-49-2	0.0766	J	0.0579	0.399		2
06142	Silver	7440-22-4	0.0463	J	0.0142	0.0998		2
06145	Thallium	7440-28-0	0.300		0.0299	0.0998		2
06148	Vanadium	7440-62-2	31.4		0.0220	0.0998		2
06149	Zinc	7440-66-6	159		0.559	2.99		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0070	U	0.0070	0.100		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80	U	0.80	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.38		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.80		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP01-SA7-QC-091511 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA7-QC-091511

LLI Sample # SW 6409760
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4518 SDG#: DE245-18FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11266SLB026	09/29/2011 15:46	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLC026	09/30/2011 01:53	Gregory J Drahovsky	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLC026	09/30/2011 09:20	Joseph M Gambler	100
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11266SLC026	09/26/2011 10:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11266SLB026	09/26/2011 03:00	David V Hershey Jr	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670005A	09/28/2011 00:05	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112640030A	09/29/2011 15:34	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112640028A	09/24/2011 10:36	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112640030A	09/22/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112640028A	09/22/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670005A	09/26/2011 21:35	Elaine F Stoltzfus	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112600026A	09/20/2011 01:30	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620011A	09/21/2011 01:06	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112650024A	09/23/2011 18:05	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112650007A	09/24/2011 07:43	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	112650007A	09/22/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112650024A	09/23/2011 07:55	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112600026A	09/19/2011 20:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620011A	09/19/2011 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112635708001	09/27/2011 01:57	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112635708001	09/27/2011 01:57	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112635708001	09/27/2011 01:57	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112635708001	09/27/2011 01:57	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112635708001	09/27/2011 01:57	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112635708001	09/27/2011 01:57	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112635708001	09/27/2011 01:57	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112635708001	09/27/2011 01:57	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112635708001	09/27/2011 01:57	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112635708001	09/27/2011 01:57	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112635708001	09/27/2011 01:57	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112635708001	09/27/2011 01:57	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112635708001	09/27/2011 01:57	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112635708001	09/27/2011 01:57	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112631026001A	09/21/2011 11:46	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026001A	09/21/2011 11:46	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026001D	09/21/2011 11:46	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026001A	09/21/2011 11:46	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112631026001A	09/21/2011 11:46	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP01-SA7-QC-091511 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA7-QC-091511

LLI Sample # SW 6409760
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4518 SDG#: DE245-18FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112631026001A	09/21/2011 11:46	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026001A	09/21/2011 11:46	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026001A	09/21/2011 11:46	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026001A	09/21/2011 18:34	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026001C	09/21/2011 11:46	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026001A	09/21/2011 11:46	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026001B	09/21/2011 11:46	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026001A	09/21/2011 11:46	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026001A	09/21/2011 11:46	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026001A	09/21/2011 11:46	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026001A	09/21/2011 18:34	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112635711002	09/21/2011 11:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708001	09/20/2011 21:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026001	09/20/2011 21:57	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711002	09/20/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11265621201B	09/24/2011 23:40	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11265621202B	09/24/2011 13:53	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11271243201A	09/30/2011 17:09	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11270102201A	09/27/2011 15:11	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11265621201B	09/22/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11265621202B	09/22/2011 08:07	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11270102201A	09/27/2011 10:15	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039402B	09/26/2011 09:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11271243201A	09/28/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403B	09/20/2011 19:11	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-179-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA7-SS-0.0-0.5

LLI Sample # SW 6409761
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 15:10

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4519 SDG#: DE245-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(g,h,i)perylene	191-24-2	19	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	21	J	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	210	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	22	J	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-179-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-179-SA7-SS-0.0-0.5

LLI Sample # SW 6409761
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 15:10

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4519 SDG#: DE245-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	130	J	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	4.5	J	3.3	8.3		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.3		5
10138	Anthracene	120-12-7	4.6	J	1.7	8.3		5
10138	Benzo(a)anthracene	56-55-3	28		3.3	8.3		5
10138	Benzo(a)pyrene	50-32-8	28		3.3	8.3		5
10138	Benzo(b)fluoranthene	205-99-2	53		3.3	8.3		5
10138	Benzo(k)fluoranthene	207-08-9	23		3.3	8.3		5
10138	Chrysene	218-01-9	40		1.7	8.3		5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	J	3.3	8.3		5
10138	Fluoranthene	206-44-0	110		3.3	8.3		5
10138	Fluorene	86-73-7	3.3	U	3.3	8.3		5
10138	1-Methylnaphthalene	90-12-0	3.3	U	3.3	8.3		5
10138	2-Methylnaphthalene	91-57-6	3.3	U	3.3	8.3		5
10138	Naphthalene	91-20-3	3.3	U	3.3	8.3		5
10138	N-Nitrosodimethylamine	62-75-9	3.3	U	3.3	8.3		5
10138	Phenanthrene	85-01-8	72		3.3	8.3		5
10138	Pyrene	129-00-0	73		3.3	8.3		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	4.4		0.63	1.7		1
10401	Dicamba	1918-00-9	0.52	J	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	270	U	270	270		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-179-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-179-SA7-SS-0.0-0.5

LLI Sample # SW 6409761
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 15:10

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4519 SDG#: DE245-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.33	U	0.33	0.84		5
01363	Alpha BHC	319-84-6	0.17	U	0.17	0.84		5
01363	Beta BHC	319-85-7	0.30	U	0.30	0.84		5
01363	Gamma BHC - Lindane	58-89-9	0.17	U	0.17	0.84		5
01363	Chlordane	57-74-9	4.0	U	4.0	17		5
01363	p,p-DDD	72-54-8	0.33	U	0.33	1.7		5
01363	p,p-DDE	72-55-9	0.61	U	0.61	1.7		5
01363	p,p-DDT	50-29-3	46		1.3	6.9		20
01363	Delta BHC	319-86-8	0.18	U	0.18	0.84		5
01363	Dieldrin	60-57-1	6.6	U	6.6	6.6		5
01363	Endosulfan I	959-98-8	0.22	U	0.22	0.84		5
01363	Endosulfan II	33213-65-9	1.4	U	1.4	1.7		5
01363	Endosulfan Sulfate	1031-07-8	0.44	U	0.44	1.7		5
01363	Endrin	72-20-8	3.6	U	3.6	3.6		5
01363	Endrin Aldehyde	7421-93-4	10	U	10	10		5
01363	Endrin Ketone	53494-70-5	0.33	U	0.33	1.7		5
01363	Heptachlor	76-44-8	0.30	U	0.30	0.84		5
01363	Heptachlor Epoxide	1024-57-3	0.56	U	0.56	0.84		5
01363	Methoxychlor	72-43-5	2.6	U	2.6	8.4		5
01363	Mirex	2385-85-5	0.33	U	0.33	1.7		5
01363	Toxaphene	8001-35-2	91	U	91	91		5
	The TCX surrogate data in the associated method blank is outside the client specified limits at 43%. However, the recovery is within our in-house statistical limits of 28-121. The DCB surrogate recovery is within the client specified limits. The TCX recovery is high enough to ensure minimal impact on the data. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	51	U	51	170		50
10225	Aroclor 5442	12642-23-8	51	U	51	170		50
10225	Aroclor 5460	11126-42-4	51	U	51	170		50
10225	PCB-1016	12674-11-2	17	U	17	86		50
10225	PCB-1221	11104-28-2	17	U	17	86		50
10225	PCB-1232	11141-16-5	17	U	17	86		50
10225	PCB-1242	53469-21-9	17	U	17	86		50
10225	PCB-1248	12672-29-6	17	U	17	86		50
10225	PCB-1254	11097-69-1	96		17	86		50
10225	PCB-1260	11096-82-5	400		20	86		50
10225	PCB-1262	37324-23-5	17	U	17	86		50
10225	PCB-1268	11100-14-4	17	U	17	86		50
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1

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Sample Description: **SL-179-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-179-SA7-SS-0.0-0.5

LLI Sample # SW 6409761
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 15:10

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4519 SDG#: DE245-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	0.70	J	0.41	1.2		1
10199	EFH (C21-C30)	n.a.	9.5		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	24		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.41	U	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,800		6.07	20.1		1
07914	Boron	7440-42-8	0.841	J	0.361	5.02		1
01650	Calcium	7440-70-2	2,060		2.51	20.1		1
01654	Iron	7439-89-6	17,200		2.62	20.1		1
01656	Lithium	7439-93-2	19.0		0.62	2.0		1
01657	Magnesium	7439-95-4	3,210		0.441	10.0		1
06958	Manganese	7439-96-5	189		0.0361	0.502		1
10145	Phosphorus	7723-14-0	231		0.351	10.0		1
01662	Potassium	7440-09-7	2,380		11.3	50.2		1
01667	Sodium	7440-23-5	73.3	J	5.97	100		1
07968	Strontium	7440-24-6	14.0		0.0251	0.502		1
06969	Tin	7440-31-5	2.90	J	0.321	10.0		1
06970	Titanium	7440-32-6	1,030		0.0712	1.00		1
10146	Zirconium	7440-67-7	0.461	U	0.461	5.02		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.177	J	0.0735	0.199		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.59		0.0795	0.397		2
06126	Barium	7440-39-3	82.3		0.105	0.397		2
06127	Beryllium	7440-41-7	0.571		0.0159	0.0993		2
06128	Cadmium	7440-43-9	0.233		0.0437	0.0993		2
06131	Chromium	7440-47-3	14.1		0.119	0.397		2
06132	Cobalt	7440-48-4	5.17		0.0199	0.0993		2
06133	Copper	7440-50-8	6.20		0.0795	0.397		2

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Sample Description: SL-179-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA7-SS-0.0-0.5

LLI Sample # SW 6409761
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 15:10

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

E4519 SDG#: DE245-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	17.2		0.0101	0.199		2
06138	Molybdenum	7439-98-7	0.583		0.0497	0.0993		2
06139	Nickel	7440-02-0	7.81		0.0993	0.397		2
06141	Selenium	7782-49-2	0.141	J	0.0576	0.397		2
06142	Silver	7440-22-4	0.0455	J	0.0141	0.0993		2
06145	Thallium	7440-28-0	0.240		0.0298	0.0993		2
06148	Vanadium	7440-62-2	33.3		0.0219	0.0993		2
06149	Zinc	7440-66-6	135		0.556	2.98		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0567	J	0.0069	0.0986		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.49	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.91		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Sample Description: **SL-179-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-179-SA7-SS-0.0-0.5

LLI Sample # SW 6409761
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E4519 SDG#: DE245-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11266SLB026	09/29/2011 16:11	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLC026	09/30/2011 02:26	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11266SLC026	09/26/2011 10:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11266SLB026	09/26/2011 03:00	David V Hershey Jr	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670005A	09/28/2011 00:32	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112640030A	09/29/2011 16:16	Melissa McDermott	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	112640030A	09/29/2011 16:30	Melissa McDermott	20
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112640028A	09/26/2011 11:25	Jamie L Brillhart	50
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112640030A	09/22/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112640028A	09/22/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670005A	09/26/2011 21:35	Elaine F Stoltzfus	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112600026A	09/21/2011 01:31	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620011A	09/21/2011 01:19	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112650024A	09/23/2011 17:21	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112650007A	09/24/2011 05:44	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112650007A	09/22/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112650024A	09/23/2011 07:55	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112600026A	09/19/2011 20:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620011A	09/19/2011 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112635708001	09/27/2011 02:01	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112635708001	09/27/2011 02:01	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112635708001	09/27/2011 02:01	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112635708001	09/27/2011 02:01	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112635708001	09/27/2011 02:01	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112635708001	09/27/2011 02:01	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112635708001	09/27/2011 02:01	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112635708001	09/27/2011 02:01	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112635708001	09/27/2011 02:01	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112635708001	09/27/2011 02:01	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112635708001	09/27/2011 02:01	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112635708001	09/27/2011 02:01	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112635708001	09/27/2011 02:01	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112635708001	09/27/2011 02:01	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112631026001A	09/21/2011 11:49	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026001A	09/21/2011 11:49	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026001D	09/21/2011 11:49	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026001A	09/21/2011 11:49	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112631026001A	09/21/2011 11:49	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-179-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-179-SA7-SS-0.0-0.5

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E4519 SDG#: DE245-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112631026001A	09/21/2011 11:49	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026001A	09/21/2011 11:49	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026001A	09/21/2011 11:49	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026001A	09/21/2011 18:38	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026001C	09/21/2011 11:49	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026001A	09/21/2011 11:49	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026001B	09/21/2011 11:49	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026001A	09/21/2011 11:49	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026001A	09/21/2011 11:49	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026001A	09/21/2011 11:49	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026001A	09/21/2011 11:49	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112635711002	09/21/2011 11:10	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708001	09/20/2011 21:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026001	09/20/2011 21:57	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711002	09/20/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11265621201B	09/24/2011 23:53	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11265621202B	09/24/2011 14:16	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11271243201A	09/30/2011 17:23	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11270102201A	09/27/2011 15:13	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11265621201B	09/22/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11265621202B	09/22/2011 08:07	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11270102201A	09/27/2011 10:15	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039402B	09/26/2011 09:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11271243201A	09/28/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403B	09/20/2011 19:11	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-098-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA7-SS-0.0-0.5

LLI Sample # SW 6409762
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 15:25

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4520 SDG#: DE245-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(a)anthracene	56-55-3	47	J	17	170		1
04688	Benzo(a)pyrene	50-32-8	49	J	17	170		1
04688	Benzo(b)fluoranthene	205-99-2	75	J	17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	48	J	17	170		1
04688	Benzo(k)fluoranthene	207-08-9	28	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Chrysene	218-01-9	68	J	17	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	340		17	340		1
04688	Fluoranthene	206-44-0	130	J	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	35	J	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1

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Sample Description: **SL-098-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-098-SA7-SS-0.0-0.5

LLI Sample # SW 6409762
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 15:25

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4520 SDG#: DE245-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	130	J	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenanthrene	85-01-8	80	J	17	170		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	120	J	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.3	U	3.3	8.3		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.3		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.3		5
10138	Di-n-butylphthalate	84-74-2	34	J	30	89		5
10138	Dibenz(a,h)anthracene	53-70-3	3.3	U	3.3	8.3		5
10138	Fluorene	86-73-7	3.3	U	3.3	8.3		5
10138	1-Methylnaphthalene	90-12-0	3.3	U	3.3	8.3		5
10138	2-Methylnaphthalene	91-57-6	3.3	U	3.3	8.3		5
10138	Naphthalene	91-20-3	3.3	U	3.3	8.3		5
10138	N-Nitrosodimethylamine	62-75-9	3.3	U	3.3	8.3		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	17	U	17	17		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	4.8		0.80	1.7		1
10401	MCPA	94-74-6	76	U	76	250		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.32	U	0.32	0.32		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory							

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Sample Description: **SL-098-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-098-SA7-SS-0.0-0.5

LLI Sample # SW 6409762
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 15:25

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4520 SDG#: DE245-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	7.1		0.80	3.4		1
01363	p,p-DDD	72-54-8	0.70	U	0.70	0.70		1
01363	p,p-DDE	72-55-9	0.91		0.066	0.34		1
01363	p,p-DDT	50-29-3	3.2		0.33	1.7		5
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.10	U	0.10	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.13	U	0.13	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34		1
01363	Endrin	72-20-8	0.066	U	0.066	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.14	U	0.14	0.34		1
01363	Endrin Ketone	53494-70-5	0.066	U	0.066	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.063	U	0.063	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.21	U	0.21	0.34		1
01363	Toxaphene	8001-35-2	7.8	U	7.8	7.8		1
	The TCX surrogate data in the associated method blank is outside the client specified limits at 43%. However, the recovery is within our in-house statistical limits of 28-121. The DCB surrogate recovery is within the client specified limits. The TCX recovery is high enough to ensure minimal impact on the data. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	5.7		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	1.3	J	0.33	1.7		1
10225	PCB-1254	11097-69-1	4.1		0.33	1.7		1
10225	PCB-1260	11096-82-5	4.7		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	100	U	100	500		1

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Sample Description: **SL-098-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-098-SA7-SS-0.0-0.5

LLI Sample # SW 6409762
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
Suite 210
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E4520 SDG#: DE245-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.0	U	4.0	12		10
10199	EFH (C15-C20)	n.a.	4.0	U	4.0	12		10
10199	EFH (C21-C30)	n.a.	42		4.0	12		10
10199	EFH (C30 - C40)	n.a.	220		4.0	12		10
10199	EFH (C8-C11)	n.a.	4.0	U	4.0	12		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,700		5.87	19.4		1
07914	Boron	7440-42-8	1.01	J	0.349	4.85		1
01650	Calcium	7440-70-2	3,290		2.42	19.4		1
01654	Iron	7439-89-6	24,000		2.53	19.4		1
01656	Lithium	7439-93-2	25.4		0.60	1.9		1
01657	Magnesium	7439-95-4	4,120		0.427	9.69		1
06958	Manganese	7439-96-5	318		0.0349	0.485		1
10145	Phosphorus	7723-14-0	531		0.339	9.69		1
01662	Potassium	7440-09-7	3,690		11.0	48.5		1
01667	Sodium	7440-23-5	119		5.77	96.9		1
07968	Strontium	7440-24-6	18.7		0.0242	0.485		1
06969	Tin	7440-31-5	3.21	J	0.310	9.69		1
06970	Titanium	7440-32-6	1,100		0.0688	0.969		1
10146	Zirconium	7440-67-7	0.446	U	0.446	4.85		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.190	J	0.0731	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.47		0.0791	0.395		2
06126	Barium	7440-39-3	97.6		0.105	0.395		2
06127	Beryllium	7440-41-7	0.600		0.0158	0.0988		2
06128	Cadmium	7440-43-9	0.450		0.0435	0.0988		2
06131	Chromium	7440-47-3	15.2		0.119	0.395		2
06132	Cobalt	7440-48-4	5.39		0.0198	0.0988		2
06133	Copper	7440-50-8	11.3		0.0791	0.395		2

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Sample Description: **SL-098-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-098-SA7-SS-0.0-0.5

LLI Sample # SW 6409762
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14420 Albemarle Point Place
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E4520 SDG#: DE245-20*

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead		7439-92-1	19.3		0.0101	0.198		2
06138	Molybdenum		7439-98-7	0.542		0.0494	0.0988		2
06139	Nickel		7440-02-0	8.55		0.0988	0.395		2
06141	Selenium		7782-49-2	0.0920	J	0.0573	0.395		2
06142	Silver		7440-22-4	0.749		0.0140	0.0988		2
06145	Thallium		7440-28-0	0.277		0.0297	0.0988		2
06148	Vanadium		7440-62-2	30.5		0.0217	0.0988		2
06149	Zinc		7440-66-6	171		0.554	2.97		2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0068	U	0.0068	0.0972		1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	0.80	U	0.80	0.99		1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	9.1	U	9.1	30.2		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.73	J	0.20	1.0		1
		SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B		57-12-5	0.18	U	0.18	0.50		1
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C		n.a.	7.02		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	0.82		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-098-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA7-SS-0.0-0.5

LLI Sample # SW 6409762
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 15:25

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4520 SDG#: DE245-20*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11266SLB026	09/29/2011 16:36	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLC026	09/30/2011 02:59	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11266SLC026	09/26/2011 10:00	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11266SLB026	09/26/2011 03:00	David V Hershey Jr	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670005A	09/28/2011 01:00	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112640030A	09/29/2011 16:59	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112640030A	09/30/2011 21:38	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112640028A	09/24/2011 09:59	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112640030A	09/22/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112640028A	09/22/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670005A	09/26/2011 21:35	Elaine F Stoltzfus	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112600026A	09/21/2011 01:45	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620011A	09/21/2011 01:31	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112650024A	09/23/2011 20:16	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112650007A	09/24/2011 09:42	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112650007A	09/22/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112650024A	09/23/2011 07:55	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112600026A	09/19/2011 20:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620011A	09/19/2011 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112635708001	09/27/2011 02:06	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112635708001	09/27/2011 02:06	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112635708001	09/27/2011 02:06	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112635708001	09/27/2011 02:06	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112635708001	09/27/2011 02:06	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112635708001	09/27/2011 02:06	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112635708001	09/27/2011 02:06	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112635708001	09/27/2011 02:06	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112635708001	09/27/2011 02:06	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112635708001	09/27/2011 02:06	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112635708001	09/27/2011 02:06	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112635708001	09/27/2011 02:06	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112635708001	09/27/2011 02:06	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112635708001	09/27/2011 02:06	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112631026001A	09/21/2011 11:52	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026001A	09/21/2011 11:52	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026001D	09/21/2011 11:52	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026001A	09/21/2011 11:52	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112631026001A	09/21/2011 11:52	Choon Y Tian	2

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Sample Description: **SL-098-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-098-SA7-SS-0.0-0.5

LLI Sample # SW 6409762
LLI Group # 1266997
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 15:25

Submitted: 09/17/2011 09:15
Reported: 10/07/2011 14:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4520 SDG#: DE245-20*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112631026001A	09/21/2011 11:52	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026001A	09/21/2011 11:52	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026001A	09/21/2011 11:52	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026001A	09/21/2011 18:43	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026001C	09/21/2011 11:52	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026001A	09/21/2011 11:52	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026001B	09/21/2011 11:52	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026001A	09/21/2011 11:52	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026001A	09/21/2011 11:52	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026001A	09/21/2011 11:52	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026001A	09/21/2011 18:43	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112635711002	09/21/2011 11:11	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708001	09/20/2011 21:55	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026001	09/20/2011 21:57	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711002	09/20/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11265621201B	09/25/2011 00:06	Joseph E McKenzie	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11265621202B	09/24/2011 14:39	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11271243201A	09/30/2011 17:43	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11270102201A	09/27/2011 15:14	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11265621201B	09/22/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11265621202B	09/22/2011 08:07	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11270102201A	09/27/2011 10:15	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039402B	09/26/2011 09:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11271243201A	09/28/2011 10:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403B	09/20/2011 19:11	Scott W Freisher	1

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266997
Reported: 10/07/11 at 02:17 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11265SLB026	Sample number(s): 6409758									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	108		70-130		
Batch number: 11266SLB026	Sample number(s): 6409738-6409754,6409758-6409762									
Acenaphthene	3	U	3.	17	ug/kg	99		76-111		
Acenaphthylene	3	U	3.	17	ug/kg	107		75-122		
Aniline	170 U		170.	500	ug/kg	74		20-115		
Anthracene	3	U	3.	17	ug/kg	101		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	37		15-121		
Benzo(a)anthracene	3	U	3.	17	ug/kg	95		73-112		
Benzo(a)pyrene	3	U	3.	17	ug/kg	105		65-124		
Benzo(b)fluoranthene	3	U	3.	17	ug/kg	103		61-127		
Benzo(g,h,i)perylene	3	U	3.	17	ug/kg	104		60-125		
Benzo(k)fluoranthene	3	U	3.	17	ug/kg	103		67-125		
Benzoic acid	170 U		170.	500	ug/kg	63		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	102		68-111		
4-Bromophenyl-phenylether	17	U	17.	33	ug/kg	96		73-114		
Butylbenzylphthalate	67	U	67.	170	ug/kg	99		75-115		
Di-n-butylphthalate	67	U	67.	170	ug/kg	101		79-112		
Carbazole	17	U	17.	33	ug/kg	98		77-113		
4-Chloro-3-methylphenol	17	U	17.	33	ug/kg	106		74-119		
4-Chloroaniline	17	U	17.	33	ug/kg	44		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	33	ug/kg	100		70-118		
bis(2-Chloroethyl)ether	17	U	17.	33	ug/kg	102		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	33	ug/kg	93		62-115		
2-Chloronaphthalene	7	U	7.	33	ug/kg	90		49-128		
2-Chlorophenol	17	U	17.	33	ug/kg	109		72-112		
4-Chlorophenyl-phenylether	17	U	17.	33	ug/kg	96		74-115		
Chrysene	3	U	3.	17	ug/kg	92		76-113		
Dibenz(a,h)anthracene	3	U	3.	17	ug/kg	105		61-126		
Dibenzofuran	17	U	17.	33	ug/kg	98		74-116		
1,2-Dichlorobenzene	17	U	17.	33	ug/kg	90		74-99		
1,3-Dichlorobenzene	17	U	17.	33	ug/kg	92		70-98		
1,4-Dichlorobenzene	17	U	17.	33	ug/kg	91		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	43		10-116		
2,4-Dichlorophenol	17	U	17.	33	ug/kg	103		75-111		
Diethylphthalate	67	U	67.	170	ug/kg	101		76-111		
2,4-Dimethylphenol	17	U	17.	33	ug/kg	107		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	106		83-120		
Dimethylphthalate	67	U	67.	170	ug/kg	103		77-109		
4,6-Dinitro-2-methylphenol	170		170.	500	ug/kg	50		46-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266997
Reported: 10/07/11 at 02:17 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	26		18-133		
2,4-Dinitrotoluene	67	U	67.	170	ug/kg	102		73-115		
2,6-Dinitrotoluene	17	U	17.	33	ug/kg	107		79-115		
1,2-Diphenylhydrazine	17	U	17.	33	ug/kg	102		71-125		
bis(2-Ethylhexyl)phthalate	67	U	67.	170	ug/kg	100		75-117		
Fluoranthene	3	U	3.	17	ug/kg	101		78-116		
Fluorene	3	U	3.	17	ug/kg	102		75-116		
Hexachlorobenzene	3	U	3.	17	ug/kg	95		73-119		
Hexachlorobutadiene	17	U	17.	33	ug/kg	92		65-117		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	83		46-115		
Hexachloroethane	33	U	33.	170	ug/kg	91		61-109		
Indeno(1,2,3-cd)pyrene	3	U	3.	17	ug/kg	105		64-119		
Isophorone	17	U	17.	33	ug/kg	101		69-110		
1-Methylnaphthalene	3	U	3.	17	ug/kg	95		74-105		
2-Methylnaphthalene	3	U	3.	17	ug/kg	101		69-109		
2-Methylphenol	17	U	17.	33	ug/kg	109		66-110		
4-Methylphenol	17	U	17.	33	ug/kg	102		66-117		
Naphthalene	3	U	3.	17	ug/kg	99		73-106		
2-Nitroaniline	17	U	17.	33	ug/kg	96		78-116		
3-Nitroaniline	67	U	67.	170	ug/kg	92		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	64		49-98		
Nitrobenzene	17	U	17.	33	ug/kg	102		66-119		
2-Nitrophenol	17	U	17.	33	ug/kg	106		76-111		
4-Nitrophenol	170 U		170.	500	ug/kg	89		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	33	ug/kg	95		63-107		
N-Nitrosodimethylamine	67	U	67.	170	ug/kg	88		60-106		
N-Nitrosodiphenylamine	17	U	17.	33	ug/kg	103		67-141		
Di-n-octylphthalate	67	U	67.	170	ug/kg	101		62-137		
Pentachlorophenol	33	U	33.	170	ug/kg	87		51-117		
Phenanthrene	3	U	3.	17	ug/kg	97		77-113		
Phenol	17	U	17.	33	ug/kg	107		58-112		
Pyrene	3	U	3.	17	ug/kg	95		75-115		
Tetralin	33	U	33.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	33	ug/kg	96		73-108		
2,4,5-Trichlorophenol	17	U	17.	33	ug/kg	101		76-107		
2,4,6-Trichlorophenol	17	U	17.	33	ug/kg	107		78-111		
Batch number: 11266SLC026	Sample number(s): 6409738-6409754,6409758-6409762									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	90		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	84		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	88		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	88		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	90		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	101		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	100		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	94		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	93		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	101		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	91		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	99		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	99		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	95		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	91		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	93		64-120		

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266997
Reported: 10/07/11 at 02:17 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluorene	0.67	U	0.67	1.7	ug/kg	90		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	99		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	84		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	82		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	86		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	84		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	100		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	87		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	90		72-119		
Batch number: 112640025A	Sample number(s): 6409758									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	106		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	103		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	66	81	54-134	20	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	66	81	54-134	20	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	107		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	98		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	105		80-120		
HMX	100 U		100.	300	ug/kg	92		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	98		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	85		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	99		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	105		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	98		80-120		
PETN	800 U		800.	2,400	ug/kg	100		80-120		
RDX	50	U	50.	120	ug/kg	104		75-131		
Tetryl	61	U	61.	120	ug/kg	94		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	103		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	105		80-120		
Batch number: 112620004A	Sample number(s): 6409758									
20a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	108		80-126		
Batch number: 112670005A	Sample number(s): 6409747-6409754,6409756-6409762									
2,4-D	1.2	U	1.2	3.6	ug/kg	88		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	69		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	76		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	95		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	4*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	107		62-170		
MCPA	76	U	76.	250	ug/kg	96		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	64		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	92		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	72		68-114		
Batch number: 112690003A	Sample number(s): 6409738									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	97		85-115		
Batch number: 112640028A	Sample number(s): 6409738-6409754,6409756,6409758-6409762									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	83	81	36-106	2	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	93		72-120		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266997
Reported: 10/07/11 at 02:17 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	101		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112640030A	Sample number(s): 6409747-6409754,6409756-6409762									
Aldrin	0.066	U	0.066	0.17	ug/kg	58		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	56		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	84		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	62		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	94		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	85		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	94		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	81		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	78		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	56		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	89		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	106		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	82		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	76		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	92		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	59		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	76		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	99		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 112700010A	Sample number(s): 6409757									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	80	74	36-106	7	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	89		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	96		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112600026A	Sample number(s): 6409747-6409750,6409757,6409760-6409762									
Ethanol	100 U		100.	500	ug/kg	106		71-129		
Isopropanol	100 U		100.	500	ug/kg	100		75-125		
Methanol	100 U		100.	500	ug/kg	113		68-129		
Batch number: 112620011A	Sample number(s): 6409747-6409750,6409752-6409754,6409758-6409762									
Diethylene glycol	5.0	U	5.0	10	mg/kg	89		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	90		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	79		67-131		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266997
Reported: 10/07/11 at 02:17 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 112640035A	Sample number(s): 6409752-6409754,6409756,6409758-6409759									
Ethanol	100 U		100.	500	ug/kg	86		71-129		
Isopropanol	100 U		100.	500	ug/kg	86		75-125		
Methanol	100 U		100.	500	ug/kg	88		68-129		
Batch number: 112650007A	Sample number(s): 6409747-6409750,6409752-6409754,6409756-6409762									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	92		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	96		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	104		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	94		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	81		49-107		
Batch number: 112650024A	Sample number(s): 6409747-6409750,6409752-6409754,6409756-6409762									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	92		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	93		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	94		69-109		
Batch number: 112631026001A	Sample number(s): 6409738-6409755,6409758-6409762									
Antimony	0.0740	U	0.0740	0.200	mg/kg	111		10-224		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	109		78-122		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	109		80-120		
Cadmium	0.0440	U	0.0440	0.100	mg/kg	107		81-119		
Chromium	0.120	U	0.120	0.400	mg/kg	117		77-123		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	106		80-119		
Copper	0.0800	U	0.0800	0.400	mg/kg	105		78-122		
Lead	0.0102	U	0.0102	0.200	mg/kg	109		77-123		
Nickel	0.100	U	0.100	0.400	mg/kg	109		80-120		
Silver	0.0142	U	0.0142	0.100	mg/kg	110		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	109		75-124		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	122		76-124		
Zinc	0.560	U	0.560	3.00	mg/kg	110		79-121		
Batch number: 112631026001B	Sample number(s): 6409738-6409755,6409758-6409762									
Selenium	0.0580	U	0.0580	0.400	mg/kg	112		77-123		
Batch number: 112631026001C	Sample number(s): 6409738-6409755,6409758-6409762									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	113		76-123		
Batch number: 112631026001D	Sample number(s): 6409738-6409755,6409758-6409762									
Barium	0.106	U	0.106	0.400	mg/kg	112		80-120		
Batch number: 112635708001	Sample number(s): 6409738-6409755,6409758-6409762									
Aluminum	8.87	J	6.05	20.0	mg/kg	157		42-158		
Boron	0.994	J	0.360	5.00	mg/kg	109		66-134		
Calcium	18.7	J	2.50	20.0	mg/kg	106		79-121		
Iron	2.86	J	2.61	20.0	mg/kg	142		51-149		
Lithium	0.62	U	0.62	2.0	mg/kg	102		80-120		
Magnesium	2.32	J	0.440	10.0	mg/kg	129		64-136		
Manganese	0.0360	U	0.0360	0.500	mg/kg	103		78-122		
Phosphorus	1.51	J	0.350	10.0	mg/kg	105		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	124		69-131		
Sodium	5.95	U	5.95	100	mg/kg	112		71-129		
Strontium	0.104	J	0.0250	0.500	mg/kg	105		81-119		
Tin	1.89	J	0.320	10.0	mg/kg	98		74-126		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266997
Reported: 10/07/11 at 02:17 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Titanium	0.174	J	0.0710	1.00	mg/kg	100		80-120		
Zirconium	0.460	U	0.460	5.00	mg/kg	103		80-120		
Batch number: 112635711002	Sample number(s): 6409738-6409755,6409758-6409762									
Mercury	0.0067	U	0.0067	0.0958	mg/kg	111		72-128		
Batch number: 11265621201A	Sample number(s): 6409738-6409747									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	92		90-110		
Batch number: 11265621201B	Sample number(s): 6409748-6409753,6409755,6409758-6409762									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	92		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	97		90-110		
Batch number: 11265621202A	Sample number(s): 6409738-6409747									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	110		85-115		
Batch number: 11265621202B	Sample number(s): 6409748-6409753,6409755,6409758-6409762									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	110		85-115		
Batch number: 11270102201A	Sample number(s): 6409747-6409750,6409752-6409753,6409755,6409758-6409762									
16a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	97		80-120		
Batch number: 11271243201A	Sample number(s): 6409738-6409753,6409755,6409758-6409762									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	89		80-120		
Batch number: 11269039402A	Sample number(s): 6409738-6409746									
17a pH by 9045C						100		95-105		
Batch number: 11269039402B	Sample number(s): 6409747-6409752,6409755,6409758-6409762									
17a pH by 9045C						100		95-105		
Batch number: 11263162403A	Sample number(s): 6409738-6409747									
Moisture Content by 160.3						100		80-120		
Batch number: 11263162403B	Sample number(s): 6409748-6409756,6409759-6409762									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Batch number: 11272162401B	Sample number(s): 6409758									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11265SLB026	Sample number(s): 6409758 UNSPK: P406203								
N-Nitrosodimethylamine	55*	44*	70-130	19	30				
Batch number: 11266SLB026	Sample number(s): 6409738-6409754,6409758-6409762 UNSPK: 6409752								
Acenaphthene	97	108	75-115	11	30				

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Quality Control Summary

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Acenaphthylene	106	115*	81-110	8	30				
Aniline	54	75	18-116	32*	30				
Anthracene	97	109	75-115	12	30				
Benzidine	27*	46	35-141	50*	30				
Benzo(a)anthracene	81	90	65-122	10	30				
Benzo(a)pyrene	91	104	57-126	12	30				
Benzo(b)fluoranthene	85	102	59-125	16	30				
Benzo(g,h,i)perylene	98	110	59-127	11	30				
Benzo(k)fluoranthene	93	109	56-132	15	30				
Benzoic acid	0*	0*	10-173	0	30				
Benzyl alcohol	99	98	67-115	0	30				
4-Bromophenyl-phenylether	92	103	67-129	11	30				
Butylbenzylphthalate	101	111	73-134	10	30				
Di-n-butylphthalate	101	114	67-123	13	30				
Carbazole	92	105	64-120	13	30				
4-Chloro-3-methylphenol	98	101	62-122	4	30				
4-Chloroaniline	47	82	13-107	55*	30				
bis(2-Chloroethoxy)methane	93	97	75-104	5	30				
bis(2-Chloroethyl)ether	93	95	60-116	2	30				
bis(2-Chloroisopropyl)ether	88	88	55-142	1	30				
2-Chloronaphthalene	84	92	50-141	10	30				
2-Chlorophenol	101	101	73-121	1	30				
4-Chlorophenyl-phenylether	90	101	80-109	11	30				
Chrysene	76	85	62-128	10	30				
Dibenz(a,h)anthracene	102	117	65-125	14	30				
Dibenzofuran	94	106	71-112	13	30				
1,2-Dichlorobenzene	92	89	66-108	3	30				
1,3-Dichlorobenzene	91	88	63-109	3	30				
1,4-Dichlorobenzene	86	87	58-108	2	30				
3,3'-Dichlorobenzidine	53	75	28-109	35*	30				
2,4-Dichlorophenol	92	95	66-123	3	30				
Diethylphthalate	95	106	66-118	12	30				
2,4-Dimethylphenol	101	103	68-118	3	30				
3,5-Dimethylphenol	95	98	71-127	4	30				
Dimethylphthalate	94	104	64-118	10	30				
4,6-Dinitro-2-methylphenol	0*	0*	11-126	0	30				
2,4-Dinitrophenol	0*	0*	20-143	0	30				
2,4-Dinitrotoluene	87	99	56-129	13	30				
2,6-Dinitrotoluene	99	113	69-123	13	30				
1,2-Diphenylhydrazine	105	116	71-129	10	30				
bis(2-Ethylhexyl)phthalate	95	109	63-122	11	30				
Fluoranthene	73	88	73-112	15	30				
Fluorene	98	108	63-121	10	30				
Hexachlorobenzene	91	98	77-114	7	30				
Hexachlorobutadiene	91	91	62-120	0	30				
Hexachlorocyclopentadiene	41	37	10-153	9	30				
Hexachloroethane	88	86	57-109	3	30				
Indeno(1,2,3-cd)pyrene	100	115	61-126	14	30				
Isophorone	97	98	73-102	1	30				
1-Methylnaphthalene	91	95	64-122	4	30				
2-Methylnaphthalene	94	99	76-114	6	30				
2-Methylphenol	100	102	75-111	3	30				
4-Methylphenol	94	99	59-123	6	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266997
Reported: 10/07/11 at 02:17 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Naphthalene	97	99	72-116	2	30				
2-Nitroaniline	97	111	67-125	14	30				
3-Nitroaniline	90	103	59-122	15	30				
4-Nitroaniline	62	80	41-109	26	30				
Nitrobenzene	101	102	57-125	1	30				
2-Nitrophenol	72	75	56-127	4	30				
4-Nitrophenol	46	53	37-129	15	30				
N-Nitroso-di-n-propylamine	87	90	60-116	4	30				
N-Nitrosodimethylamine	88	82	47-116	7	30				
N-Nitrosodiphenylamine	102	112	71-122	9	30				
Di-n-octylphthalate	106	119	56-126	11	30				
Pentachlorophenol	0*	0*	28-127	0	30				
Phenanthrene	85	97	65-125	12	30				
Phenol	98	103	58-126	5	30				
Pyrene	77	90	74-126	13	30				
1,2,4-Trichlorobenzene	93	95	72-115	2	30				
2,4,5-Trichlorophenol	75	81	58-129	8	30				
2,4,6-Trichlorophenol	72	77	56-134	7	30				
Batch number: 11266SLC026	Sample number(s): 6409738-6409754,6409758-6409762 UNSPK: 6409752								
Acenaphthene	91	83	63-105	7	30				
Acenaphthylene	81	84	67-114	3	30				
Anthracene	40*	59*	73-115	14	30				
Benzo(a)anthracene	-214 (2)	-61 (2)	59-128	29	30				
Benzo(a)pyrene	-146 (2)	-10 (2)	58-142	22	30				
Benzo(b)fluoranthene	-206 (2)	3 (2)	54-163	19	30				
Benzo(g,h,i)perylene	-20*	45	33-141	21	30				
Benzo(k)fluoranthene	-74 (2)	24 (2)	57-153	20	30				
Butylbenzylphthalate	119	93	57-173	24	30				
Di-n-butylphthalate	111	104	65-148	6	30				
Chrysene	-144 (2)	34 (2)	67-123	22	30				
Dibenz(a,h)anthracene	17*	34	22-133	14	30				
Diethylphthalate	105	101	70-136	3	30				
Dimethylphthalate	0*	0*	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	323*	183*	39-167	55*	30				
Fluoranthene	-388 (2)	-92 (2)	51-149	16	30				
Fluorene	83	86	66-122	3	30				
Indeno(1,2,3-cd)pyrene	-10*	56	21-143	19	30				
1-Methylnaphthalene	82	83	72-123	1	30				
2-Methylnaphthalene	77	79	64-103	2	30				
Naphthalene	86	85	61-102	1	30				
N-Nitrosodimethylamine	71	75	48-113	5	30				
Di-n-octylphthalate	100	99	40-192	0	30				
Phenanthrene	82 (2)	62 (2)	62-122	2	30				
Pyrene	-261 (2)	-10 (2)	51-131	19	30				
Batch number: 112640025A	Sample number(s): 6409758 UNSPK: P404514								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266997
Reported: 10/07/11 at 02:17 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Amino-2,6-Dinitrotoluene	106	105	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	103	101	80-137	2	50				
1,3-Dinitrobenzene	106	105	38-166	1	50				
2,4-Dinitrotoluene	98	96	80-131	2	50				
2,6-Dinitrotoluene	102	103	80-127	1	50				
HMX	91	92	63-128	0	50				
Nitrobenzene	99	98	80-125	1	50				
Nitroglycerin	96	95	80-120	1	50				
2-Nitrotoluene	96	97	80-122	0	50				
3-Nitrotoluene	102	102	72-119	0	50				
4-Nitrotoluene	95	96	80-125	0	50				
PETN	104	102	80-121	1	50				
RDX	94	93	75-129	2	50				
Tetryl	80	82	55-174	3	50				
1,3,5-Trinitrobenzene	93	93	82-126	1	50				
2,4,6-Trinitrotoluene	103	103	82-130	0	50				
Batch number: 112620004A	Sample number(s): 6409758 UNSPK: P404354								
20a Formaldehyde 8315A	111	113	80-120	2	50				
Batch number: 112670005A	Sample number(s): 6409747-6409754,6409756-6409762 UNSPK: 6409752								
2,4-D	97	95	17-180	3	35				
Dalapon	70	76	10-125	9	50				
2,4-DB	52	67	10-201	13	50				
Dicamba	151	154	10-190	2	50				
Dinoseb	7*	7*	10-46	7	35				
2,4-DP (Dichlorprop)	100	105	33-178	5	50				
MCPA	51	43	10-213	17	50				
MCPP (Mecoprop)	23	22	10-184	3	50				
2,4,5-T	18	43	10-156	82*	35				
2,4,5-TP	55	58	24-141	4	35				
Batch number: 112690003A	Sample number(s): 6409738 UNSPK: P415779								
6a Perchlorate EPA 6850	106	110	80-120	4	20				
Batch number: 112640028A	Sample number(s): 6409738-6409754,6409756,6409758-6409762 UNSPK: 6409752								
PCB-1016	85	89	29-146	5	50				
PCB-1260	68	73	39-149	5	50				
Batch number: 112640030A	Sample number(s): 6409747-6409754,6409756-6409762 UNSPK: 6409752								
Aldrin	67	61	16-126	10	50				
Alpha BHC	65	59	10-129	10	50				
Beta BHC	63	47	14-147	29	50				
Gamma BHC - Lindane	68	59	10-140	14	50				
p,p-DDD	579*	388*	16-163	40	50				
p,p-DDE	102	97	18-161	5	50				
p,p-DDT	162	151	10-176	7	50				
Delta BHC	67	64	23-140	4	50				
Dieldrin	0*	0*	19-154	0	50				
Endosulfan I	65	56	16-137	15	50				
Endosulfan II	114	74	28-154	43	50				
Endosulfan Sulfate	72	55	21-160	27	50				
Endrin	81	73	11-149	10	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266997
Reported: 10/07/11 at 02:17 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Endrin Aldehyde	0*	0*	10-148	0	35				
Endrin Ketone	70	68	22-165	2	50				
Heptachlor	74	68	13-126	8	50				
Heptachlor Epoxide	91	94	13-157	3	50				
Methoxychlor	160*	96	32-147	50	50				
Batch number: 112700010A	Sample number(s): 6409757 UNSPK: P414168								
PCB-1016	95	87	29-146	8	50				
PCB-1260	100	78	39-149	19	50				
Batch number: 112600026A	Sample number(s): 6409747-6409750,6409757,6409760-6409762 UNSPK: P409752								
Ethanol	28*	22*	48-130	19	20				
Isopropanol	54	40	12-149	31*	20				
Methanol	50	49	43-138	2	20				
Batch number: 112620011A	Sample number(s): 6409747-6409750,6409752-6409754,6409758-6409762 UNSPK: 6409752								
Diethylene glycol	15*	17*	59-109	10	20				
Ethylene glycol	43*	44*	63-107	1	20				
Propylene glycol	55*	54*	63-107	1	20				
Batch number: 112640035A	Sample number(s): 6409752-6409754,6409756,6409758-6409759 UNSPK: 6409752								
Ethanol	90	90	48-130	1	20				
Isopropanol	94	94	12-149	0	20				
Methanol	97	94	43-138	2	20				
Batch number: 112650007A	Sample number(s): 6409747-6409750,6409752-6409754,6409756-6409762 UNSPK: 6409752								
EFH (C12-C14)	106	105	49-123	1	20				
EFH (C15-C20)	166*	171*	49-123	2	20				
EFH (C21-C30)	470 (2)	430 (2)	49-123	3	20				
EFH (C30 - C40)	612 (2)	705 (2)	49-123	4	20				
EFH (C8-C11)	0*	0*	49-123	0	20				
Batch number: 112650024A	Sample number(s): 6409747-6409750,6409752-6409754,6409756-6409762 UNSPK: 6409752								
m-Terphenyl	92	93	75-125	1	20				
o-Terphenyl	93	95	75-125	2	20				
p-Terphenyl	93	96	75-125	3	20				
Batch number: 112631026001A	Sample number(s): 6409738-6409755,6409758-6409762 UNSPK: 6409752 BKG: 6409752								
Antimony	41*	44*	75-125	4	20	0.405	0.325	22* (1)	20
Arsenic	-43*	-69 (2)	75-125	7	20	7.78	5.55	33*	20
Beryllium	113	108	75-125	4	20	0.638	0.567	12	20
Cadmium	135*	129*	75-125	5	20	0.197	2.78	174* (1)	20
Chromium	89	177*	75-125	27*	20	18.5	15.7	16	20
Cobalt	127*	123	75-125	5	20	7.14	7.69	7	20
Copper	83	75	75-125	5	20	10.5	8.50	21*	20
Lead	78 (2)	124 (2)	75-125	6	20	17.2	34.9	68*	20
Nickel	96	98	75-125	0	20	11.3	10.2	10	20
Silver	136*	130*	75-125	7	20	0.0250 J	0.0446 J	56* (1)	20
Thallium	117	107	75-125	6	20	0.381	0.313	20 (1)	20
Vanadium	44*	126 (2)	75-125	17	20	39.3	36.2	8	20
Zinc	-202 (2)	56 (2)	75-125	16	20	163	4,340	185*	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266997
Reported: 10/07/11 at 02:17 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 112631026001B	Sample number(s): 6409738-6409755,6409758-6409762 UNSPK: 6409752 BKG: 6409752								
Selenium	130*	125	75-125	6	20	0.0998 J	0.110 J	10 (1)	20
Batch number: 112631026001C	Sample number(s): 6409738-6409755,6409758-6409762 UNSPK: 6409752 BKG: 6409752								
Molybdenum	137*	130*	75-125	7	20	0.684	0.480	35* (1)	20
Batch number: 112631026001D	Sample number(s): 6409738-6409755,6409758-6409762 UNSPK: 6409752 BKG: 6409752								
Barium	-62 (2)	-30 (2)	75-125	3	20	115	109	6	20
Batch number: 112635708001	Sample number(s): 6409738-6409755,6409758-6409762 UNSPK: 6409752 BKG: 6409752								
Aluminum	564 (2)	148 (2)	75-125	6	20	12,500	11,300	10	20
Boron	100	99	84-115	2	20	1.54 J	1.10 J	33* (1)	20
Calcium	81 (2)	64 (2)	75-125	2	20	2,750	2,630	4	20
Iron	-310 (2)	-690 (2)	75-125	2	20	18,300	18,100	1	20
Lithium	101	101	82-114	1	20	24.4	24.0	2	20
Magnesium	26 (2)	46 (2)	75-125	1	20	3,820	3,570	7	20
Manganese	84 (2)	80 (2)	75-125	1	20	267	255	5	20
Phosphorus	84	87	75-125	0	20	368	356	3	20
Potassium	109	114	75-125	1	20	3,260	3,160	3	20
Sodium	96	96	75-125	1	20	70.9 J	68.4 J	4 (1)	20
Strontium	98	97	75-115	2	20	11.6	10.6	9	20
Tin	92	92	80-110	1	20	2.94 J	2.90 J	1 (1)	20
Titanium	142 (2)	154 (2)	75-125	1	20	1,170	1,110	5	20
Zirconium	100	100	75-125	1	20	0.447 U	0.630 J	200* (1)	20
Batch number: 112635711002	Sample number(s): 6409738-6409755,6409758-6409762 UNSPK: 6409752 BKG: 6409752								
Mercury	110	112	65-135	2	20	0.0069 U	0.0069 U	0 (1)	20
Batch number: 11265621201A	Sample number(s): 6409738-6409747 UNSPK: 6409738 BKG: 6409738								
11a Anions by 300.0 - Fluoride	50*		80-120			3.0	3.0	1 (1)	20
Batch number: 11265621201B	Sample number(s): 6409748-6409753,6409755,6409758-6409762 UNSPK: 6409752 BKG: 6409752								
11a Anions by 300.0 - Fluoride	68*		80-120			1.4	1.0	33* (1)	20
11a Anions by 300.0 - Nitrate	95		80-120			2.0	2.3	15 (1)	20
Batch number: 11265621202A	Sample number(s): 6409738-6409747 UNSPK: 6409738 BKG: 6409738								
7a Perchlorate EPA 314.0	99		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11265621202B	Sample number(s): 6409748-6409753,6409755,6409758-6409762 UNSPK: 6409752 BKG: 6409752								
7a Perchlorate EPA 314.0	112		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11270102201A	Sample number(s): 6409747-6409750,6409752-6409753,6409755,6409758-6409762 UNSPK: 6409752 BKG: 6409752								
16a Cyanide by 9012B	97		75-125			0.17 U	0.18 U	0 (1)	20
Batch number: 11271243201A	Sample number(s): 6409738-6409753,6409755,6409758-6409762 UNSPK: 6409752 BKG: 6409752								
3a Cr VI by EPA 7199	88		75-125			0.35 J	0.55 J	43* (1)	20
Batch number: 11269039402A	Sample number(s): 6409738-6409746 BKG: 6409738								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266997
Reported: 10/07/11 at 02:17 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
17a pH by 9045C						7.90	7.86	1	3
Batch number: 11269039402B	Sample number(s): 6409747-6409752,6409755,6409758-6409762					BKG: 6409752			
17a pH by 9045C						7.44	7.34	1	3
Batch number: 11263162403A	Sample number(s): 6409738-6409747					BKG: 6409743			
Moisture Content by 160.3						8.1	8.1	1	20
Batch number: 11263162403B	Sample number(s): 6409748-6409756,6409759-6409762					BKG: 6409752			
28a Moisture Content by 160.3						0.85	0.81	6 (1)	20
Moisture Content by 160.3						0.85	0.81	6 (1)	20
Moisture Content by 160.3						0.85	0.81	6 (1)	20
Batch number: 11272162401B	Sample number(s): 6409758					BKG: P412126			
Moisture Content by 160.3						6.6	7.0	5	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 21a NDMA by 1625C
Batch number: 11265SLB026

	N-Nitrosodimethylamine-d6
6409758	125
Blank	74
LCS	79
MS	193*
MSD	170*
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11266SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6409738	93	100	76	89	90	84
6409739	94	103	44	89	89	85
6409740	87	95	72	87	89	83
6409741	89	96	76	92	91	84
6409742	91	98	75	91	93	86
6409743	89	96	80	91	92	88
6409744	101	110	41	102	106	99
6409745	95	105	78	99	99	90
6409746	98	107	97	98	98	90
6409747	100	106	93	98	99	94
6409748	100	109	83	96	95	85
6409749	104	112	96	100	102	97

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266997
Reported: 10/07/11 at 02:17 PM

Surrogate Quality Control

6409750	92	100	77	91	92	80
6409751	98	106	92	101	106	96
6409752	98	110	104	104	110	92
6409753	96	106	42	96	95	83
6409754	98	106	45	97	104	93
6409758	102	106	91	96	101	93
6409759	101	110	86	102	106	89
6409760	103	110	87	103	105	95
6409761	105	112	91	104	105	92
6409762	104	113	91	102	109	95
Blank	105	113	91	95	90	85
LCS	108	113	95	97	97	85
MS	96	106	42	96	95	83
MSD	98	106	45	97	104	93
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11266SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6409738	82	77	82
6409739	88	84	81
6409740	83	77	77
6409741	88	83	86
6409742	90	86	87
6409743	82	78	82
6409744	85	81	85
6409745	80	75	78
6409746	88	82	100
6409747	89	83	131
6409748	87	85	101
6409749	86	83	85
6409750	95	81	77
6409751	83	77	77
6409752	85	81	80
6409753	89	83	82
6409754	86	81	79
6409758	88	82	87
6409759	86	76	122
6409760	87	81	109
6409761	74	69	65
6409762	91	84	82
Blank	91	85	89
LCS	89	85	90
MS	89	83	82
MSD	86	81	79
Limits:	40-130	45-130	45-135

Analysis Name: 20a Formaldehyde 8315A
Batch number: 112620004A

	Butyraldehyde
6409758	103
Blank	102
LCS	87
MS	100

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266997
Reported: 10/07/11 at 02:17 PM

Surrogate Quality Control

MSD	102	

Limits: 64-126

Analysis Name: 15a Energetics by 8330A
Batch number: 112640025A

	2-Nitro-m-xylene
6409758	114
Blank	114
LCS	115
LCSD	134
MS	108
MSD	109

Limits: 80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112640028A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6409738	109	109
6409739	104	105
6409740	124	120
6409741	109	111
6409742	99	96
6409743	106	101
6409744	106	110
6409745	129	128*
6409746	114	115
6409747	61	64
6409748	72	53
6409749	68	62
6409750	88	62
6409751	82	62
6409752	106	91
6409753	96	76
6409754	101	76
6409756	95	115
6409758	65	67
6409759	54	62
6409760	83	101
6409761	73	100
6409762	106	128*
Blank	110	111
LCS	112	111
LCSD	116	118
MS	96	76
MSD	101	76
Limits:	53-139	45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 112640030A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6409747	43*	3283*

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266997
Reported: 10/07/11 at 02:17 PM

Surrogate Quality Control

6409748	60	470*
6409749	59	856*
6409750	66	580*
6409751	53	83
6409752	50	870*
6409753	64	472*
6409754	57	289*
6409756	53	1343*
6409757	44*	68
6409758	50	2875*
6409759	52	3141*
6409760	62	767*
6409761	50	89
6409762	58	87
Blank	42*	100
LCS	55	99
MS	64	472*
MSD	57	289*
Limits:	50-130	20-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 112670005A

	2,4-Dichlorophenylacetic acid
6409747	70
6409748	137
6409749	125
6409750	91
6409751	131
6409752	111
6409753	128
6409754	126
6409756	86
6409757	99
6409758	79
6409759	77
6409760	113
6409761	100
6409762	89
Blank	98
LCS	91
MS	128
MSD	126
Limits:	36-156

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112700010A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6409757	95	99
Blank	97	96
LCS	94	94
LCSD	98	102
MS	99	97

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266997
Reported: 10/07/11 at 02:17 PM

Surrogate Quality Control

MSD	93	88
Limits:	53-139	45-120

Analysis Name: 18a Alcohols by 8015B
Batch number: 112600026A

	Acetone
6409747	118
6409748	61
6409749	85
6409750	101
6409757	111
6409760	120
6409761	96
6409762	93
Blank	108
LCS	107
MS	68
MSD	48
Limits:	42-138

Analysis Name: 19a Glycols by 8015B
Batch number: 112620011A

	Tetramethylene glycol
6409747	81
6409748	80
6409749	85
6409750	84
6409752	76
6409753	81
6409754	85
6409758	81
6409759	85
6409760	82
6409761	82
6409762	86
Blank	86
LCS	90
MS	81
MSD	85
Limits:	29-137

Analysis Name: 18a Alcohols by 8015B
Batch number: 112640035A

	Acetone
6409752	105
6409753	106
6409754	107
6409756	102
6409758	110
6409759	62
Blank	99

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266997
Reported: 10/07/11 at 02:17 PM

Surrogate Quality Control

LCS	94	
MS	106	
MSD	107	
Limits:	42-138	

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112650007A

	Chlorobenzene	Orthoterphenyl
6409747	82	201*
6409748	85	112
6409749	79	113
6409750	78	94
6409752	82	101
6409753	77	105
6409754	87	115
6409756	87	100
6409757	86	101
6409758	81	152*
6409759	82	309*
6409760	76	120
6409761	87	106
6409762	90	106
Blank	88	103
LCS	88	102
MS	77	105
MSD	87	115
Limits:	37-125	47-145

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112650024A

	n-Triacontane-d62
6409747	627*
6409748	172*
6409749	113
6409750	1004*
6409752	110
6409753	95
6409754	139
6409756	79
6409757	66
6409758	33
6409759	170*
6409760	79
6409761	73
6409762	91
Blank	67
LCS	67
MS	95
MSD	139
Limits:	19-152

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Quality Control Summary

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Reported: 10/07/11 at 02:17 PM

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acct# 13013 Cap# 1266997 Sample# 6409738-62

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil for 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C	Perchlorate Confirmation by EPA 8850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-034-SA7-SB-4.0-5.0	9/16/11	1100	SOIL	None	2 16oz Jars	X	X	X	X	X	X	X	X	X													
SL-034-SA7-SB-9.0-10.0		1110				X	X	X	X	X	X	X	X														
SL-035-SA7-SB-4.0-5.0		0940				X	X	X	X	X	X	X	X														
SL-035-SA7-SB-9.0-10.0		0944				X	X	X	X	X	X	X	X														
SL-079-SA7-SB-2.0-3.0		0826				X	X	X	X	X	X	X	X														
SL-080-SA7-SB-4.0-5.0		1215				X	X	X	X	X	X	X	X														
SL-080-SA7-SB-9.0-10.0		1218				X	X	X	X	X	X	X	X														
SL-146-SA7-SB-4.0-5.0		1443				X	X	X	X	X	X	X	X														
SL-146-SA7-SB-9.0-10.0		1446				X	X	X	X	X	X	X	X														

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Laboratory:
			9/17/11 0915	Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**		
		8734 3341 ~~8734~~		

5897 PH 9/16/11

acct# 13013 Ap# 1266997 sample# 6409738-62

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers
SL-007-SA7-SS-00-05	9/16/11	0745	Soil	None	1 SS 16oz + 2 Jars
SL-157-SA7-SS-00-05		0925			
SL-086-SA7-SS-00-05		0810			
SL-087-SA7-SS-00-05		0845			

PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B/7471A; *Fluoride EPA 300.0; *SVOCs EPA 8270C & PAHs 8270 SIM; PCBs/PCTs EPA 8082; *Dioxin/Furan EPA 1613B; *Perchlorate EPA 314.0; *Hex Chrome EPA 7199@; @pH EPA 9045C; Perchlorate Confirmation by EPA 6850 (10%)

VOCs: *VOCs EPA 8260B $ (Pesticide); *1,4-Dioxane EPA 8260SIM $ (Low Level); TPH-GRO EPA 8015B $

SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.; **Nitrates EPA 300.0; **Formaldehyde EPA 8315A; **n-NDMA EPA 1625C; **Energetics EPA 8330A; **Cyanide EPA 9012B; **Terphenyls EPA 8015B; **Glycols EPA 8015B; **Alcohols EPA 8015B

Other Instructions and Notes

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	9/16/11 1600	9/17/11 0915	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8754 3341 5864	

13013/1266997/6409738-C2

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers
Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/6/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 8850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EPH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonsal EPA 8270
					PRIMARY FOR ALL LOCATIONS										SS ONLY		SECONDARY FOR ALL LOCATIONS										
SL-007-SA7-SS-0.0-0.5	09.16.11	0745	SOIL	NONE	1 SS Sleeve & 2 Jar	X	X	X	X	X	X	X	X		X	X										
SL-157-SA7-SS-0.0-0.5	09.16.11	0825	SOIL	NONE	1 SS Sleeve & 2 Jar	X	X	X	X	X	X	X	X		X	X	X					X	X	X	X	
SL-086-SA7-SS-0.0-0.5	09.16.11	0810	SOIL	NONE	1 SS Sleeve & 2 Jar	X	X	X	X	X	X	X	X		X	X	X					X	X	X	X	
SL-087-SA7-SS-0.0-0.5	09.16.11	0845	SOIL	NONE	1 SS Sleeve & 2 Jar	X	X	X	X	X	X	X	X		X	X	X					X	X	X	X	

Other Instructions and Notes: Amended COC

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	09/16/2011 / 1600		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8754 3341 5864	

acct#13013 Cp# 1266997 Sample# 6409138-62

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs EPA 8260B (Perchlorate)	1,4 Dioxane EPA 8260B SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-026-SA7-SS-0.0-0.5	9/14/11	1535	Soil	None	1 Sleeve + 1 Jar	X	X	X	X	X	X	X	X	X	X	X											no perchlorate
SL-008-SA7-SS-0.0-0.5 MS	9/15/11	1355			2 Sleeves + 4 Jars	X	X	X	X	X	X	X	X		X	X		X					X	X	X	X	MS/MSD
SL-045-SA7-SS-0.0-0.5	9/15/11	1430			1 Sleeve + 2 Jar	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	
SL-090-SA7-SS-0.0-0.5	9/15/11	1525			3 Jars	X	X	X	X	X	X	X	X		X	X		X					X	X	X	X	Unable to collect sleeve
DUP01-SA7-QC-091511	9/15/11	1355			1 Sleeve + 2 Jars	X	X	X	X	X	X	X	X		X	X		X					X	X	X	X	
SL-179-SA7-SS-0.0-0.5	9/16/11	1510			" "	X	X	X	X	X	X	X	X		X	X		X					X	X	X	X	
SL-098-SA7-SS-0.0-0.5	9/16/11	1525			" "	X	X	X	X	X	X	X	X		X	X		X					X	X	X	X	

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	
	9/16/11 1600		9/17/11 0915
Received by: (Signature)	Date/Time	Airbill No.(s)	
		875433415875	

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 20, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/17/2011
Group Number: 1266998
SDG: DX136
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-034-SA7-SB-4.0-5.0 Soil	6409763
SL-034-SA7-SB-9.0-10.0 Soil	6409764
SL-035-SA7-SB-4.0-5.0 Soil	6409765
SL-035-SA7-SB-9.0-10.0 Soil	6409766
SL-079-SA7-SB-2.0-3.0 Soil	6409767
SL-080-SA7-SB-4.0-5.0 Soil	6409768
SL-080-SA7-SB-9.0-10.0 Soil	6409769
SL-146-SA7-SB-4.0-5.0 Soil	6409770
SL-146-SA7-SB-9.0-10.0 Soil	6409771
SL-007-SA7-SS-0.0-0.5 Soil	6409772
SL-157-SA7-SS-0.0-0.5 Soil	6409773
SL-086-SA7-SS-0.0-0.5 Soil	6409774
SL-087-SA7-SS-0.0-0.5 Soil	6409775
SL-026-SA7-SS-0.0-0.5 Soil	6409776
SL-008-SA7-SS-0.0-0.5 Soil	6409777
SL-008-SA7-SS-0.0-0.5MS Soil	6409778
SL-008-SA7-SS-0.0-0.5MSD Soil	6409779
SL-045-SA7-SS-0.0-0.5 Soil	6409780
SL-090-SA7-SS-0.0-0.5 Soil	6409781
DUP01-SA7-QC-091511 Soil	6409782
SL-179-SA7-SS-0.0-0.5 Soil	6409783
SL-098-SA7-SS-0.0-0.5 Soil	6409784

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Lancaster Laboratories

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Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

ELECTRONIC COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-034-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA7-SB-4.0-5.0

LLI Sample # SW 6409763
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:00

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3601 SDG#: DX136-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-034-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA7-SB-4.0-5.0

LLI Sample # SW 6409763
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:00

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3601 SDG#: DX136-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0685	U	0.0685	1.07	1
11031	12378-PeCDD	40321-76-4	0.0602	U	0.0602	5.37	1
11031	123478-HxCDD	39227-28-6	0.0334	U	0.0334	5.37	1
11031	123678-HxCDD	57653-85-7	0.0497	JBQ	0.0331	5.37	1
11031	123789-HxCDD	19408-74-3	0.0933	JBQ	0.0334	5.37	1
11031	1234678-HpCDD	35822-46-9	0.304	JB	0.0370	5.37	1
11031	OCDD	3268-87-9	0.777	JBQ	0.0379	10.7	1
11031	2378-TCDF	51207-31-9	0.0526	U	0.0526	1.07	1
11031	12378-PeCDF	57117-41-6	0.0491	JBQ	0.0259	5.37	1
11031	23478-PeCDF	57117-31-4	0.0752	JBQ	0.0256	5.37	1
11031	123478-HxCDF	70648-26-9	0.115	JBQ	0.0267	5.37	1
11031	123678-HxCDF	57117-44-9	0.0407	JBQ	0.0233	5.37	1
11031	123789-HxCDF	72918-21-9	0.133	J	0.0295	5.37	1
11031	234678-HxCDF	60851-34-5	0.0496	JBQ	0.0246	5.37	1
11031	1234678-HpCDF	67562-39-4	0.214	JB	0.0179	5.37	1
11031	1234789-HpCDF	55673-89-7	0.0418	JB	0.0259	5.37	1
11031	OCDF	39001-02-0	0.219	JB	0.0487	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	104	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	85	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-034-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA7-SB-4.0-5.0

LLI Sample # SW 6409763
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:00

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3601 SDG#: DX136-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-034-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA7-SB-4.0-5.0

LLI Sample # SW 6409763
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:00

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3601 SDG#: DX136-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11270002	09/29/2011 07:35	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11270002	09/27/2011 09:50	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403A	09/20/2011 19:11	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-034-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA7-SB-9.0-10.0

LLI Sample # SW 6409764
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:10

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3602 SDG#: DX136-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-034-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA7-SB-9.0-10.0

LLI Sample # SW 6409764
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:10

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3602 SDG#: DX136-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0411	U	0.0411	1.06	1
11031	12378-PeCDD	40321-76-4	0.0358	U	0.0358	5.30	1
11031	123478-HxCDD	39227-28-6	0.0229	U	0.0229	5.30	1
11031	123678-HxCDD	57653-85-7	0.0397	JB	0.0223	5.30	1
11031	123789-HxCDD	19408-74-3	0.0542	JB	0.0206	5.30	1
11031	1234678-HpCDD	35822-46-9	0.272	JB	0.0245	5.30	1
11031	OCDD	3268-87-9	0.552	JB	0.0237	10.6	1
11031	2378-TCDF	51207-31-9	0.0428	J	0.0343	1.06	1
11031	12378-PeCDF	57117-41-6	0.0196	JBQ	0.0186	5.30	1
11031	23478-PeCDF	57117-31-4	0.0529	JBQ	0.0176	5.30	1
11031	123478-HxCDF	70648-26-9	0.0411	JBQ	0.0171	5.30	1
11031	123678-HxCDF	57117-44-9	0.0392	JBQ	0.0153	5.30	1
11031	123789-HxCDF	72918-21-9	0.125	JQ	0.0186	5.30	1
11031	234678-HxCDF	60851-34-5	0.0694	JB	0.0149	5.30	1
11031	1234678-HpCDF	67562-39-4	0.215	JB	0.0129	5.30	1
11031	1234789-HpCDF	55673-89-7	0.0438	JBQ	0.0197	5.30	1
11031	OCDF	39001-02-0	0.216	JB	0.0338	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	103	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	83	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-034-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA7-SB-9.0-10.0

LLI Sample # SW 6409764
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:10

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3602 SDG#: DX136-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-034-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA7-SB-9.0-10.0

LLI Sample # SW 6409764
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:10

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3602 SDG#: DX136-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11270002	09/29/2011 08:31	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11270002	09/27/2011 09:50	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403A	09/20/2011 19:11	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-035-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA7-SB-4.0-5.0

LLI Sample # SW 6409765
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 09:40

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3603 SDG#: DX136-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-035-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA7-SB-4.0-5.0

LLI Sample # SW 6409765
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 09:40

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3603 SDG#: DX136-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0732	U	0.0732	1.06	1
11031	12378-PeCDD	40321-76-4	0.0587	U	0.0587	5.31	1
11031	123478-HxCDD	39227-28-6	0.0313	U	0.0313	5.31	1
11031	123678-HxCDD	57653-85-7	0.0305	U	0.0305	5.31	1
11031	123789-HxCDD	19408-74-3	0.0644	JBQ	0.0286	5.31	1
11031	1234678-HpCDD	35822-46-9	0.349	JB	0.0319	5.31	1
11031	OCDD	3268-87-9	0.665	JB	0.0312	10.6	1
11031	2378-TCDF	51207-31-9	0.0584	U	0.0584	1.06	1
11031	12378-PeCDF	57117-41-6	0.0578	JBQ	0.0251	5.31	1
11031	23478-PeCDF	57117-31-4	0.0643	JBQ	0.0239	5.31	1
11031	123478-HxCDF	70648-26-9	0.0533	JBQ	0.0267	5.31	1
11031	123678-HxCDF	57117-44-9	0.0422	JBQ	0.0221	5.31	1
11031	123789-HxCDF	72918-21-9	0.0400	J	0.0292	5.31	1
11031	234678-HxCDF	60851-34-5	0.0568	JB	0.0230	5.31	1
11031	1234678-HpCDF	67562-39-4	0.204	JBQ	0.0143	5.31	1
11031	1234789-HpCDF	55673-89-7	0.0247	U	0.0247	5.31	1
11031	OCDF	39001-02-0	0.188	JBQ	0.0435	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	102	23 - 140
13C12-OCDD	120	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	112	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	88	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-035-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA7-SB-4.0-5.0

LLI Sample # SW 6409765
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 09:40

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3603 SDG#: DX136-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-035-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA7-SB-4.0-5.0

LLI Sample # SW 6409765
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 09:40

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3603 SDG#: DX136-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11270002	09/29/2011 09:28	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11270002	09/27/2011 09:50	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403A	09/20/2011 19:11	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-035-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA7-SB-9.0-10.0

LLI Sample # SW 6409766
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 09:44

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3604 SDG#: DX136-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-035-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-035-SA7-SB-9.0-10.0

LLI Sample # SW 6409766
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 09:44

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3604 SDG#: DX136-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0689	U	0.0689	1.08	1
11031	12378-PeCDD	40321-76-4	0.0884	JBQ	0.0522	5.39	1
11031	123478-HxCDD	39227-28-6	0.0330	U	0.0330	5.39	1
11031	123678-HxCDD	57653-85-7	0.0466	JBQ	0.0325	5.39	1
11031	123789-HxCDD	19408-74-3	0.0525	JBQ	0.0303	5.39	1
11031	1234678-HpCDD	35822-46-9	0.210	JBQ	0.0374	5.39	1
11031	OCDD	3268-87-9	0.588	JB	0.0368	10.8	1
11031	2378-TCDF	51207-31-9	0.0543	U	0.0543	1.08	1
11031	12378-PeCDF	57117-41-6	0.0273	U	0.0273	5.39	1
11031	23478-PeCDF	57117-31-4	0.0679	JB	0.0263	5.39	1
11031	123478-HxCDF	70648-26-9	0.0670	JBQ	0.0232	5.39	1
11031	123678-HxCDF	57117-44-9	0.0504	JB	0.0202	5.39	1
11031	123789-HxCDF	72918-21-9	0.0258	U	0.0258	5.39	1
11031	234678-HxCDF	60851-34-5	0.0654	JBQ	0.0199	5.39	1
11031	1234678-HpCDF	67562-39-4	0.229	JB	0.0180	5.39	1
11031	1234789-HpCDF	55673-89-7	0.0284	U	0.0284	5.39	1
11031	OCDF	39001-02-0	0.358	JBQ	0.0524	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	60	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	101	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	78	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-035-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA7-SB-9.0-10.0

LLI Sample # SW 6409766
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 09:44

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3604 SDG#: DX136-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-035-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-035-SA7-SB-9.0-10.0

LLI Sample # SW 6409766
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 09:44

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3604 SDG#: DX136-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11270002	09/29/2011 10:25	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11270002	09/27/2011 09:50	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403A	09/20/2011 19:11	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-079-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-079-SA7-SB-2.0-3.0

LLI Sample # SW 6409767
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:26

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3605 SDG#: DX136-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-079-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-079-SA7-SB-2.0-3.0

LLI Sample # SW 6409767
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:26

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3605 SDG#: DX136-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0708	U	0.0708	1.03	1
11031	12378-PeCDD	40321-76-4	0.0608	U	0.0608	5.13	1
11031	123478-HxCDD	39227-28-6	0.0378	U	0.0378	5.13	1
11031	123678-HxCDD	57653-85-7	0.0378	U	0.0378	5.13	1
11031	123789-HxCDD	19408-74-3	0.0484	JB	0.0368	5.13	1
11031	1234678-HpCDD	35822-46-9	0.451	JB	0.0445	5.13	1
11031	OCDD	3268-87-9	2.84	JB	0.0380	10.3	1
11031	2378-TCDF	51207-31-9	0.0658	U	0.0658	1.03	1
11031	12378-PeCDF	57117-41-6	0.0655	JBQ	0.0287	5.13	1
11031	23478-PeCDF	57117-31-4	0.0805	JBQ	0.0296	5.13	1
11031	123478-HxCDF	70648-26-9	0.104	JB	0.0332	5.13	1
11031	123678-HxCDF	57117-44-9	0.0375	JB	0.0276	5.13	1
11031	123789-HxCDF	72918-21-9	0.0648	J	0.0367	5.13	1
11031	234678-HxCDF	60851-34-5	0.0838	JB	0.0304	5.13	1
11031	1234678-HpCDF	67562-39-4	0.343	JB	0.0198	5.13	1
11031	1234789-HpCDF	55673-89-7	0.0382	U	0.0382	5.13	1
11031	OCDF	39001-02-0	0.506	JB	0.0604	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	103	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	73	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-079-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-079-SA7-SB-2.0-3.0

LLI Sample # SW 6409767
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:26

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3605 SDG#: DX136-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-079-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-079-SA7-SB-2.0-3.0

LLI Sample # SW 6409767
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:26

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3605 SDG#: DX136-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11270002	09/29/2011 11:21	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11270002	09/27/2011 09:50	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403A	09/20/2011 19:11	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-080-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-080-SA7-SB-4.0-5.0

LLI Sample # SW 6409768
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 12:15

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3606 SDG#: DX136-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-080-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-080-SA7-SB-4.0-5.0

LLI Sample # SW 6409768
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 12:15

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3606 SDG#: DX136-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0639 U	0.0639	1.07	1
11031	12378-PeCDD	40321-76-4	0.119 JBQ	0.0530	5.37	1
11031	123478-HxCDD	39227-28-6	0.0361 U	0.0361	5.37	1
11031	123678-HxCDD	57653-85-7	0.0871 JB	0.0362	5.37	1
11031	123789-HxCDD	19408-74-3	0.129 JB	0.0360	5.37	1
11031	1234678-HpCDD	35822-46-9	0.339 JB	0.0335	5.37	1
11031	OCDD	3268-87-9	0.670 JBQ	0.0307	10.7	1
11031	2378-TCDF	51207-31-9	0.0504 U	0.0504	1.07	1
11031	12378-PeCDF	57117-41-6	0.162 JBQ	0.0230	5.37	1
11031	23478-PeCDF	57117-31-4	0.185 JB	0.0234	5.37	1
11031	123478-HxCDF	70648-26-9	0.132 JBQ	0.0257	5.37	1
11031	123678-HxCDF	57117-44-9	0.101 JB	0.0230	5.37	1
11031	123789-HxCDF	72918-21-9	0.140 JQ	0.0299	5.37	1
11031	234678-HxCDF	60851-34-5	0.121 JBQ	0.0235	5.37	1
11031	1234678-HpCDF	67562-39-4	0.231 JBQ	0.0146	5.37	1
11031	1234789-HpCDF	55673-89-7	0.0560 JBQ	0.0257	5.37	1
11031	OCDF	39001-02-0	0.293 JB	0.0465	10.7	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	107	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	80	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-080-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-080-SA7-SB-4.0-5.0

LLI Sample # SW 6409768
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 12:15

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3606 SDG#: DX136-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-080-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-080-SA7-SB-4.0-5.0

LLI Sample # SW 6409768
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 12:15

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3606 SDG#: DX136-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11270002	09/29/2011 12:18	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11270002	09/27/2011 09:50	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403A	09/20/2011 19:11	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-080-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-080-SA7-SB-9.0-10.0

LLI Sample # SW 6409769
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 12:18

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3607 SDG#: DX136-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-080-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-080-SA7-SB-9.0-10.0

LLI Sample # SW 6409769
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 12:18

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3607 SDG#: DX136-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0651 U	0.0651	1.10	1
11031	12378-PeCDD	40321-76-4	0.116 JBQ	0.0554	5.48	1
11031	123478-HxCDD	39227-28-6	0.0423 JBQ	0.0354	5.48	1
11031	123678-HxCDD	57653-85-7	0.111 JBQ	0.0350	5.48	1
11031	123789-HxCDD	19408-74-3	0.0878 JBQ	0.0332	5.48	1
11031	1234678-HpCDD	35822-46-9	0.305 JBQ	0.0353	5.48	1
11031	OCDD	3268-87-9	0.662 JBQ	0.0393	11.0	1
11031	2378-TCDF	51207-31-9	0.0585 JQ	0.0513	1.10	1
11031	12378-PeCDF	57117-41-6	0.102 JBQ	0.0309	5.48	1
11031	23478-PeCDF	57117-31-4	0.141 JBQ	0.0311	5.48	1
11031	123478-HxCDF	70648-26-9	0.0906 JBQ	0.0337	5.48	1
11031	123678-HxCDF	57117-44-9	0.0575 JB	0.0288	5.48	1
11031	123789-HxCDF	72918-21-9	0.107 JQ	0.0362	5.48	1
11031	234678-HxCDF	60851-34-5	0.0557 JBQ	0.0298	5.48	1
11031	1234678-HpCDF	67562-39-4	0.227 JBQ	0.0184	5.48	1
11031	1234789-HpCDF	55673-89-7	0.0288 U	0.0288	5.48	1
11031	OCDF	39001-02-0	0.266 JB	0.0543	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	93	23 - 140
13C12-OCDD	98	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	60	24 - 185
13C12-23478-PeCDF	53	21 - 178
13C12-123478-HxCDF	51	26 - 152
13C12-123678-HxCDF	58	26 - 123
13C12-234678-HxCDF	53	28 - 136
13C12-123789-HxCDF	54	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	62	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-080-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-080-SA7-SB-9.0-10.0

LLI Sample # SW 6409769
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 12:18

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3607 SDG#: DX136-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-080-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-080-SA7-SB-9.0-10.0

LLI Sample # SW 6409769
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 12:18

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3607 SDG#: DX136-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11270002	09/29/2011 13:15	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11270002	09/27/2011 09:50	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403A	09/20/2011 19:11	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-146-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA7-SB-4.0-5.0

LLI Sample # SW 6409770
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:43

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3608 SDG#: DX136-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-146-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA7-SB-4.0-5.0

LLI Sample # SW 6409770
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:43

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3608 SDG#: DX136-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0695 J	0.0590	1.06	1
11031	12378-PeCDD	40321-76-4	0.0747 JBQ	0.0467	5.28	1
11031	123478-HxCDD	39227-28-6	0.0322 U	0.0322	5.28	1
11031	123678-HxCDD	57653-85-7	0.0403 JBQ	0.0325	5.28	1
11031	123789-HxCDD	19408-74-3	0.0900 JBQ	0.0323	5.28	1
11031	1234678-HpCDD	35822-46-9	0.288 JB	0.0424	5.28	1
11031	OCDD	3268-87-9	0.581 JB	0.0301	10.6	1
11031	2378-TCDF	51207-31-9	0.0433 U	0.0433	1.06	1
11031	12378-PeCDF	57117-41-6	0.0485 JBQ	0.0254	5.28	1
11031	23478-PeCDF	57117-31-4	0.0937 JB	0.0262	5.28	1
11031	123478-HxCDF	70648-26-9	0.0972 JB	0.0248	5.28	1
11031	123678-HxCDF	57117-44-9	0.0218 U	0.0218	5.28	1
11031	123789-HxCDF	72918-21-9	0.161 J	0.0301	5.28	1
11031	234678-HxCDF	60851-34-5	0.0424 JBQ	0.0229	5.28	1
11031	1234678-HpCDF	67562-39-4	0.239 JB	0.0144	5.28	1
11031	1234789-HpCDF	55673-89-7	0.0880 JBQ	0.0287	5.28	1
11031	OCDF	39001-02-0	0.281 JBQ	0.0635	10.6	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	98	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	64	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-146-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA7-SB-4.0-5.0

LLI Sample # SW 6409770
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:43

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3608 SDG#: DX136-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-146-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA7-SB-4.0-5.0

LLI Sample # SW 6409770
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:43

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3608 SDG#: DX136-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11270002	09/29/2011 17:44	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11270002	09/27/2011 09:50	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403A	09/20/2011 19:11	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-146-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA7-SB-9.0-10.0

LLI Sample # SW 6409771
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:46

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3609 SDG#: DX136-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-146-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA7-SB-9.0-10.0

LLI Sample # SW 6409771
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:46

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3609 SDG#: DX136-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0678	U	0.0678	1.08	1
11031	12378-PeCDD	40321-76-4	0.0573	U	0.0573	5.40	1
11031	123478-HxCDD	39227-28-6	0.0366	U	0.0366	5.40	1
11031	123678-HxCDD	57653-85-7	0.109	JBQ	0.0357	5.40	1
11031	123789-HxCDD	19408-74-3	0.239	JBQ	0.0340	5.40	1
11031	1234678-HpCDD	35822-46-9	0.323	JB	0.0383	5.40	1
11031	OCDD	3268-87-9	0.822	JB	0.0294	10.8	1
11031	2378-TCDF	51207-31-9	0.0612	U	0.0612	1.08	1
11031	12378-PeCDF	57117-41-6	0.106	JBQ	0.0281	5.40	1
11031	23478-PeCDF	57117-31-4	0.0972	JBQ	0.0278	5.40	1
11031	123478-HxCDF	70648-26-9	0.0693	JB	0.0303	5.40	1
11031	123678-HxCDF	57117-44-9	0.0250	U	0.0250	5.40	1
11031	123789-HxCDF	72918-21-9	0.187	J	0.0356	5.40	1
11031	234678-HxCDF	60851-34-5	0.0415	JB	0.0277	5.40	1
11031	1234678-HpCDF	67562-39-4	0.178	JBQ	0.0160	5.40	1
11031	1234789-HpCDF	55673-89-7	0.0611	JBQ	0.0277	5.40	1
11031	OCDF	39001-02-0	0.152	JB	0.0507	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	97	23 - 140
13C12-OCDD	112	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	78	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-146-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA7-SB-9.0-10.0

LLI Sample # SW 6409771
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:46

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3609 SDG#: DX136-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-146-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-146-SA7-SB-9.0-10.0

LLI Sample # SW 6409771
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:46

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3609 SDG#: DX136-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11270002	09/29/2011 18:41	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11270002	09/27/2011 09:50	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403A	09/20/2011 19:11	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-007-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA7-SS-0.0-0.5

LLI Sample # SW 6409772
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 07:45

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3610 SDG#: DX136-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-007-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA7-SS-0.0-0.5

LLI Sample # SW 6409772
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 07:45

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3610 SDG#: DX136-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.341	J	0.108	1.00	1
11031	12378-PeCDD	40321-76-4	3.50	JB	0.145	5.02	1
11031	123478-HxCDD	39227-28-6	6.25	B	0.117	5.02	1
11031	123678-HxCDD	57653-85-7	15.7	B	0.112	5.02	1
11031	123789-HxCDD	19408-74-3	11.5	B	0.111	5.02	1
11031	1234678-HpCDD	35822-46-9	405	B	0.341	5.02	1
11031	OCDD	3268-87-9	4,270	EB	0.311	10.0	1
11031	2378-TCDF	51207-31-9	0.787	J	0.180	1.00	1
11031	12378-PeCDF	57117-41-6	3.85	JB	0.116	5.02	1
11031	23478-PeCDF	57117-31-4	2.25	JB	0.106	5.02	1
11031	123478-HxCDF	70648-26-9	3.40	JB	0.121	5.02	1
11031	123678-HxCDF	57117-44-9	2.14	JB	0.116	5.02	1
11031	123789-HxCDF	72918-21-9	0.900	J	0.136	5.02	1
11031	234678-HxCDF	60851-34-5	2.42	JB	0.119	5.02	1
11031	1234678-HpCDF	67562-39-4	45.0	B	0.103	5.02	1
11031	1234789-HpCDF	55673-89-7	2.40	JB	0.131	5.02	1
11031	OCDF	39001-02-0	96.6	B	0.110	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	79	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-007-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA7-SS-0.0-0.5

LLI Sample # SW 6409772
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 07:45

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3610 SDG#: DX136-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-007-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA7-SS-0.0-0.5

LLI Sample # SW 6409772
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 07:45

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3610 SDG#: DX136-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11270002	09/29/2011 19:38	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11270002	09/27/2011 09:50	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403A	09/20/2011 19:11	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-157-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-157-SA7-SS-0.0-0.5

LLI Sample # SW 6409773
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 09:25

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3611 SDG#: DX136-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.82	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-157-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-157-SA7-SS-0.0-0.5

LLI Sample # SW 6409773
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 09:25

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3611 SDG#: DX136-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.184	JQ	0.0509	0.986	1
11031	12378-PeCDD	40321-76-4	0.979	JB	0.0747	4.93	1
11031	123478-HxCDD	39227-28-6	1.60	JB	0.0589	4.93	1
11031	123678-HxCDD	57653-85-7	3.91	JB	0.0576	4.93	1
11031	123789-HxCDD	19408-74-3	3.02	JB	0.0528	4.93	1
11031	1234678-HpCDD	35822-46-9	99.8	B	0.112	4.93	1
11031	OCDD	3268-87-9	1,090	B	0.109	9.86	1
11031	2378-TCDF	51207-31-9	0.822	J	0.132	0.986	1
11031	12378-PeCDF	57117-41-6	2.03	JB	0.0733	4.93	1
11031	23478-PeCDF	57117-31-4	1.47	JB	0.0658	4.93	1
11031	123478-HxCDF	70648-26-9	1.08	JB	0.0555	4.93	1
11031	123678-HxCDF	57117-44-9	0.786	JB	0.0538	4.93	1
11031	123789-HxCDF	72918-21-9	0.0564	U	0.0564	4.93	1
11031	234678-HxCDF	60851-34-5	0.796	JB	0.0534	4.93	1
11031	1234678-HpCDF	67562-39-4	10.4	B	0.0413	4.93	1
11031	1234789-HpCDF	55673-89-7	0.630	JBQ	0.0508	4.93	1
11031	OCDF	39001-02-0	21.6	B	0.0464	9.86	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	92	28 - 130
13C12-1234678-HpCDD	98	23 - 140
13C12-OCDD	106	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	86	26 - 138
13C12-OCDF	95	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-157-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-157-SA7-SS-0.0-0.5

LLI Sample # SW 6409773
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 09:25

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3611 SDG#: DX136-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-157-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-157-SA7-SS-0.0-0.5

LLI Sample # SW 6409773
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 09:25

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3611 SDG#: DX136-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11270002	09/29/2011 20:34	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11270002	09/27/2011 09:50	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403B	09/20/2011 19:11	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-086-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-086-SA7-SS-0.0-0.5

LLI Sample # SW 6409774
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:10

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3612 SDG#: DX136-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-086-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-086-SA7-SS-0.0-0.5

LLI Sample # SW 6409774
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:10

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3612 SDG#: DX136-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.183	J	0.0763	0.997	1
11031	12378-PeCDD	40321-76-4	1.67	JB	0.0940	4.99	1
11031	123478-HxCDD	39227-28-6	3.06	JB	0.0766	4.99	1
11031	123678-HxCDD	57653-85-7	8.03	B	0.0755	4.99	1
11031	123789-HxCDD	19408-74-3	6.06	B	0.0678	4.99	1
11031	1234678-HpCDD	35822-46-9	209	B	0.150	4.99	1
11031	OCDD	3268-87-9	1,750	B	0.164	9.97	1
11031	2378-TCDF	51207-31-9	0.121	U	0.121	0.997	1
11031	12378-PeCDF	57117-41-6	1.84	JB	0.0780	4.99	1
11031	23478-PeCDF	57117-31-4	1.23	JB	0.0713	4.99	1
11031	123478-HxCDF	70648-26-9	1.68	JBQ	0.0792	4.99	1
11031	123678-HxCDF	57117-44-9	1.21	JB	0.0741	4.99	1
11031	123789-HxCDF	72918-21-9	0.250	J	0.0763	4.99	1
11031	234678-HxCDF	60851-34-5	1.53	JB	0.0722	4.99	1
11031	1234678-HpCDF	67562-39-4	28.8	B	0.0697	4.99	1
11031	1234789-HpCDF	55673-89-7	1.72	JB	0.0908	4.99	1
11031	OCDF	39001-02-0	74.1	B	0.0640	9.97	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	98	23 - 140
13C12-OCDD	109	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	81	26 - 138
13C12-OCDF	92	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-086-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-086-SA7-SS-0.0-0.5

LLI Sample # SW 6409774
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:10

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3612 SDG#: DX136-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-086-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-086-SA7-SS-0.0-0.5

LLI Sample # SW 6409774
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:10

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3612 SDG#: DX136-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11270002	09/29/2011 21:31	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11270002	09/27/2011 09:50	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403B	09/20/2011 19:11	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-087-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA7-SS-0.0-0.5

LLI Sample # SW 6409775
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:45

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3613 SDG#: DX136-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-087-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA7-SS-0.0-0.5

LLI Sample # SW 6409775
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:45

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3613 SDG#: DX136-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.228	JQ	0.0899	1.01	1
11031	12378-PeCDD	40321-76-4	1.33	JB	0.111	5.07	1
11031	123478-HxCDD	39227-28-6	1.97	JB	0.128	5.07	1
11031	123678-HxCDD	57653-85-7	6.82	B	0.120	5.07	1
11031	123789-HxCDD	19408-74-3	4.42	JB	0.107	5.07	1
11031	1234678-HpCDD	35822-46-9	175	B	0.225	5.07	1
11031	OCDD	3268-87-9	1,520	B	0.240	10.1	1
11031	2378-TCDF	51207-31-9	0.188	U	0.188	1.01	1
11031	12378-PeCDF	57117-41-6	1.30	JB	0.0976	5.07	1
11031	23478-PeCDF	57117-31-4	1.22	JB	0.0872	5.07	1
11031	123478-HxCDF	70648-26-9	1.17	JB	0.0930	5.07	1
11031	123678-HxCDF	57117-44-9	0.803	JB	0.0851	5.07	1
11031	123789-HxCDF	72918-21-9	0.183	J	0.0824	5.07	1
11031	234678-HxCDF	60851-34-5	1.10	JBQ	0.0769	5.07	1
11031	1234678-HpCDF	67562-39-4	26.6	B	0.0948	5.07	1
11031	1234789-HpCDF	55673-89-7	1.66	JB	0.108	5.07	1
11031	OCDF	39001-02-0	94.6	B	0.101	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	96	23 - 140
13C12-OCDD	106	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	86	26 - 138
13C12-OCDF	93	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-087-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA7-SS-0.0-0.5

LLI Sample # SW 6409775
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:45

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3613 SDG#: DX136-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-087-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-087-SA7-SS-0.0-0.5

LLI Sample # SW 6409775
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:45

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3613 SDG#: DX136-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11270002	09/29/2011 22:27	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11270002	09/27/2011 09:50	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403B	09/20/2011 19:11	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-026-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA7-SS-0.0-0.5

LLI Sample # SW 6409776
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 15:35

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3614 SDG#: DX136-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-026-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA7-SS-0.0-0.5

LLI Sample # SW 6409776
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 15:35

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3614 SDG#: DX136-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.128	J	0.0664	1.00	1
11031	12378-PeCDD	40321-76-4	0.335	JB	0.0635	5.01	1
11031	123478-HxCDD	39227-28-6	0.643	JB	0.0888	5.01	1
11031	123678-HxCDD	57653-85-7	2.44	JB	0.0843	5.01	1
11031	123789-HxCDD	19408-74-3	1.59	JB	0.0752	5.01	1
11031	1234678-HpCDD	35822-46-9	70.9	B	0.116	5.01	1
11031	OCDD	3268-87-9	678	B	0.112	10.0	1
11031	2378-TCDF	51207-31-9	0.466	J	0.138	1.00	1
11031	12378-PeCDF	57117-41-6	0.859	JB	0.0653	5.01	1
11031	23478-PeCDF	57117-31-4	0.819	JB	0.0608	5.01	1
11031	123478-HxCDF	70648-26-9	0.872	JB	0.0592	5.01	1
11031	123678-HxCDF	57117-44-9	0.461	JB	0.0568	5.01	1
11031	123789-HxCDF	72918-21-9	0.318	J	0.0643	5.01	1
11031	234678-HxCDF	60851-34-5	0.465	JB	0.0551	5.01	1
11031	1234678-HpCDF	67562-39-4	7.01	B	0.0516	5.01	1
11031	1234789-HpCDF	55673-89-7	0.494	JB	0.0662	5.01	1
11031	OCDF	39001-02-0	21.6	B	0.0589	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	98	23 - 140
13C12-OCDD	107	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	83	26 - 138
13C12-OCDF	89	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

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Analysis Report

Sample Description: **SL-026-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA7-SS-0.0-0.5

LLI Sample # SW 6409776
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 15:35

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3614 SDG#: DX136-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-026-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA7-SS-0.0-0.5

LLI Sample # SW 6409776
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/14/2011 15:35

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3614 SDG#: DX136-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11270002	09/29/2011 23:24	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11270002	09/27/2011 09:50	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403B	09/20/2011 19:11	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-008-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409777
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3615 SDG#: DX136-15BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.85	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-008-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409777
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3615 SDG#: DX136-15BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0767	U	0.0767	0.995	1
11031	12378-PeCDD	40321-76-4	0.355	JBQ	0.0626	4.97	1
11031	123478-HxCDD	39227-28-6	0.306	JBQ	0.0698	4.97	1
11031	123678-HxCDD	57653-85-7	0.882	JB	0.0691	4.97	1
11031	123789-HxCDD	19408-74-3	0.683	JB	0.0648	4.97	1
11031	1234678-HpCDD	35822-46-9	18.0	B	0.0843	4.97	1
11031	OCDD	3268-87-9	182	B	0.0778	9.95	1
11031	2378-TCDF	51207-31-9	0.112	U	0.112	0.995	1
11031	12378-PeCDF	57117-41-6	0.793	JB	0.0510	4.97	1
11031	23478-PeCDF	57117-31-4	0.230	JB	0.0520	4.97	1
11031	123478-HxCDF	70648-26-9	0.603	JB	0.0613	4.97	1
11031	123678-HxCDF	57117-44-9	0.308	JB	0.0546	4.97	1
11031	123789-HxCDF	72918-21-9	0.113	JQ	0.0680	4.97	1
11031	234678-HxCDF	60851-34-5	0.250	JB	0.0549	4.97	1
11031	1234678-HpCDF	67562-39-4	2.81	JB	0.0427	4.97	1
11031	1234789-HpCDF	55673-89-7	0.302	JB	0.0689	4.97	1
11031	OCDF	39001-02-0	4.92	JB	0.0650	9.95	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	99	23 - 140
13C12-OCDD	112	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	101	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	81	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-008-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409777
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3615 SDG#: DX136-15BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-008-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409777
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3615 SDG#: DX136-15BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11270002	09/30/2011 00:21	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11270002	09/27/2011 09:50	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403B	09/20/2011 19:11	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-008-SA7-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409778
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3615 SDG#: DX136-15MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.85	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-008-SA7-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409778
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3615 SDG#: DX136-15MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	19.8		0.105	0.987	1
11031	12378-PeCDD	40321-76-4	100	B	0.0981	4.93	1
11031	123478-HxCDD	39227-28-6	98.5	B	0.101	4.93	1
11031	123678-HxCDD	57653-85-7	97.9	B	0.0989	4.93	1
11031	123789-HxCDD	19408-74-3	98.3	B	0.0898	4.93	1
11031	1234678-HpCDD	35822-46-9	123	B	0.0969	4.93	1
11031	OCDD	3268-87-9	521	B	0.0892	9.87	1
11031	2378-TCDF	51207-31-9	18.9		0.0806	0.987	1
11031	12378-PeCDF	57117-41-6	97.1	B	0.0527	4.93	1
11031	23478-PeCDF	57117-31-4	94.0	B	0.0470	4.93	1
11031	123478-HxCDF	70648-26-9	93.4	B	0.0886	4.93	1
11031	123678-HxCDF	57117-44-9	93.7	B	0.0857	4.93	1
11031	123789-HxCDF	72918-21-9	95.1		0.0884	4.93	1
11031	234678-HxCDF	60851-34-5	93.4	B	0.0823	4.93	1
11031	1234678-HpCDF	67562-39-4	96.2	B	0.0799	4.93	1
11031	1234789-HpCDF	55673-89-7	94.8	B	0.0956	4.93	1
11031	OCDF	39001-02-0	194	B	0.0674	9.87	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	94	28 - 130
13C12-1234678-HpCDD	103	23 - 140
13C12-OCDD	114	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	89	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	95	26 - 138
13C12-OCDF	102	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-008-SA7-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409778
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3615 SDG#: DX136-15MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-008-SA7-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409778
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3615 SDG#: DX136-15MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11270002	09/30/2011 01:17	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11270002	09/27/2011 09:50	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403B	09/20/2011 19:11	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-008-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409779
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3615 SDG#: DX136-15MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.85	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-008-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409779
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3615 SDG#: DX136-15MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	20.1		0.0862	1.01	1
11031	12378-PeCDD	40321-76-4	104	B	0.0850	5.04	1
11031	123478-HxCDD	39227-28-6	101	B	0.0842	5.04	1
11031	123678-HxCDD	57653-85-7	101	B	0.0802	5.04	1
11031	123789-HxCDD	19408-74-3	99.2	B	0.0741	5.04	1
11031	1234678-HpCDD	35822-46-9	122	B	0.0941	5.04	1
11031	OCDD	3268-87-9	446	B	0.0863	10.1	1
11031	2378-TCDF	51207-31-9	19.2		0.109	1.01	1
11031	12378-PeCDF	57117-41-6	99.2	B	0.0669	5.04	1
11031	23478-PeCDF	57117-31-4	95.6	B	0.0618	5.04	1
11031	123478-HxCDF	70648-26-9	97.3	B	0.0999	5.04	1
11031	123678-HxCDF	57117-44-9	95.9	B	0.0881	5.04	1
11031	123789-HxCDF	72918-21-9	96.6		0.0988	5.04	1
11031	234678-HxCDF	60851-34-5	98.7	B	0.0897	5.04	1
11031	1234678-HpCDF	67562-39-4	97.9	B	0.0639	5.04	1
11031	1234789-HpCDF	55673-89-7	96.0	B	0.0806	5.04	1
11031	OCDF	39001-02-0	199	B	0.0786	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	101	23 - 140
13C12-OCDD	111	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	89	26 - 138
13C12-OCDF	91	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-008-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409779
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3615 SDG#: DX136-15MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-008-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SS-0.0-0.5

LLI Sample # SW 6409779
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3615 SDG#: DX136-15MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11270002	09/30/2011 02:14	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11270002	09/27/2011 09:50	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403B	09/20/2011 19:11	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-045-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-045-SA7-SS-0.0-0.5

LLI Sample # SW 6409780
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 14:30

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3616 SDG#: DX136-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-045-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-045-SA7-SS-0.0-0.5

LLI Sample # SW 6409780
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 14:30

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3616 SDG#: DX136-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0628	U	0.0628	0.992	1
11031	12378-PeCDD	40321-76-4	1.11	JB	0.0779	4.96	1
11031	123478-HxCDD	39227-28-6	2.22	JB	0.0691	4.96	1
11031	123678-HxCDD	57653-85-7	7.14	B	0.0740	4.96	1
11031	123789-HxCDD	19408-74-3	3.98	JB	0.0679	4.96	1
11031	1234678-HpCDD	35822-46-9	206	B	0.163	4.96	1
11031	OCDD	3268-87-9	2,870	B	0.225	9.92	1
11031	2378-TCDF	51207-31-9	0.730	J	0.159	0.992	1
11031	12378-PeCDF	57117-41-6	2.36	JB	0.0824	4.96	1
11031	23478-PeCDF	57117-31-4	2.07	JB	0.0769	4.96	1
11031	123478-HxCDF	70648-26-9	2.70	JB	0.0680	4.96	1
11031	123678-HxCDF	57117-44-9	1.17	JB	0.0657	4.96	1
11031	123789-HxCDF	72918-21-9	0.667	J	0.0682	4.96	1
11031	234678-HxCDF	60851-34-5	1.32	JB	0.0631	4.96	1
11031	1234678-HpCDF	67562-39-4	19.0	B	0.0498	4.96	1
11031	1234789-HpCDF	55673-89-7	1.02	JB	0.0591	4.96	1
11031	OCDF	39001-02-0	30.4	B	0.0466	9.92	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	101	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	87	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-045-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-045-SA7-SS-0.0-0.5

LLI Sample # SW 6409780
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 14:30

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3616 SDG#: DX136-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-045-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-045-SA7-SS-0.0-0.5

LLI Sample # SW 6409780
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 14:30

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3616 SDG#: DX136-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11270002	09/30/2011 08:06	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11270002	09/27/2011 09:50	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11272162401B	09/29/2011 21:46	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-090-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-090-SA7-SS-0.0-0.5

LLI Sample # SW 6409781
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 15:25

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3617 SDG#: DX136-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-090-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-090-SA7-SS-0.0-0.5

LLI Sample # SW 6409781
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 15:25

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3617 SDG#: DX136-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.382	J	0.0817	1.01	1
11031	12378-PeCDD	40321-76-4	3.03	JB	0.115	5.07	1
11031	123478-HxCDD	39227-28-6	5.61	B	0.0882	5.07	1
11031	123678-HxCDD	57653-85-7	13.9	B	0.0863	5.07	1
11031	123789-HxCDD	19408-74-3	10.6	B	0.0823	5.07	1
11031	1234678-HpCDD	35822-46-9	343	B	0.225	5.07	1
11031	OCDD	3268-87-9	3,400	B	0.215	10.1	1
11650	2378-TCDF-Conf	51207-31-9	0.961	JC	0.105	1.01	1
11031	12378-PeCDF	57117-41-6	3.24	JB	0.119	5.07	1
11031	23478-PeCDF	57117-31-4	3.44	JB	0.101	5.07	1
11031	123478-HxCDF	70648-26-9	3.26	JB	0.0885	5.07	1
11031	123678-HxCDF	57117-44-9	2.01	JB	0.0888	5.07	1
11031	123789-HxCDF	72918-21-9	0.831	J	0.0901	5.07	1
11031	234678-HxCDF	60851-34-5	2.46	JB	0.0899	5.07	1
11031	1234678-HpCDF	67562-39-4	43.5	B	0.0766	5.07	1
11031	1234789-HpCDF	55673-89-7	2.37	JB	0.0926	5.07	1
11031	OCDF	39001-02-0	81.7	B	0.0614	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-2378-TCDF-Conf	66	24 - 169
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	96	23 - 140
13C12-OCDD	105	17 - 157
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	84	26 - 138
13C12-OCDF	91	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-090-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-090-SA7-SS-0.0-0.5

LLI Sample # SW 6409781
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 15:25

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3617 SDG#: DX136-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-090-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-090-SA7-SS-0.0-0.5

LLI Sample # SW 6409781
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 15:25

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3617 SDG#: DX136-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11270002	09/30/2011 09:03	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11270002	10/03/2011 11:53	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11270002	09/27/2011 09:50	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403B	09/20/2011 19:11	Scott W Freisher	1

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Analysis Report

Sample Description: **DUP01-SA7-QC-091511 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA7-QC-091511

LLI Sample # SW 6409782
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3618 SDG#: DX136-18FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.80	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP01-SA7-QC-091511 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA7-QC-091511

LLI Sample # SW 6409782
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3618 SDG#: DX136-18FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0651	U	0.0651	0.963	1
11031	12378-PeCDD	40321-76-4	0.549	JB	0.0721	4.81	1
11031	123478-HxCDD	39227-28-6	1.84	JB	0.0777	4.81	1
11031	123678-HxCDD	57653-85-7	6.04	B	0.0758	4.81	1
11031	123789-HxCDD	19408-74-3	1.85	JB	0.0752	4.81	1
11031	1234678-HpCDD	35822-46-9	77.9	B	0.109	4.81	1
11031	OCDD	3268-87-9	502	B	0.111	9.63	1
11031	2378-TCDF	51207-31-9	0.258	J	0.0997	0.963	1
11031	12378-PeCDF	57117-41-6	0.859	JB	0.0539	4.81	1
11031	23478-PeCDF	57117-31-4	0.524	JB	0.0503	4.81	1
11031	123478-HxCDF	70648-26-9	1.34	JB	0.0653	4.81	1
11031	123678-HxCDF	57117-44-9	1.04	JBQ	0.0622	4.81	1
11031	123789-HxCDF	72918-21-9	0.360	J	0.0694	4.81	1
11031	234678-HxCDF	60851-34-5	1.75	JB	0.0626	4.81	1
11031	1234678-HpCDF	67562-39-4	34.9	B	0.0619	4.81	1
11031	1234789-HpCDF	55673-89-7	1.77	JB	0.0893	4.81	1
11031	OCDF	39001-02-0	37.5	B	0.0649	9.63	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	90	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	95	23 - 140
13C12-OCDD	107	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	88	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: DUP01-SA7-QC-091511 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA7-QC-091511

LLI Sample # SW 6409782
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3618 SDG#: DX136-18FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **DUP01-SA7-QC-091511 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA7-QC-091511

LLI Sample # SW 6409782
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/15/2011 13:55

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3618 SDG#: DX136-18FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11270002	09/30/2011 09:59	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11270002	09/27/2011 09:50	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403B	09/20/2011 19:11	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-179-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-179-SA7-SS-0.0-0.5

LLI Sample # SW 6409783
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 15:10

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3619 SDG#: DX136-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-179-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-179-SA7-SS-0.0-0.5

LLI Sample # SW 6409783
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 15:10

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3619 SDG#: DX136-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.159	JQ	0.0738	1.01	1
11031	12378-PeCDD	40321-76-4	0.508	JB	0.114	5.05	1
11031	123478-HxCDD	39227-28-6	1.05	JB	0.114	5.05	1
11031	123678-HxCDD	57653-85-7	3.63	JB	0.106	5.05	1
11031	123789-HxCDD	19408-74-3	1.69	JB	0.0993	5.05	1
11031	1234678-HpCDD	35822-46-9	96.4	B	0.134	5.05	1
11031	OCDD	3268-87-9	1,080	B	0.127	10.1	1
11650	2378-TCDF-Conf	51207-31-9	0.620	JC	0.123	1.01	1
11031	12378-PeCDF	57117-41-6	8.09	B	0.125	5.05	1
11031	23478-PeCDF	57117-31-4	1.95	JB	0.128	5.05	1
11031	123478-HxCDF	70648-26-9	17.8	B	0.0974	5.05	1
11031	123678-HxCDF	57117-44-9	2.49	JB	0.0820	5.05	1
11031	123789-HxCDF	72918-21-9	0.463	JQ	0.105	5.05	1
11031	234678-HxCDF	60851-34-5	1.04	JB	0.0863	5.05	1
11031	1234678-HpCDF	67562-39-4	14.3	B	0.0462	5.05	1
11031	1234789-HpCDF	55673-89-7	1.17	JB	0.0840	5.05	1
11031	OCDF	39001-02-0	39.7	B	0.0632	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-2378-TCDF-Conf	56	24 - 169
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	93	23 - 140
13C12-OCDD	106	17 - 157
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	73	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-179-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-179-SA7-SS-0.0-0.5

LLI Sample # SW 6409783
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 15:10

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3619 SDG#: DX136-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-179-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-179-SA7-SS-0.0-0.5

LLI Sample # SW 6409783
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 15:10

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3619 SDG#: DX136-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11270002	09/30/2011 10:56	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11270002	10/03/2011 12:59	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11270002	09/27/2011 09:50	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403B	09/20/2011 19:11	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-098-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-098-SA7-SS-0.0-0.5

LLI Sample # SW 6409784
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 15:25

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3620 SDG#: DX136-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.82	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-098-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-098-SA7-SS-0.0-0.5

LLI Sample # SW 6409784
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 15:25

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3620 SDG#: DX136-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0955	U	0.0955	0.965	1
11031	12378-PeCDD	40321-76-4	0.407	JB	0.0872	4.82	1
11031	123478-HxCDD	39227-28-6	0.642	JB	0.115	4.82	1
11031	123678-HxCDD	57653-85-7	2.61	JB	0.108	4.82	1
11031	123789-HxCDD	19408-74-3	1.37	JBQ	0.106	4.82	1
11031	1234678-HpCDD	35822-46-9	67.3	B	0.168	4.82	1
11031	OCDD	3268-87-9	803	B	0.147	9.65	1
11031	2378-TCDF	51207-31-9	0.236	J	0.158	0.965	1
11031	12378-PeCDF	57117-41-6	0.722	JB	0.0938	4.82	1
11031	23478-PeCDF	57117-31-4	0.943	JB	0.0920	4.82	1
11031	123478-HxCDF	70648-26-9	1.20	JB	0.0908	4.82	1
11031	123678-HxCDF	57117-44-9	0.797	JB	0.0866	4.82	1
11031	123789-HxCDF	72918-21-9	0.396	JQ	0.0944	4.82	1
11031	234678-HxCDF	60851-34-5	0.864	JB	0.0852	4.82	1
11031	1234678-HpCDF	67562-39-4	10.3	B	0.0668	4.82	1
11031	1234789-HpCDF	55673-89-7	0.979	JB	0.0985	4.82	1
11031	OCDF	39001-02-0	20.7	B	0.0751	9.65	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	91	28 - 130
13C12-123789-HxCDD	92	28 - 130
13C12-1234678-HpCDD	102	23 - 140
13C12-OCDD	114	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	81	26 - 138
13C12-OCDF	92	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-098-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-098-SA7-SS-0.0-0.5

LLI Sample # SW 6409784
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 15:25

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3620 SDG#: DX136-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-098-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-098-SA7-SS-0.0-0.5

LLI Sample # SW 6409784
LLI Group # 1266998
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 15:25

Submitted: 09/17/2011 09:15
Reported: 10/20/2011 12:48

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3620 SDG#: DX136-20*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11270002	09/30/2011 11:52	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11270002	09/27/2011 09:50	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11263162403B	09/20/2011 19:11	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266998
Reported: 10/20/11 at 12:48 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11263162403A	Sample number(s): 6409763-6409772								
Moisture Content by 160.3					100		80-120		
Batch number: 11263162403B	Sample number(s): 6409773-6409779,6409781-6409784								
Moisture Content by 160.3					100		80-120		
Batch number: 11272162401B	Sample number(s): 6409780								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11270002	Sample number(s): 6409763-6409784								
2378-TCDD	0.0499 U	0.0499	1.00	ng/kg	103		67-158		
12378-PeCDD	0.0549 J	0.0431	5.00	ng/kg	102		70-142		
123478-HxCDD	0.0279 J	0.0269	5.00	ng/kg	104		70-164		
123678-HxCDD	0.0306 J	0.0287	5.00	ng/kg	101		76-134		
123789-HxCDD	0.0442 J	0.0277	5.00	ng/kg	102		64-162		
1234678-HpCDD	0.205 J	0.0341	5.00	ng/kg	103		70-140		
OCDD	0.480 J	0.0314	10.0	ng/kg	99		78-144		
2378-TCDF	0.0470 U	0.0470	1.00	ng/kg	103		75-158		
2378-TCDF-Conf	0.0744 J	0.0520	1.00	ng/kg	103		75-158		
12378-PeCDF	0.0269 J	0.0220	5.00	ng/kg	102		80-134		
23478-PeCDF	0.0512 J	0.0218	5.00	ng/kg	99		68-160		
123478-HxCDF	0.0569 J	0.0225	5.00	ng/kg	100		72-134		
123678-HxCDF	0.0769 J	0.0198	5.00	ng/kg	99		84-130		
123789-HxCDF	0.0245 U	0.0245	5.00	ng/kg	101		78-130		
234678-HxCDF	0.0742 J	0.0200	5.00	ng/kg	102		70-156		
1234678-HpCDF	0.242 J	0.0150	5.00	ng/kg	98		82-122		
1234789-HpCDF	0.0985 J	0.0247	5.00	ng/kg	101		78-138		
OCDF	0.303 J	0.0424	10.0	ng/kg	100		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11263162403A	Sample number(s): 6409763-6409772					BKG: P409743			
Moisture Content by 160.3						8.1	8.1	1	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266998
Reported: 10/20/11 at 12:48 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11263162403B	Sample number(s): 6409773-6409779,6409781-6409784					BKG: P409752			
Moisture Content by 160.3						0.85	0.81	6 (1)	20
Batch number: 11272162401B	Sample number(s): 6409780					BKG: P412126			
Moisture Content by 160.3						6.6	7.0	5	20
Batch number: 11270002	Sample number(s): 6409763-6409784 UNSPK: 6409777								
2378-TCDD	100	100	67-158	2	25				
12378-PeCDD	101	103	70-142	4	25				
123478-HxCDD	99	100	70-164	3	25				
123678-HxCDD	98	99	76-134	3	25				
123789-HxCDD	99	98	64-162	1	25				
1234678-HpCDD	107	103	70-140	1	25				
OCDD	172*	131	78-144	16	25				
2378-TCDF	96	95	75-158	2	25				
2378-TCDF-Conf	96	95	75-158	2	25				
12378-PeCDF	98	98	80-134	2	25				
23478-PeCDF	95	95	68-160	2	25				
123478-HxCDF	94	96	72-134	4	25				
123678-HxCDF	95	95	84-130	2	25				
123789-HxCDF	96	96	78-130	2	25				
234678-HxCDF	94	98	70-156	5	25				
1234678-HpCDF	95	94	82-122	2	25				
1234789-HpCDF	96	95	78-138	1	25				
OCDF	96	96	63-170	3	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11270002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6409763	62	64	62	69	68	67
6409764	67	69	66	74	71	70
6409765	66	69	65	77	70	69
6409766	60	65	62	70	68	64
6409767	62	62	55	67	61	59
6409768	64	68	63	72	67	62
6409769	71	53	51	58	53	54
6409770	64	59	58	66	61	56
6409771	65	64	60	71	65	60
6409772	68	67	64	67	66	71
6409773	77	81	68	71	72	81
6409774	75	83	68	71	70	78
6409775	76	81	64	69	72	81
6409776	76	82	69	71	71	75
6409777	72	80	65	72	68	68

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266998
Reported: 10/20/11 at 12:48 PM

Surrogate Quality Control

6409778	80	89	74	76	77	84
6409779	74	81	68	75	71	76
6409780	78	80	70	71	70	78
6409781	80	85	69	71	72	82
6409782	74	78	68	74	73	77
6409783	69	68	61	71	64	63
6409784	77	77	68	74	71	77
Blank	77	78	75	83	79	76
MS	80	89	74	76	77	84
MSD	74	81	68	75	71	76
OPR	70	67	61	71	65	60
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6409763	90	77	85	66	73	78
6409764	95	75	83	72	79	82
6409765	112	77	88	76	82	87
6409766	94	70	78	68	74	76
6409767	97	64	73	68	70	75
6409768	98	70	80	74	75	77
6409769	76	55	62	69	77	80
6409770	91	59	64	66	77	75
6409771	98	69	78	73	77	83
6409772	73	72	79	71	73	83
6409773	84	86	95	84	78	87
6409774	88	81	92	89	80	86
6409775	81	86	93	86	81	88
6409776	88	83	89	87	80	85
6409777	101	75	81	89	81	86
6409778	88	95	102	92	87	89
6409779	94	89	91	86	83	88
6409780	82	80	87	85	81	81
6409781	82	84	91	87	78	86
6409782	92	78	88	81	80	90
6409783	97	67	73	76	78	85
6409784	98	81	92	84	83	91
Blank	109	85	95	85	92	92
MS	88	95	102	92	87	89
MSD	94	89	91	86	83	88
OPR	92	65	70	75	76	79
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6409763	77	89	104	61	68	
6409764	83	91	103	65	73	
6409765	87	102	120	61	76	
6409766	76	87	101	61	69	
6409767	75	89	103	58	70	
6409768	77	92	107	62	76	
6409769	77	93	98	59	60	
6409770	76	87	98	58	67	
6409771	82	97	112	60	70	
6409772	81	82	92	67	68	
6409773	92	98	106	76	80	

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1266998
Reported: 10/20/11 at 12:48 PM

Surrogate Quality Control

6409774	88	98	109	73	84	
6409775	89	96	106	75	80	
6409776	89	98	107	72	85	
6409777	91	99	112	69	90	
6409778	94	103	114	79	89	
6409779	91	101	111	72	83	
6409780	81	91	101	75	81	
6409781	89	96	105		82	66
6409782	91	95	107	73	82	
6409783	86	93	106		78	56
6409784	92	102	114	74	83	
Blank	92	107	121	72	85	64
MS	94	103	114	79	89	79
MSD	91	101	111	72	83	72
OPR	78	85	94	64	73	64
Limits:	28-130	23-140	17-157	24-169	24-185	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Ap#1266998 Sample#6409763-84

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil for 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers
SL-034-SA7-SB-4.0-5.0	9/16/11	1100	SOIL	None	2 16oz Jars
SL-034-SA7-SB-9.0-10.0		1110			
SL-035-SA7-SB-4.0-5.0		0940			
SL-035-SA7-SB-9.0-10.0		0944			
SL-079-SA7-SB-2.0-3.0		0826			
SL-080-SA7-SB-4.0-5.0		1215			
SL-080-SA7-SB-9.0-10.0		1218			
SL-146-SA7-SB-4.0-5.0		1443			
SL-146-SA7-SB-9.0-10.0		1446			

	PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199*	*pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-034-SA7-SB-4.0-5.0	X	X	X	X	X	X	X	X	X													
SL-034-SA7-SB-9.0-10.0	X	X	X	X	X	X	X	X	X													
SL-035-SA7-SB-4.0-5.0	X	X	X	X	X	X	X	X	X													
SL-035-SA7-SB-9.0-10.0	X	X	X	X	X	X	X	X	X													
SL-079-SA7-SB-2.0-3.0	X	X	X	X	X	X	X	X	X													
SL-080-SA7-SB-4.0-5.0	X	X	X	X	X	X	X	X	X													
SL-080-SA7-SB-9.0-10.0	X	X	X	X	X	X	X	X	X													
SL-146-SA7-SB-4.0-5.0	X	X	X	X	X	X	X	X	X													
SL-146-SA7-SB-9.0-10.0	X	X	X	X	X	X	X	X	X													

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)		Laboratory:
			9/17/11 0915	Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**		
		8754 3341 ~~8754 3341~~		

5897 PH 9/16/11

acct#13013 Cap#1266998 sample#6409763-84

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	*pH EPA 9045C	Perchlorate Confirmation by EPA 8650 (10%)	VOCs: VOCs/EPA 8260B $ (Pesticides, Herbicides)	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-002-SA7-SS-0.0-0.5	9/16/11	0745	Soil	None	1 SS Jar w/ 2 Jars																						
SL-157-SA7SS-0.0-0.5		0925																									
SL-086-SA7-SS-0.0-0.5		0810																									
SL-057-SA7-SS-0.0-0.5		0845																									

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)		Laboratory:
	9/16/11 1600		9/17/11 0915	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)		
		8754 3341 5864		

acct# 13013 Qp# 1266998 Sample# 6409763-84

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil for 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199*	*pH EPA 9045C	*Perchlorate Confirmation by EPA 6850 (10%)	VOCs EPA 8260B$	1,4-Dioxane EPA 8260SIM$	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-026-SA7-SS-0.0-0.5	9/14/11	1535	Soil	None	1 sleeve + 1 Jar	X	X	X	X	X	X	X	X	X	X	X							X	X	X	X	no perchlorate
SL-008-SA7-SS-0.0-0.5	9/15/11	1355			2 sleeves + 4 Jars	X	X	X	X	X	X	X	X		X	X		X					X	X	X	X	MS/MSD
SL-045-SA7-SS-0.0-0.5	9/15/11	M30			1 sleeve + 2 Jar	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	
SL-090-SA7-SS-0.0-0.5	9/15/11	1525			3 Jars	X	X	X	X	X	X	X	X		X	X		X					X	X	X	X	unable to collect sleeve
DUP01-SA7-QC-09151	9/15/11	1355			1 sleeve + 2 Jars	X	X	X	X	X	X	X	X		X	X		X					X	X	X	X	
SL-179-SA7-SS-0.0-0.5	9/16/11	1510			" "	X	X	X	X	X	X	X	X		X	X		X					X	X	X	X	
SL-018-SA7-SS-0.0-0.5	9/16/11	1525			" "	X	X	X	X	X	X	X	X		X	X		X					X	X	X	X	

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	
	9/16/11 1600		9/17/11 0845
Received by: (Signature)	Date/Time	Airbill No.(s)	
		875433415875	

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 10, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/17/2011
Group Number: 1267000
SDG: DE246
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-009-SA7-SS-0.0-0.5 Soil	6409790
SL-017-SA7-SS-0.0-0.5 Soil	6409791
SL-052-SA7-SS-0.0-0.5 Soil	6409792
SL-053-SA7-SS-0.0-0.5 Soil	6409793
SL-083-SA7-SS-0.0-0.5 Soil	6409794
SL-165-SA7-SS-0.0-0.5 Soil	6409795
SL-022-SA7-SS-0.0-0.5 Soil	6409796
SL-054-SA7-SS-0.0-0.5 Soil	6409797
SL-100-SA7-SS-0.0-0.5 Soil	6409798
SL-184-SA7-SS-0.0-0.5 Soil	6409800

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Dorothy M. Love

Dorothy M. Love
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-009-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA7-SS-0.0-0.5

LLI Sample # SW 6409790
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 10:10

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4601 SDG#: DE246-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	840	U	840	2,500		5
04688	Benzidine	92-87-5	5,900	U	5,900	17,000		5
04688	Benzo(g,h,i)perylene	191-24-2	600	J	84	840		5
04688	Benzoic acid	65-85-0	840	U	840	2,500		5
04688	Benzyl alcohol	100-51-6	840	U	840	2,500		5
04688	4-Bromophenyl-phenylether	101-55-3	84	U	84	840		5
04688	Carbazole	86-74-8	220	J	84	840		5
04688	4-Chloro-3-methylphenol	59-50-7	170	U	170	840		5
04688	4-Chloroaniline	106-47-8	330	U	330	840		5
04688	bis(2-Chloroethoxy)methane	111-91-1	84	U	84	840		5
04688	bis(2-Chloroethyl)ether	111-44-4	84	U	84	840		5
04688	bis(2-Chloroisopropyl)ether	39638-32-9	84	U	84	840		5
04688	2-Chloronaphthalene	91-58-7	84	U	84	840		5
04688	2-Chlorophenol	95-57-8	84	U	84	840		5
04688	4-Chlorophenyl-phenylether	7005-72-3	170	U	170	840		5
04688	Dibenz(a,h)anthracene	53-70-3	170	J	84	840		5
04688	Dibenzofuran	132-64-9	84	U	84	840		5
04688	1,2-Dichlorobenzene	95-50-1	84	U	84	840		5
04688	1,3-Dichlorobenzene	541-73-1	84	U	84	840		5
04688	1,4-Dichlorobenzene	106-46-7	84	U	84	840		5
04688	3,3'-Dichlorobenzidine	91-94-1	500	U	500	1,700		5
04688	2,4-Dichlorophenol	120-83-2	84	U	84	840		5
04688	2,4-Dimethylphenol	105-67-9	170	U	170	840		5
04688	3,5-Dimethylphenol	108-68-9	170	U	170	840		5
04688	4,6-Dinitro-2-methylphenol	534-52-1	840	U	840	2,500		5
04688	2,4-Dinitrophenol	51-28-5	1,700	U	1,700	5,000		5
04688	2,4-Dinitrotoluene	121-14-2	170	U	170	840		5
04688	2,6-Dinitrotoluene	606-20-2	84	U	84	840		5
04688	1,2-Diphenylhydrazine	122-66-7	84	U	84	840		5
04688	Hexachlorobenzene	118-74-1	84	U	84	840		5
04688	Hexachlorobutadiene	87-68-3	330	U	330	840		5
04688	Hexachlorocyclopentadiene	77-47-4	840	U	840	2,500		5
04688	Hexachloroethane	67-72-1	84	U	84	840		5
04688	Indeno(1,2,3-cd)pyrene	193-39-5	560	J	84	840		5
04688	Isophorone	78-59-1	84	U	84	840		5
04688	2-Methylphenol	95-48-7	170	U	170	840		5
04688	4-Methylphenol	106-44-5	170	U	170	840		5
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	84	U	84	840		5
04688	3-Nitroaniline	99-09-2	170	U	170	840		5
04688	4-Nitroaniline	100-01-6	330	U	330	840		5
04688	Nitrobenzene	98-95-3	84	U	84	840		5
04688	2-Nitrophenol	88-75-5	84	U	84	840		5
04688	4-Nitrophenol	100-02-7	840	U	840	2,500		5
04688	N-Nitroso-di-n-propylamine	621-64-7	84	U	84	840		5
04688	N-Nitrosodiphenylamine	86-30-6	84	U	84	840		5

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-009-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA7-SS-0.0-0.5

LLI Sample # SW 6409790
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 10:10

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4601 SDG#: DE246-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	840	U	840	2,500		5
04688	Phenol	108-95-2	84	U	84	840		5
04688	Tetralin	119-64-2	840	U	840	840		5
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	84	U	84	840		5
04688	2,4,5-Trichlorophenol	95-95-4	170	U	170	840		5
04688	2,4,6-Trichlorophenol	88-06-2	170	U	170	840		5
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	73		6.7	17		10
10138	Acenaphthylene	208-96-8	7.6	J	3.4	17		10
10138	Anthracene	120-12-7	180		3.4	17		10
10138	Benzo(a)anthracene	56-55-3	970		6.7	17		10
10138	Benzo(a)pyrene	50-32-8	950		6.7	17		10
10138	Benzo(b)fluoranthene	205-99-2	1,700		6.7	17		10
10138	Benzo(k)fluoranthene	207-08-9	810		6.7	17		10
10138	Butylbenzylphthalate	85-68-7	60	U	60	180		10
10138	Di-n-butylphthalate	84-74-2	60	U	60	180		10
10138	Chrysene	218-01-9	1,300		3.4	17		10
10138	Diethylphthalate	84-66-2	60	U	60	180		10
10138	Dimethylphthalate	131-11-3	60	U	60	180		10
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	60	U	60	180		10
10138	Fluoranthene	206-44-0	2,700		6.7	17		10
10138	Fluorene	86-73-7	63		6.7	17		10
10138	1-Methylnaphthalene	90-12-0	8.4	J	6.7	17		10
10138	2-Methylnaphthalene	91-57-6	6.7	U	6.7	17		10
10138	Naphthalene	91-20-3	9.6	J	6.7	17		10
10138	N-Nitrosodimethylamine	62-75-9	6.7	U	6.7	17		10
10138	Di-n-octylphthalate	117-84-0	60	U	60	180		10
10138	Phenanthrene	85-01-8	1,500		6.7	17		10
10138	Pyrene	129-00-0	2,300		6.7	17		10
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	2.4	U	2.4	2.4		1

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Sample Description: SL-009-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA7-SS-0.0-0.5

LLI Sample # SW 6409790
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 10:10

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4601 SDG#: DE246-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1
10401	MCPA	94-74-6	590	U	590	590		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.33		0.082	0.17		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.33	U	0.33	0.84		5
01363	Alpha BHC	319-84-6	0.17	U	0.17	0.84		5
01363	Beta BHC	319-85-7	0.30	U	0.30	0.84		5
01363	Gamma BHC - Lindane	58-89-9	0.17	U	0.17	0.84		5
01363	Chlordane	57-74-9	11	J	4.0	17		5
01363	p,p-DDD	72-54-8	1.6	U	1.6	1.7		5
01363	p,p-DDE	72-55-9	0.63	U	0.63	1.7		5
01363	p,p-DDT	50-29-3	10		0.33	1.7		5
01363	Delta BHC	319-86-8	0.18	U	0.18	0.84		5
01363	Dieldrin	60-57-1	1.9	U	1.9	1.9		5
01363	Endosulfan I	959-98-8	0.22	U	0.22	0.84		5
01363	Endosulfan II	33213-65-9	0.84	U	0.84	1.7		5
01363	Endosulfan Sulfate	1031-07-8	0.33	U	0.33	1.7		5
01363	Endrin	72-20-8	0.46	U	0.46	1.7		5
01363	Endrin Aldehyde	7421-93-4	1.2	U	1.2	1.7		5
01363	Endrin Ketone	53494-70-5	0.33	U	0.33	1.7		5
01363	Heptachlor	76-44-8	0.30	U	0.30	0.84		5
01363	Heptachlor Epoxide	1024-57-3	0.34	U	0.34	0.84		5
01363	Methoxychlor	72-43-5	1.7	U	1.7	8.4		5
01363	Mirex	2385-85-5	1.6	U	1.6	1.7		5
01363	Toxaphene	8001-35-2	96	U	96	96		5

Maintenance and a new calibration was performed prior to the analysis of the samples. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	5.0	U	5.0	17		5
10225	Aroclor 5442	12642-23-8	5.0	U	5.0	17		5
10225	Aroclor 5460	11126-42-4	5.0	U	5.0	17		5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.6		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.6		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.6		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.6		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.6		5
10225	PCB-1254	11097-69-1	22		1.7	8.6		5

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Sample Description: **SL-009-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA7-SS-0.0-0.5

LLI Sample # SW 6409790
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 10:10

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4601 SDG#: DE246-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	24		2.0	8.6		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.6		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.6		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	100	U	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	8.1	U	8.1	24		20
10199	EFH (C15-C20)	n.a.	9.6	J	8.1	24		20
10199	EFH (C21-C30)	n.a.	170		8.1	24		20
10199	EFH (C30 - C40)	n.a.	510		8.1	24		20
10199	EFH (C8-C11)	n.a.	8.1	U	8.1	24		20
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	9,740		5.92	19.6		1
07914	Boron	7440-42-8	0.352	U	0.352	4.89		1
01650	Calcium	7440-70-2	2,290		2.45	19.6		1
01654	Iron	7439-89-6	17,300		2.55	19.6		1
01656	Lithium	7439-93-2	19.0		0.61	2.0		1
01657	Magnesium	7439-95-4	3,380		0.431	9.79		1
06958	Manganese	7439-96-5	368		0.0352	0.489		1
10145	Phosphorus	7723-14-0	441		0.343	9.79		1
01662	Potassium	7440-09-7	3,250		11.1	48.9		1
01667	Sodium	7440-23-5	88.6	J	5.82	97.9		1
07968	Strontium	7440-24-6	14.7		0.0245	0.489		1
06969	Tin	7440-31-5	3.20	J	0.313	9.79		1
06970	Titanium	7440-32-6	1,070		0.0695	0.979		1
10146	Zirconium	7440-67-7	1.13	J	0.450	4.89		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.428		0.0731	0.198		2

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Sample Description: **SL-009-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA7-SS-0.0-0.5

LLI Sample # SW 6409790
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 10:10

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4601 SDG#: DE246-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.08		0.0791	0.395		2
06126	Barium	7440-39-3	79.9		0.105	0.395		2
06127	Beryllium	7440-41-7	0.398		0.0158	0.0988		2
06128	Cadmium	7440-43-9	0.319		0.0435	0.0988		2
06131	Chromium	7440-47-3	15.6		0.119	0.395		2
06132	Cobalt	7440-48-4	4.97		0.0198	0.0988		2
06133	Copper	7440-50-8	8.81		0.0791	0.395		2
06135	Lead	7439-92-1	31.2		0.0101	0.198		2
06138	Molybdenum	7439-98-7	0.491		0.0494	0.0988		2
06139	Nickel	7440-02-0	8.52		0.0988	0.395		2
06141	Selenium	7782-49-2	0.0836	J	0.0573	0.395		2
06142	Silver	7440-22-4	0.0600	J	0.0140	0.0988		2
06145	Thallium	7440-28-0	0.240		0.0296	0.0988		2
06148	Vanadium	7440-62-2	30.7		0.0217	0.0988		2
06149	Zinc	7440-66-6	150		0.553	2.96		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0097	J	0.0066	0.0942		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.39	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.39		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.80		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: **SL-009-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA7-SS-0.0-0.5

LLI Sample # SW 6409790
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 10:10

Submitted: 09/17/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4601 SDG#: DE246-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11266SLF026	09/30/2011 01:01	Jennifer R Riggs	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLE026	09/29/2011 11:18	Mark A Clark	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11266SLE026	09/27/2011 11:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11266SLF026	09/27/2011 10:15	Roza S Goslawska	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670006A	09/28/2011 04:39	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112660021A	09/27/2011 22:01	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112650011A	09/23/2011 12:31	Jamie L Brillhart	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112660021A	09/24/2011 06:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112650011A	09/22/2011 16:10	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670006A	09/26/2011 20:50	Roman Kuropatkin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112620030A	09/21/2011 03:13	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620011A	09/21/2011 02:23	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112650025A	09/24/2011 02:53	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112660005A	09/27/2011 17:31	Heather E Williams	20
11238	EFH Extraction - Soils	SW-846 3550B	1	112660005A	09/23/2011 15:00	Wanda F Oswald	1
10303	Terphenyls soil prep	SW-846 3550B	1	112650025A	09/23/2011 08:10	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112620030A	09/19/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620011A	09/19/2011 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112635708002	09/28/2011 12:12	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112635708002	09/28/2011 12:12	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112635708002	09/28/2011 12:12	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112635708002	09/28/2011 12:12	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112635708002	09/28/2011 12:12	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112635708002	09/28/2011 12:12	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112635708002	09/28/2011 12:12	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112635708002	09/28/2011 12:12	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112635708002	09/28/2011 12:12	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112635708002	09/28/2011 12:12	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112635708002	09/28/2011 12:12	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112635708002	09/28/2011 12:12	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112635708002	09/28/2011 12:12	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112635708002	09/28/2011 12:12	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112631026002A	09/21/2011 07:51	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-009-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA7-SS-0.0-0.5

LLI Sample # SW 6409790
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 10:10

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4601 SDG#: DE246-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	112631026002A	09/21/2011 07:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026002D	09/21/2011 07:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026002A	09/21/2011 07:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112631026002A	09/21/2011 07:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026002A	09/21/2011 07:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026002A	09/21/2011 07:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026002A	09/21/2011 07:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026002A	09/21/2011 07:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026002C	09/21/2011 07:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026002A	09/21/2011 07:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026002B	09/21/2011 07:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026002A	09/21/2011 07:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026002A	09/21/2011 07:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026002A	09/21/2011 07:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026002A	09/21/2011 07:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112635711003	09/21/2011 11:15	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708002	09/20/2011 22:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026002	09/20/2011 22:24	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711003	09/20/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11270621201A	09/28/2011 18:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11264264201A	09/23/2011 18:17	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11272243202A	10/01/2011 09:28	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11271102201A	09/28/2011 19:41	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11270621201A	09/27/2011 07:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11264264201A	09/21/2011 17:45	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11271102201A	09/28/2011 15:10	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11272039402A	09/29/2011 11:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11272243202A	09/29/2011 12:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11265162401B	09/22/2011 22:12	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-017-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA7-SS-0.0-0.5

LLI Sample # SW 6409791
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:15

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4602 SDG#: DE246-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	840	U	840	2,500		5
04688	Benzidine	92-87-5	5,900	U	5,900	17,000		5
04688	Benzo(g,h,i)perylene	191-24-2	4,600		84	840		5
04688	Benzoic acid	65-85-0	840	U	840	2,500		5
04688	Benzyl alcohol	100-51-6	840	U	840	2,500		5
04688	4-Bromophenyl-phenylether	101-55-3	84	U	84	840		5
04688	Carbazole	86-74-8	2,000		84	840		5
04688	4-Chloro-3-methylphenol	59-50-7	170	U	170	840		5
04688	4-Chloroaniline	106-47-8	340	U	340	840		5
04688	bis(2-Chloroethoxy)methane	111-91-1	84	U	84	840		5
04688	bis(2-Chloroethyl)ether	111-44-4	84	U	84	840		5
04688	bis(2-Chloroisopropyl)ether	39638-32-9	84	U	84	840		5
04688	2-Chloronaphthalene	91-58-7	84	U	84	840		5
04688	2-Chlorophenol	95-57-8	84	U	84	840		5
04688	4-Chlorophenyl-phenylether	7005-72-3	170	U	170	840		5
04688	Dibenz(a,h)anthracene	53-70-3	1,100		84	840		5
04688	Dibenzofuran	132-64-9	340	J	84	840		5
04688	1,2-Dichlorobenzene	95-50-1	84	U	84	840		5
04688	1,3-Dichlorobenzene	541-73-1	84	U	84	840		5
04688	1,4-Dichlorobenzene	106-46-7	84	U	84	840		5
04688	3,3'-Dichlorobenzidine	91-94-1	500	U	500	1,700		5
04688	2,4-Dichlorophenol	120-83-2	84	U	84	840		5
04688	2,4-Dimethylphenol	105-67-9	170	U	170	840		5
04688	3,5-Dimethylphenol	108-68-9	170	U	170	840		5
04688	4,6-Dinitro-2-methylphenol	534-52-1	840	U	840	2,500		5
04688	2,4-Dinitrophenol	51-28-5	1,700	U	1,700	5,000		5
04688	2,4-Dinitrotoluene	121-14-2	170	U	170	840		5
04688	2,6-Dinitrotoluene	606-20-2	84	U	84	840		5
04688	1,2-Diphenylhydrazine	122-66-7	84	U	84	840		5
04688	Hexachlorobenzene	118-74-1	84	U	84	840		5
04688	Hexachlorobutadiene	87-68-3	340	U	340	840		5
04688	Hexachlorocyclopentadiene	77-47-4	840	U	840	2,500		5
04688	Hexachloroethane	67-72-1	84	U	84	840		5
04688	Indeno(1,2,3-cd)pyrene	193-39-5	4,400		84	840		5
04688	Isophorone	78-59-1	84	U	84	840		5
04688	2-Methylphenol	95-48-7	170	U	170	840		5
04688	4-Methylphenol	106-44-5	170	U	170	840		5
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	84	U	84	840		5
04688	3-Nitroaniline	99-09-2	170	U	170	840		5
04688	4-Nitroaniline	100-01-6	340	U	340	840		5
04688	Nitrobenzene	98-95-3	84	U	84	840		5
04688	2-Nitrophenol	88-75-5	84	U	84	840		5
04688	4-Nitrophenol	100-02-7	840	U	840	2,500		5
04688	N-Nitroso-di-n-propylamine	621-64-7	84	U	84	840		5
04688	N-Nitrosodiphenylamine	86-30-6	84	U	84	840		5

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Sample Description: **SL-017-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA7-SS-0.0-0.5

LLI Sample # SW 6409791
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:15

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4602 SDG#: DE246-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	840	U	840	2,500		5
04688	Phenol	108-95-2	84	U	84	840		5
04688	Tetralin	119-64-2	840	U	840	840		5
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	84	U	84	840		5
04688	2,4,5-Trichlorophenol	95-95-4	170	U	170	840		5
04688	2,4,6-Trichlorophenol	88-06-2	170	U	170	840		5
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	1,300		6.7	17		10
10138	Acenaphthylene	208-96-8	78		3.4	17		10
10138	Anthracene	120-12-7	2,500		3.4	17		10
10138	Benzo(a)anthracene	56-55-3	9,200		130	340		200
10138	Benzo(a)pyrene	50-32-8	8,800		130	340		200
10138	Benzo(b)fluoranthene	205-99-2	14,000		130	340		200
10138	Benzo(k)fluoranthene	207-08-9	6,500		130	340		200
10138	Butylbenzylphthalate	85-68-7	61	U	61	180		10
10138	Di-n-butylphthalate	84-74-2	61	U	61	180		10
10138	Chrysene	218-01-9	12,000		67	340		200
10138	Diethylphthalate	84-66-2	61	U	61	180		10
10138	Dimethylphthalate	131-11-3	61	U	61	180		10
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	240		61	180		10
10138	Fluoranthene	206-44-0	29,000		130	340		200
10138	Fluorene	86-73-7	990		6.7	17		10
10138	1-Methylnaphthalene	90-12-0	140		6.7	17		10
10138	2-Methylnaphthalene	91-57-6	140		6.7	17		10
10138	Naphthalene	91-20-3	330		6.7	17		10
10138	N-Nitrosodimethylamine	62-75-9	6.7	U	6.7	17		10
10138	Di-n-octylphthalate	117-84-0	61	U	61	180		10
10138	Phenanthrene	85-01-8	18,000		130	340		200
10138	Pyrene	129-00-0	23,000		130	340		200
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	15	U	15	15		1

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Sample Description: SL-017-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA7-SS-0.0-0.5

LLI Sample # SW 6409791
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:15

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4602 SDG#: DE246-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	1.4		0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.1	U	2.1	5.0		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	1.3	U	1.3	3.3		20
01363	Alpha BHC	319-84-6	0.69	U	0.69	3.3		20
01363	Beta BHC	319-85-7	1.2	U	1.2	3.3		20
01363	Gamma BHC - Lindane	58-89-9	0.69	U	0.69	3.3		20
01363	Chlordane	57-74-9	16	U	16	69		20
01363	p,p-DDD	72-54-8	3.4	U	3.4	6.9		20
01363	p,p-DDE	72-55-9	1.3	U	1.3	6.9		20
01363	p,p-DDT	50-29-3	6.4	U	6.4	6.9		20
01363	Delta BHC	319-86-8	0.73	U	0.73	3.3		20
01363	Dieldrin	60-57-1	1.3	U	1.3	6.9		20
01363	Endosulfan I	959-98-8	0.89	U	0.89	3.3		20
01363	Endosulfan II	33213-65-9	2.7	U	2.7	6.9		20
01363	Endosulfan Sulfate	1031-07-8	1.3	U	1.3	6.9		20
01363	Endrin	72-20-8	1.6	U	1.6	6.9		20
01363	Endrin Aldehyde	7421-93-4	3.9	U	3.9	6.9		20
01363	Endrin Ketone	53494-70-5	1.3	U	1.3	6.9		20
01363	Heptachlor	76-44-8	1.2	U	1.2	3.3		20
01363	Heptachlor Epoxide	1024-57-3	1.4	U	1.4	3.3		20
01363	Methoxychlor	72-43-5	6.9	U	6.9	33		20
01363	Mirex	2385-85-5	1.3	U	1.3	6.9		20
01363	Toxaphene	8001-35-2	44	U	44	130		20

Maintenance and a new calibration was performed prior to the analysis of the samples. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	5.0	U	5.0	17		5
10225	Aroclor 5442	12642-23-8	5.0	U	5.0	17		5
10225	Aroclor 5460	11126-42-4	28		5.0	17		5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.6		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.6		5

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Sample Description: **SL-017-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA7-SS-0.0-0.5

LLI Sample # SW 6409791
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:15

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4602 SDG#: DE246-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.6		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.6		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.6		5
10225	PCB-1254	11097-69-1	26		1.7	8.6		5
10225	PCB-1260	11096-82-5	20		2.0	8.6		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.6		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.6		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	100	U	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	10	U	10	30		25
10199	EFH (C15-C20)	n.a.	39		10	30		25
10199	EFH (C21-C30)	n.a.	330		10	30		25
10199	EFH (C30 - C40)	n.a.	670		10	30		25
10199	EFH (C8-C11)	n.a.	10	U	10	30		25
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,300		6.04	20.0		1
07914	Boron	7440-42-8	1.72	J	0.359	4.99		1
01650	Calcium	7440-70-2	2,670		2.50	20.0		1
01654	Iron	7439-89-6	19,400		2.61	20.0		1
01656	Lithium	7439-93-2	20.2		0.62	2.0		1
01657	Magnesium	7439-95-4	3,400		0.439	9.99		1
06958	Manganese	7439-96-5	255		0.0359	0.499		1
10145	Phosphorus	7723-14-0	490		0.350	9.99		1
01662	Potassium	7440-09-7	3,130		11.3	49.9		1
01667	Sodium	7440-23-5	92.0	J	5.94	99.9		1
07968	Strontium	7440-24-6	14.6		0.0250	0.499		1
06969	Tin	7440-31-5	4.42	J	0.320	9.99		1
06970	Titanium	7440-32-6	1,020		0.0709	0.999		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-017-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA7-SS-0.0-0.5

LLI Sample # SW 6409791
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:15

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4602 SDG#: DE246-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10146	Zirconium	7440-67-7	0.618	J	0.459	4.99		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.22		0.0732	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.42		0.0791	0.396		2
06126	Barium	7440-39-3	79.2		0.105	0.396		2
06127	Beryllium	7440-41-7	0.534		0.0158	0.0989		2
06128	Cadmium	7440-43-9	1.20		0.0435	0.0989		2
06131	Chromium	7440-47-3	25.1		0.119	0.396		2
06132	Cobalt	7440-48-4	4.76		0.0198	0.0989		2
06133	Copper	7440-50-8	13.9		0.0791	0.396		2
06135	Lead	7439-92-1	54.9		0.0101	0.198		2
06138	Molybdenum	7439-98-7	1.22		0.0494	0.0989		2
06139	Nickel	7440-02-0	17.5		0.0989	0.396		2
06141	Selenium	7782-49-2	0.0928	J	0.0574	0.396		2
06142	Silver	7440-22-4	0.165		0.0140	0.0989		2
06145	Thallium	7440-28-0	0.239		0.0297	0.0989		2
06148	Vanadium	7440-62-2	32.1		0.0218	0.0989		2
06149	Zinc	7440-66-6	623		2.77	14.8		10
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0709	J	0.0070	0.0991		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.95	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.49		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.76		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.85		0.50	0.50		1

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Sample Description: **SL-017-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA7-SS-0.0-0.5

LLI Sample # SW 6409791
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:15

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4602 SDG#: DE246-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11266SLF026	09/29/2011 23:47	Jennifer R Riggs	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLE026	09/29/2011 12:59	Mark A Clark	10
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLE026	09/29/2011 21:53	Gregory J Drahovsky	200
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11266SLE026	09/27/2011 11:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11266SLF026	09/27/2011 10:15	Roza S Goslawska	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670006A	09/28/2011 03:17	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112690003A	09/27/2011 15:13	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112660021A	09/27/2011 22:58	Melissa McDermott	20
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112650011A	09/23/2011 13:45	Jamie L Brillhart	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112660021A	09/24/2011 06:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112650011A	09/22/2011 16:10	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670006A	09/26/2011 20:50	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112690003A	09/27/2011 07:00	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112620030A	09/21/2011 03:28	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620011A	09/21/2011 02:36	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112650025A	09/24/2011 04:21	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112660005A	09/27/2011 19:54	Heather E Williams	25
11238	EFH Extraction - Soils	SW-846 3550B	1	112660005A	09/23/2011 15:00	Wanda F Oswald	1
10303	Terphenyls soil prep	SW-846 3550B	1	112650025A	09/23/2011 08:10	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112620030A	09/19/2011 19:00	Elizabeth J Marin	1

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Sample Description: **SL-017-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA7-SS-0.0-0.5

LLI Sample # SW 6409791
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:15

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4602 SDG#: DE246-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620011A	09/19/2011 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112635708002	09/28/2011 12:36	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112635708002	09/28/2011 12:36	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112635708002	09/28/2011 12:36	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112635708002	09/28/2011 12:36	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112635708002	09/28/2011 12:36	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112635708002	09/28/2011 12:36	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112635708002	09/28/2011 12:36	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112635708002	09/28/2011 12:36	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112635708002	09/28/2011 12:36	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112635708002	09/28/2011 12:36	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112635708002	09/28/2011 12:36	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112635708002	09/28/2011 12:36	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112635708002	09/28/2011 12:36	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112635708002	09/28/2011 12:36	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112631026002A	09/21/2011 08:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026002A	09/21/2011 08:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026002D	09/21/2011 08:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026002A	09/21/2011 08:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112631026002A	09/21/2011 08:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026002A	09/21/2011 08:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026002A	09/21/2011 08:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026002A	09/21/2011 08:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026002A	09/21/2011 08:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026002C	09/21/2011 08:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026002A	09/21/2011 08:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026002B	09/21/2011 08:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026002A	09/21/2011 08:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026002A	09/21/2011 08:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026002A	09/21/2011 08:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026002A	09/21/2011 09:00	Choon Y Tian	10
00159	Mercury	SW-846 7471A	1	112635711003	09/21/2011 11:24	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708002	09/20/2011 22:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026002	09/20/2011 22:24	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711003	09/20/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11270621201A	09/28/2011 19:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11264264201A	09/23/2011 19:26	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11272243202A	10/01/2011 09:45	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11271102201A	09/28/2011 19:42	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11270621201A	09/27/2011 07:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11264264201A	09/21/2011 17:45	Carolyn M Mastropietro	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-017-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA7-SS-0.0-0.5

LLI Sample # SW 6409791
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:15

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4602 SDG#: DE246-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05896	Cyanide Solid Distillation	SW-846 9012B	1	11271102201A	09/28/2011 15:10	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11272039402A	09/29/2011 11:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11272243202A	09/29/2011 12:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11265162401B	09/22/2011 22:12	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-052-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA7-SS-0.0-0.5

LLI Sample # SW 6409792
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 10:50

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4603 SDG#: DE246-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	840	U	840	2,500		5
04688	Benzidine	92-87-5	5,800	U	5,800	17,000		5
04688	Benzo(g,h,i)perylene	191-24-2	3,400		84	840		5
04688	Benzoic acid	65-85-0	840	U	840	2,500		5
04688	Benzyl alcohol	100-51-6	840	U	840	2,500		5
04688	4-Bromophenyl-phenylether	101-55-3	84	U	84	840		5
04688	Carbazole	86-74-8	1,000		84	840		5
04688	4-Chloro-3-methylphenol	59-50-7	170	U	170	840		5
04688	4-Chloroaniline	106-47-8	330	U	330	840		5
04688	bis(2-Chloroethoxy)methane	111-91-1	84	U	84	840		5
04688	bis(2-Chloroethyl)ether	111-44-4	84	U	84	840		5
04688	bis(2-Chloroisopropyl)ether	39638-32-9	84	U	84	840		5
04688	2-Chloronaphthalene	91-58-7	84	U	84	840		5
04688	2-Chlorophenol	95-57-8	84	U	84	840		5
04688	4-Chlorophenyl-phenylether	7005-72-3	170	U	170	840		5
04688	Dibenz(a,h)anthracene	53-70-3	970		84	840		5
04688	Dibenzofuran	132-64-9	110	J	84	840		5
04688	1,2-Dichlorobenzene	95-50-1	84	U	84	840		5
04688	1,3-Dichlorobenzene	541-73-1	84	U	84	840		5
04688	1,4-Dichlorobenzene	106-46-7	84	U	84	840		5
04688	3,3'-Dichlorobenzidine	91-94-1	500	U	500	1,700		5
04688	2,4-Dichlorophenol	120-83-2	84	U	84	840		5
04688	2,4-Dimethylphenol	105-67-9	170	U	170	840		5
04688	3,5-Dimethylphenol	108-68-9	170	U	170	840		5
04688	4,6-Dinitro-2-methylphenol	534-52-1	840	U	840	2,500		5
04688	2,4-Dinitrophenol	51-28-5	1,700	U	1,700	5,000		5
04688	2,4-Dinitrotoluene	121-14-2	170	U	170	840		5
04688	2,6-Dinitrotoluene	606-20-2	84	U	84	840		5
04688	1,2-Diphenylhydrazine	122-66-7	84	U	84	840		5
04688	Hexachlorobenzene	118-74-1	84	U	84	840		5
04688	Hexachlorobutadiene	87-68-3	330	U	330	840		5
04688	Hexachlorocyclopentadiene	77-47-4	840	U	840	2,500		5
04688	Hexachloroethane	67-72-1	84	U	84	840		5
04688	Indeno(1,2,3-cd)pyrene	193-39-5	3,300		84	840		5
04688	Isophorone	78-59-1	84	U	84	840		5
04688	2-Methylphenol	95-48-7	170	U	170	840		5
04688	4-Methylphenol	106-44-5	170	U	170	840		5
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	84	U	84	840		5
04688	3-Nitroaniline	99-09-2	170	U	170	840		5
04688	4-Nitroaniline	100-01-6	330	U	330	840		5
04688	Nitrobenzene	98-95-3	84	U	84	840		5
04688	2-Nitrophenol	88-75-5	84	U	84	840		5
04688	4-Nitrophenol	100-02-7	840	U	840	2,500		5
04688	N-Nitroso-di-n-propylamine	621-64-7	84	U	84	840		5
04688	N-Nitrosodiphenylamine	86-30-6	84	U	84	840		5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-052-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-052-SA7-SS-0.0-0.5

LLI Sample # SW 6409792
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 10:50

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4603 SDG#: DE246-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	840	U	840	2,500		5
04688	Phenol	108-95-2	84	U	84	840		5
04688	Tetralin	119-64-2	840	U	840	840		5
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	84	U	84	840		5
04688	2,4,5-Trichlorophenol	95-95-4	170	U	170	840		5
04688	2,4,6-Trichlorophenol	88-06-2	170	U	170	840		5
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	680		6.7	17		10
10138	Acenaphthylene	208-96-8	62		3.4	17		10
10138	Anthracene	120-12-7	1,700		3.4	17		10
10138	Benzo(a)anthracene	56-55-3	8,600		130	340		200
10138	Benzo(a)pyrene	50-32-8	7,200		130	340		200
10138	Benzo(b)fluoranthene	205-99-2	12,000		130	340		200
10138	Benzo(k)fluoranthene	207-08-9	5,200		130	340		200
10138	Butylbenzylphthalate	85-68-7	61	U	61	180		10
10138	Di-n-butylphthalate	84-74-2	61	U	61	180		10
10138	Chrysene	218-01-9	10,000		67	340		200
10138	Diethylphthalate	84-66-2	61	U	61	180		10
10138	Dimethylphthalate	131-11-3	61	U	61	180		10
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	270		61	180		10
10138	Fluoranthene	206-44-0	25,000		130	340		200
10138	Fluorene	86-73-7	500		6.7	17		10
10138	1-Methylnaphthalene	90-12-0	59		6.7	17		10
10138	2-Methylnaphthalene	91-57-6	40		6.7	17		10
10138	Naphthalene	91-20-3	67		6.7	17		10
10138	N-Nitrosodimethylamine	62-75-9	6.7	U	6.7	17		10
10138	Di-n-octylphthalate	117-84-0	61	U	61	180		10
10138	Phenanthrene	85-01-8	12,000		130	340		200
10138	Pyrene	129-00-0	20,000		130	340		200
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	14		0.62	1.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-052-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-052-SA7-SS-0.0-0.5

LLI Sample # SW 6409792
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 10:50

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4603 SDG#: DE246-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1
10401	MCPA	94-74-6	76	U	76	250		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.49		0.082	0.17		1
10401	2,4,5-TP	93-72-1	0.10	U	0.10	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.67	U	0.67	1.7		10
01363	Alpha BHC	319-84-6	0.34	U	0.34	1.7		10
01363	Beta BHC	319-85-7	0.61	U	0.61	1.7		10
01363	Gamma BHC - Lindane	58-89-9	0.34	U	0.34	1.7		10
01363	Chlordane	57-74-9	8.1	U	8.1	34		10
01363	p,p-DDD	72-54-8	5.3	U	5.3	5.3		10
01363	p,p-DDE	72-55-9	1.6	U	1.6	3.4		10
01363	p,p-DDT	50-29-3	8.4	U	8.4	8.4		10
01363	Delta BHC	319-86-8	0.36	U	0.36	1.7		10
01363	Dieldrin	60-57-1	1.4	U	1.4	3.4		10
01363	Endosulfan I	959-98-8	0.44	U	0.44	1.7		10
01363	Endosulfan II	33213-65-9	1.2	U	1.2	3.4		10
01363	Endosulfan Sulfate	1031-07-8	0.67	U	0.67	3.4		10
01363	Endrin	72-20-8	1.7	U	1.7	3.4		10
01363	Endrin Aldehyde	7421-93-4	4.0	U	4.0	4.0		10
01363	Endrin Ketone	53494-70-5	1.1	U	1.1	3.4		10
01363	Heptachlor	76-44-8	0.61	U	0.61	1.7		10
01363	Heptachlor Epoxide	1024-57-3	1.5	U	1.5	1.7		10
01363	Methoxychlor	72-43-5	3.4	U	3.4	17		10
01363	Mirex	2385-85-5	6.6	U	6.6	6.6		10
01363	Toxaphene	8001-35-2	280	U	280	280		10

Maintenance and a new calibration was performed prior to the analysis of the samples. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	5.0	U	5.0	17		5
10225	Aroclor 5442	12642-23-8	5.0	U	5.0	17		5
10225	Aroclor 5460	11126-42-4	23		5.0	17		5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.6		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.6		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.6		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.6		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.6		5
10225	PCB-1254	11097-69-1	39		1.7	8.6		5

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Sample Description: SL-052-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA7-SS-0.0-0.5

LLI Sample # SW 6409792
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 10:50

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4603 SDG#: DE246-03

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs		**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1260		11096-82-5	27		2.0	8.6		5
10225	PCB-1262		37324-23-5	1.7	U	1.7	8.6		5
10225	PCB-1268		11100-14-4	1.7	U	1.7	8.6		5
GC Miscellaneous		**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol		64-17-5	100	U	100	500		1
10501	Isopropanol		67-63-0	100	U	100	500		1
10501	Methanol		67-56-1	100	U	100	500		1
GC Miscellaneous		**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol		111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol		107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol		57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons		**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl		92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl		84-15-1	2.8	J	1.5	3.5		1
10318	p-Terphenyl		92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons		**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)		n.a.	20	U	20	61		50
10199	EFH (C15-C20)		n.a.	47	J	20	61		50
10199	EFH (C21-C30)		n.a.	410		20	61		50
10199	EFH (C30 - C40)		n.a.	1,100		20	61		50
10199	EFH (C8-C11)		n.a.	20	U	20	61		50
Metals		**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum		7429-90-5	9,710		6.04	20.0		1
07914	Boron		7440-42-8	0.360	U	0.360	4.99		1
01650	Calcium		7440-70-2	2,890		2.50	20.0		1
01654	Iron		7439-89-6	17,600		2.61	20.0		1
01656	Lithium		7439-93-2	18.3		0.62	2.0		1
01657	Magnesium		7439-95-4	3,510		0.439	9.99		1
06958	Manganese		7439-96-5	240		0.0360	0.499		1
10145	Phosphorus		7723-14-0	479		0.350	9.99		1
01662	Potassium		7440-09-7	2,990		11.3	49.9		1
01667	Sodium		7440-23-5	137		5.94	99.9		1
07968	Strontium		7440-24-6	15.6		0.0250	0.499		1
06969	Tin		7440-31-5	3.44	J	0.320	9.99		1
06970	Titanium		7440-32-6	947		0.0709	0.999		1
10146	Zirconium		7440-67-7	0.833	J	0.459	4.99		1
		SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony		7440-36-0	3.09		0.0746	0.202		2

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Sample Description: **SL-052-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-052-SA7-SS-0.0-0.5

LLI Sample # SW 6409792
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 10:50

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4603 SDG#: DE246-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.48		0.0807	0.404		2
06126	Barium	7440-39-3	72.7		0.107	0.404		2
06127	Beryllium	7440-41-7	0.384		0.0161	0.101		2
06128	Cadmium	7440-43-9	1.15		0.0444	0.101		2
06131	Chromium	7440-47-3	25.3		0.121	0.404		2
06132	Cobalt	7440-48-4	4.81		0.0202	0.101		2
06133	Copper	7440-50-8	13.5		0.0807	0.404		2
06135	Lead	7439-92-1	55.6		0.0103	0.202		2
06138	Molybdenum	7439-98-7	1.01		0.0504	0.101		2
06139	Nickel	7440-02-0	16.2		0.101	0.404		2
06141	Selenium	7782-49-2	0.119	J	0.0585	0.404		2
06142	Silver	7440-22-4	0.212		0.0143	0.101		2
06145	Thallium	7440-28-0	0.210		0.0303	0.101		2
06148	Vanadium	7440-62-2	27.6		0.0222	0.101		2
06149	Zinc	7440-66-6	634		2.82	15.1		10
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0676	J	0.0070	0.0989		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.79	U	0.79	0.99		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1		0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.49		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.84		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.87		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: **SL-052-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-052-SA7-SS-0.0-0.5

LLI Sample # SW 6409792
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 10:50

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4603 SDG#: DE246-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11266SLF026	09/30/2011 01:26	Jennifer R Riggs	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLE026	09/29/2011 13:33	Mark A Clark	10
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLE026	09/29/2011 22:27	Gregory J Drahovsky	200
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11266SLE026	09/27/2011 11:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11266SLF026	09/27/2011 10:15	Roza S Goslawska	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670048A	09/29/2011 15:01	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112660021A	09/27/2011 23:32	Melissa McDermott	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112650011A	09/23/2011 14:04	Jamie L Brillhart	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112660021A	09/24/2011 06:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112650011A	09/22/2011 16:10	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670048A	09/28/2011 02:00	David V Hershey Jr	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112620030A	09/21/2011 03:43	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620011A	09/21/2011 02:48	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112650025A	09/24/2011 04:43	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112660005A	09/27/2011 20:42	Heather E Williams	50
11238	EFH Extraction - Soils	SW-846 3550B	1	112660005A	09/23/2011 15:00	Wanda F Oswald	1
10303	Terphenyls soil prep	SW-846 3550B	1	112650025A	09/23/2011 08:10	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112620030A	09/19/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620011A	09/19/2011 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112635708002	09/28/2011 12:48	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112635708002	09/28/2011 12:48	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112635708002	09/28/2011 12:48	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112635708002	09/28/2011 12:48	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112635708002	09/28/2011 12:48	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112635708002	09/28/2011 12:48	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112635708002	09/28/2011 12:48	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112635708002	09/28/2011 12:48	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112635708002	09/28/2011 12:48	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112635708002	09/28/2011 12:48	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112635708002	09/28/2011 12:48	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112635708002	09/28/2011 12:48	Joanne M Gates	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-052-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-052-SA7-SS-0.0-0.5

LLI Sample # SW 6409792
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 10:50

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4603 SDG#: DE246-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112635708002	09/28/2011 12:48	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112635708002	09/28/2011 12:48	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112631026002A	09/21/2011 08:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026002A	09/21/2011 08:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026002D	09/21/2011 08:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026002A	09/21/2011 08:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112631026002A	09/21/2011 08:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026002A	09/21/2011 08:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026002A	09/21/2011 08:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026002A	09/21/2011 08:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026002A	09/21/2011 08:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026002C	09/21/2011 08:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026002A	09/21/2011 08:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026002B	09/21/2011 08:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026002A	09/21/2011 08:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026002A	09/21/2011 08:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026002A	09/21/2011 08:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026002A	09/21/2011 09:03	Choon Y Tian	10
00159	Mercury	SW-846 7471A	1	112635711003	09/21/2011 11:26	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708002	09/20/2011 22:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026002	09/20/2011 22:24	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711003	09/20/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11270621201A	09/28/2011 19:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11264264201A	09/23/2011 20:12	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11272243202A	10/01/2011 09:58	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11271102201A	09/28/2011 19:43	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11270621201A	09/27/2011 07:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11264264201A	09/21/2011 17:45	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11271102201A	09/28/2011 15:10	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11272039402A	09/29/2011 11:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11272243202A	09/29/2011 12:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11265162401B	09/22/2011 22:12	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-053-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA7-SS-0.0-0.5

LLI Sample # SW 6409793
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:30

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4604 SDG#: DE246-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	840	U	840	2,500		5
04688	Benzidine	92-87-5	5,900	U	5,900	17,000		5
04688	Benzo(a)anthracene	56-55-3	400	J	84	840		5
04688	Benzo(a)pyrene	50-32-8	500	J	84	840		5
04688	Benzo(b)fluoranthene	205-99-2	770	J	84	840		5
04688	Benzo(g,h,i)perylene	191-24-2	390	J	84	840		5
04688	Benzo(k)fluoranthene	207-08-9	280	J	84	840		5
04688	Benzoic acid	65-85-0	840	U	840	2,500		5
04688	Benzyl alcohol	100-51-6	840	U	840	2,500		5
04688	4-Bromophenyl-phenylether	101-55-3	84	U	84	840		5
04688	Carbazole	86-74-8	130	J	84	840		5
04688	4-Chloro-3-methylphenol	59-50-7	170	U	170	840		5
04688	4-Chloroaniline	106-47-8	340	U	340	840		5
04688	bis(2-Chloroethoxy)methane	111-91-1	84	U	84	840		5
04688	bis(2-Chloroethyl)ether	111-44-4	84	U	84	840		5
04688	bis(2-Chloroisopropyl)ether	39638-32-9	84	U	84	840		5
04688	2-Chloronaphthalene	91-58-7	84	U	84	840		5
04688	2-Chlorophenol	95-57-8	84	U	84	840		5
04688	4-Chlorophenyl-phenylether	7005-72-3	170	U	170	840		5
04688	Chrysene	218-01-9	550	J	84	840		5
04688	Dibenz(a,h)anthracene	53-70-3	120	J	84	840		5
04688	Dibenzofuran	132-64-9	84	U	84	840		5
04688	1,2-Dichlorobenzene	95-50-1	84	U	84	840		5
04688	1,3-Dichlorobenzene	541-73-1	84	U	84	840		5
04688	1,4-Dichlorobenzene	106-46-7	84	U	84	840		5
04688	3,3'-Dichlorobenzidine	91-94-1	500	U	500	1,700		5
04688	2,4-Dichlorophenol	120-83-2	84	U	84	840		5
04688	2,4-Dimethylphenol	105-67-9	170	U	170	840		5
04688	3,5-Dimethylphenol	108-68-9	170	U	170	840		5
04688	4,6-Dinitro-2-methylphenol	534-52-1	840	U	840	2,500		5
04688	2,4-Dinitrophenol	51-28-5	1,700	U	1,700	5,000		5
04688	2,4-Dinitrotoluene	121-14-2	170	U	170	840		5
04688	2,6-Dinitrotoluene	606-20-2	84	U	84	840		5
04688	1,2-Diphenylhydrazine	122-66-7	84	U	84	840		5
04688	Fluoranthene	206-44-0	1,100		84	840		5
04688	Hexachlorobenzene	118-74-1	84	U	84	840		5
04688	Hexachlorobutadiene	87-68-3	340	U	340	840		5
04688	Hexachlorocyclopentadiene	77-47-4	840	U	840	2,500		5
04688	Hexachloroethane	67-72-1	84	U	84	840		5
04688	Indeno(1,2,3-cd)pyrene	193-39-5	380	J	84	840		5
04688	Isophorone	78-59-1	84	U	84	840		5
04688	2-Methylphenol	95-48-7	170	U	170	840		5
04688	4-Methylphenol	106-44-5	170	U	170	840		5
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	84	U	84	840		5
04688	3-Nitroaniline	99-09-2	170	U	170	840		5
04688	4-Nitroaniline	100-01-6	340	U	340	840		5
04688	Nitrobenzene	98-95-3	84	U	84	840		5

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SL-053-SA7-SS-0.0-0.5

LLI Sample # SW 6409793
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:30

Submitted: 09/17/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E4604 SDG#: DE246-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	84	U	84	840		5
04688	4-Nitrophenol	100-02-7	840	U	840	2,500		5
04688	N-Nitroso-di-n-propylamine	621-64-7	84	U	84	840		5
04688	N-Nitrosodiphenylamine	86-30-6	84	U	84	840		5
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	840	U	840	2,500		5
04688	Phenanthrene	85-01-8	500	J	84	840		5
04688	Phenol	108-95-2	84	U	84	840		5
04688	Pyrene	129-00-0	920		84	840		5
04688	Tetralin	119-64-2	840	U	840	840		5
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	84	U	84	840		5
04688	2,4,5-Trichlorophenol	95-95-4	170	U	170	840		5
04688	2,4,6-Trichlorophenol	88-06-2	170	U	170	840		5
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	13	J	6.7	17		10
10138	Acenaphthylene	208-96-8	3.4	U	3.4	17		10
10138	Anthracene	120-12-7	33		3.4	17		10
10138	Butylbenzylphthalate	85-68-7	61	U	61	180		10
10138	Di-n-butylphthalate	84-74-2	61	U	61	180		10
10138	Diethylphthalate	84-66-2	61	U	61	180		10
10138	Dimethylphthalate	131-11-3	61	U	61	180		10
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	61	U	61	180		10
10138	Fluorene	86-73-7	11	J	6.7	17		10
10138	1-Methylnaphthalene	90-12-0	6.7	U	6.7	17		10
10138	2-Methylnaphthalene	91-57-6	6.7	U	6.7	17		10
10138	Naphthalene	91-20-3	6.7	U	6.7	17		10
10138	N-Nitrosodimethylamine	62-75-9	6.7	U	6.7	17		10
10138	Di-n-octylphthalate	117-84-0	61	U	61	180		10
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	0.69	U	0.69	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1

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SSFL Area IV Collocated Soil Sampling
SL-053-SA7-SS-0.0-0.5

LLI Sample # SW 6409793
LLI Group # 1267000
Account # 13013

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E4604 SDG#: DE246-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.12	U	0.12	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised due to interference from the sample matrix.

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	1.3		0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.049	U	0.049	0.17		1
01363	Chlordane	57-74-9	2.5	J	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.77	U	0.77	0.77		1
01363	p,p-DDE	72-55-9	0.91	U	0.91	0.91		1
01363	p,p-DDT	50-29-3	2.9	U	2.9	2.9		1
01363	Delta BHC	319-86-8	0.044	J	0.036	0.17		1
01363	Dieldrin	60-57-1	0.26	U	0.26	0.34		1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.17		1
01363	Endosulfan II	33213-65-9	0.23	U	0.23	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.16	U	0.16	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.45	U	0.45	0.45		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.15	U	0.15	0.17		1
01363	Methoxychlor	72-43-5	3.6	U	3.6	3.6		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	40	U	40	40		1

Maintenance and a new calibration was performed prior to the analysis of the samples. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site.
Reporting limits were raised due to interference from the sample matrix.

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	11		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	4.4		0.33	1.7		1
10225	PCB-1260	11096-82-5	6.9		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1

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SSFL Area IV Collocated Soil Sampling
SL-053-SA7-SS-0.0-0.5

LLI Sample # SW 6409793
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E4604 SDG#: DE246-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	100	U	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.0	U	4.0	12		10
10199	EFH (C15-C20)	n.a.	5.4	J	4.0	12		10
10199	EFH (C21-C30)	n.a.	42		4.0	12		10
10199	EFH (C30 - C40)	n.a.	200		4.0	12		10
10199	EFH (C8-C11)	n.a.	4.0	U	4.0	12		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,100		5.98	19.8		1
07914	Boron	7440-42-8	0.356	U	0.356	4.94		1
01650	Calcium	7440-70-2	1,980		2.47	19.8		1
01654	Iron	7439-89-6	16,700		2.58	19.8		1
01656	Lithium	7439-93-2	20.9		0.61	2.0		1
01657	Magnesium	7439-95-4	3,320		0.435	9.89		1
06958	Manganese	7439-96-5	242		0.0356	0.494		1
10145	Phosphorus	7723-14-0	417		0.346	9.89		1
01662	Potassium	7440-09-7	3,430		11.2	49.4		1
01667	Sodium	7440-23-5	70.3	J	5.88	98.9		1
07968	Strontium	7440-24-6	10.1		0.0247	0.494		1
06969	Tin	7440-31-5	3.19	J	0.316	9.89		1
06970	Titanium	7440-32-6	1,010		0.0702	0.989		1
10146	Zirconium	7440-67-7	1.06	J	0.455	4.94		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.699		0.0732	0.198		2

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E4604 SDG#: DE246-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.79		0.0791	0.396		2
06126	Barium	7440-39-3	60.2		0.105	0.396		2
06127	Beryllium	7440-41-7	0.404		0.0158	0.0989		2
06128	Cadmium	7440-43-9	1.58		0.0435	0.0989		2
06131	Chromium	7440-47-3	29.7		0.119	0.396		2
06132	Cobalt	7440-48-4	3.78		0.0198	0.0989		2
06133	Copper	7440-50-8	11.9		0.0791	0.396		2
06135	Lead	7439-92-1	17.3		0.0504	0.989		10
06138	Molybdenum	7439-98-7	1.06		0.0494	0.0989		2
06139	Nickel	7440-02-0	13.7		0.0989	0.396		2
06141	Selenium	7782-49-2	0.0963	J	0.0574	0.396		2
06142	Silver	7440-22-4	0.313		0.0140	0.0989		2
06145	Thallium	7440-28-0	0.195		0.0297	0.0989		2
06148	Vanadium	7440-62-2	25.3		0.0218	0.0989		2
06149	Zinc	7440-66-6	176		2.77	14.8		10
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0066	U	0.0066	0.0938		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80	U	0.80	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.51	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.49		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.80		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.85		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-053-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-053-SA7-SS-0.0-0.5

LLI Sample # SW 6409793
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:30

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4604 SDG#: DE246-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11266SLF026	09/30/2011 01:51	Jennifer R Riggs	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLE026	09/29/2011 14:07	Mark A Clark	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11266SLE026	09/27/2011 11:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11266SLF026	09/27/2011 10:15	Roza S Goslawska	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670048A	09/29/2011 15:29	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112660021A	09/28/2011 00:05	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112650011A	09/23/2011 14:23	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112660021A	09/24/2011 06:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112650011A	09/22/2011 16:10	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670048A	09/28/2011 02:00	David V Hershey Jr	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112620030A	09/21/2011 03:58	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620011A	09/21/2011 03:01	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112650025A	09/24/2011 02:31	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112660005A	09/27/2011 13:08	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112660005A	09/23/2011 15:00	Wanda F Oswald	1
10303	Terphenyls soil prep	SW-846 3550B	1	112650025A	09/23/2011 08:10	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112620030A	09/19/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620011A	09/19/2011 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112635708002	09/28/2011 12:52	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112635708002	09/28/2011 12:52	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112635708002	09/28/2011 12:52	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112635708002	09/28/2011 12:52	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112635708002	09/28/2011 12:52	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112635708002	09/28/2011 12:52	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112635708002	09/28/2011 12:52	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112635708002	09/28/2011 12:52	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112635708002	09/28/2011 12:52	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112635708002	09/28/2011 12:52	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112635708002	09/28/2011 12:52	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112635708002	09/28/2011 12:52	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112635708002	09/28/2011 12:52	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112635708002	09/28/2011 12:52	Joanne M Gates	1

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-053-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-053-SA7-SS-0.0-0.5

LLI Sample # SW 6409793
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:30

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4604 SDG#: DE246-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112631026002A	09/21/2011 08:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026002A	09/21/2011 08:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026002D	09/21/2011 08:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026002A	09/21/2011 08:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112631026002A	09/21/2011 08:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026002A	09/21/2011 08:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026002A	09/21/2011 08:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026002A	09/21/2011 08:22	Choon Y Tian	2
06135	Lead	SW-846 6020	3	112631026002A	09/23/2011 14:56	Choon Y Tian	10
06138	Molybdenum	SW-846 6020	1	112631026002C	09/21/2011 08:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026002A	09/21/2011 08:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026002B	09/21/2011 08:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026002A	09/21/2011 08:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026002A	09/21/2011 08:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026002A	09/21/2011 08:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	3	112631026002A	09/23/2011 14:56	Choon Y Tian	10
00159	Mercury	SW-846 7471A	1	112635711003	09/21/2011 11:27	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708002	09/20/2011 22:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026002	09/20/2011 22:24	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711003	09/20/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11270621201A	09/28/2011 19:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11264264201A	09/23/2011 20:36	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11272243202A	10/01/2011 10:05	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11271102201A	09/28/2011 19:47	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11270621201A	09/27/2011 07:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11264264201A	09/21/2011 17:45	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11271102201A	09/28/2011 15:10	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11272039402A	09/29/2011 11:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11272243202A	09/29/2011 12:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11265162401B	09/22/2011 22:12	Scott W Freisher	1

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Analysis Report

Sample Description: SL-083-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA7-SS-0.0-0.5

LLI Sample # SW 6409794
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:45

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4605 SDG#: DE246-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	840	U	840	2,500		5
04688	Benzidine	92-87-5	5,900	U	5,900	17,000		5
04688	Benzo(g,h,i)perylene	191-24-2	110	J	84	840		5
04688	Benzoic acid	65-85-0	840	U	840	2,500		5
04688	Benzyl alcohol	100-51-6	840	U	840	2,500		5
04688	4-Bromophenyl-phenylether	101-55-3	84	U	84	840		5
04688	Carbazole	86-74-8	84	U	84	840		5
04688	4-Chloro-3-methylphenol	59-50-7	170	U	170	840		5
04688	4-Chloroaniline	106-47-8	340	U	340	840		5
04688	bis(2-Chloroethoxy)methane	111-91-1	84	U	84	840		5
04688	bis(2-Chloroethyl)ether	111-44-4	84	U	84	840		5
04688	bis(2-Chloroisopropyl)ether	39638-32-9	84	U	84	840		5
04688	2-Chloronaphthalene	91-58-7	84	U	84	840		5
04688	2-Chlorophenol	95-57-8	84	U	84	840		5
04688	4-Chlorophenyl-phenylether	7005-72-3	170	U	170	840		5
04688	Dibenzofuran	132-64-9	84	U	84	840		5
04688	1,2-Dichlorobenzene	95-50-1	84	U	84	840		5
04688	1,3-Dichlorobenzene	541-73-1	84	U	84	840		5
04688	1,4-Dichlorobenzene	106-46-7	84	U	84	840		5
04688	3,3'-Dichlorobenzidine	91-94-1	500	U	500	1,700		5
04688	2,4-Dichlorophenol	120-83-2	84	U	84	840		5
04688	2,4-Dimethylphenol	105-67-9	170	U	170	840		5
04688	3,5-Dimethylphenol	108-68-9	170	U	170	840		5
04688	4,6-Dinitro-2-methylphenol	534-52-1	840	U	840	2,500		5
04688	2,4-Dinitrophenol	51-28-5	1,700	U	1,700	5,000		5
04688	2,4-Dinitrotoluene	121-14-2	170	U	170	840		5
04688	2,6-Dinitrotoluene	606-20-2	84	U	84	840		5
04688	1,2-Diphenylhydrazine	122-66-7	84	U	84	840		5
04688	bis(2-Ethylhexyl)phthalate	117-81-7	200	J	84	1,700		5
04688	Hexachlorobenzene	118-74-1	84	U	84	840		5
04688	Hexachlorobutadiene	87-68-3	340	U	340	840		5
04688	Hexachlorocyclopentadiene	77-47-4	840	U	840	2,500		5
04688	Hexachloroethane	67-72-1	84	U	84	840		5
04688	Isophorone	78-59-1	84	U	84	840		5
04688	2-Methylphenol	95-48-7	170	U	170	840		5
04688	4-Methylphenol	106-44-5	170	U	170	840		5
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	84	U	84	840		5
04688	3-Nitroaniline	99-09-2	170	U	170	840		5
04688	4-Nitroaniline	100-01-6	340	U	340	840		5
04688	Nitrobenzene	98-95-3	84	U	84	840		5
04688	2-Nitrophenol	88-75-5	84	U	84	840		5
04688	4-Nitrophenol	100-02-7	840	U	840	2,500		5
04688	N-Nitroso-di-n-propylamine	621-64-7	84	U	84	840		5
04688	N-Nitrosodiphenylamine	86-30-6	84	U	84	840		5
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-083-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-083-SA7-SS-0.0-0.5

LLI Sample # SW 6409794
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:45

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4605 SDG#: DE246-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	840	U	840	2,500		5
04688	Phenanthrene	85-01-8	230	J	84	840		5
04688	Phenol	108-95-2	84	U	84	840		5
04688	Tetralin	119-64-2	840	U	840	840		5
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	84	U	84	840		5
04688	2,4,5-Trichlorophenol	95-95-4	170	U	170	840		5
04688	2,4,6-Trichlorophenol	88-06-2	170	U	170	840		5
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	16	J	6.8	17		10
10138	Acenaphthylene	208-96-8	3.4	U	3.4	17		10
10138	Anthracene	120-12-7	32		3.4	17		10
10138	Benzo(a)anthracene	56-55-3	150		6.8	17		10
10138	Benzo(a)pyrene	50-32-8	140		6.8	17		10
10138	Benzo(b)fluoranthene	205-99-2	300		6.8	17		10
10138	Benzo(k)fluoranthene	207-08-9	110		6.8	17		10
10138	Butylbenzylphthalate	85-68-7	61	U	61	180		10
10138	Di-n-butylphthalate	84-74-2	61	U	61	180		10
10138	Chrysene	218-01-9	200		3.4	17		10
10138	Dibenz(a,h)anthracene	53-70-3	16	J	6.8	17		10
10138	Diethylphthalate	84-66-2	61	U	61	180		10
10138	Dimethylphthalate	131-11-3	61	U	61	180		10
10138	Fluoranthene	206-44-0	380		6.8	17		10
10138	Fluorene	86-73-7	11	J	6.8	17		10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	48		6.8	17		10
10138	1-Methylnaphthalene	90-12-0	6.8	U	6.8	17		10
10138	2-Methylnaphthalene	91-57-6	6.8	U	6.8	17		10
10138	Naphthalene	91-20-3	6.8	U	6.8	17		10
10138	N-Nitrosodimethylamine	62-75-9	6.8	U	6.8	17		10
10138	Di-n-octylphthalate	117-84-0	61	U	61	180		10
10138	Pyrene	129-00-0	360		6.8	17		10
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	0.63	U	0.63	1.7		1
10401	Dicamba	1918-00-9	0.43	J	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-083-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA7-SS-0.0-0.5

LLI Sample # SW 6409794
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:45

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4605 SDG#: DE246-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	120	J	76	250		1
10401	2,4,5-T	93-76-5	0.092	U	0.092	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.11	U	0.11	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.19	U	0.19	0.19		1
01363	Chlordane	57-74-9	0.82	U	0.82	3.5		1
01363	p,p-DDD	72-54-8	1.2	U	1.2	1.2		1
01363	p,p-DDE	72-55-9	0.28	U	0.28	0.35		1
01363	p,p-DDT	50-29-3	3.0	U	3.0	3.0		1
01363	Delta BHC	319-86-8	0.14	U	0.14	0.17		1
01363	Dieldrin	60-57-1	0.16	U	0.16	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.14	U	0.14	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.26	U	0.26	0.35		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35		1
01363	Heptachlor	76-44-8	0.61	U	0.61	1.7		10
01363	Heptachlor Epoxide	1024-57-3	0.13	U	0.13	0.17		1
01363	Methoxychlor	72-43-5	0.46	U	0.46	1.7		1
01363	Mirex	2385-85-5	0.85	U	0.85	0.85		1
01363	Toxaphene	8001-35-2	35	U	35	35		1

Maintenance and a new calibration was performed prior to the analysis of the samples. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site.
Reporting limits were raised due to interference from the sample matrix.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	3.8		0.34	1.7		1
10225	PCB-1260	11096-82-5	2.9		0.40	1.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-083-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-083-SA7-SS-0.0-0.5

LLI Sample # SW 6409794
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:45

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4605 SDG#: DE246-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.1	U	4.1	12		10
10199	EFH (C15-C20)	n.a.	18		4.1	12		10
10199	EFH (C21-C30)	n.a.	140		4.1	12		10
10199	EFH (C30 - C40)	n.a.	250		4.1	12		10
10199	EFH (C8-C11)	n.a.	4.1	U	4.1	12		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	9,010		6.06	20.0		1
07914	Boron	7440-42-8	0.361	U	0.361	5.01		1
01650	Calcium	7440-70-2	1,700		2.50	20.0		1
01654	Iron	7439-89-6	14,900		2.61	20.0		1
01656	Lithium	7439-93-2	19.3		0.62	2.0		1
01657	Magnesium	7439-95-4	3,020		0.441	10.0		1
06958	Manganese	7439-96-5	235		0.0361	0.501		1
10145	Phosphorus	7723-14-0	336		0.350	10.0		1
01662	Potassium	7440-09-7	3,120		11.3	50.1		1
01667	Sodium	7440-23-5	69.2	J	5.96	100		1
07968	Strontium	7440-24-6	8.73		0.0250	0.501		1
06969	Tin	7440-31-5	2.96	J	0.320	10.0		1
06970	Titanium	7440-32-6	965		0.0711	1.00		1
10146	Zirconium	7440-67-7	0.726	J	0.461	5.01		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.174	J	0.0748	0.202		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-083-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-083-SA7-SS-0.0-0.5

LLI Sample # SW 6409794
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:45

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4605 SDG#: DE246-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.51		0.0809	0.405		2
06126	Barium	7440-39-3	89.0		0.107	0.405		2
06127	Beryllium	7440-41-7	0.506		0.0162	0.101		2
06128	Cadmium	7440-43-9	0.142		0.0445	0.101		2
06131	Chromium	7440-47-3	16.2		0.121	0.405		2
06132	Cobalt	7440-48-4	5.40		0.0202	0.101		2
06133	Copper	7440-50-8	7.55		0.0809	0.405		2
06135	Lead	7439-92-1	10.6		0.0103	0.202		2
06138	Molybdenum	7439-98-7	0.378		0.0506	0.101		2
06139	Nickel	7440-02-0	9.77		0.101	0.405		2
06141	Selenium	7782-49-2	0.109	J	0.0587	0.405		2
06142	Silver	7440-22-4	0.0269	J	0.0144	0.101		2
06145	Thallium	7440-28-0	0.328		0.0303	0.101		2
06148	Vanadium	7440-62-2	30.9		0.0222	0.101		2
06149	Zinc	7440-66-6	102		0.566	3.03		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0068	U	0.0068	0.0973		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.38	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.17	U	0.17	0.48		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.32		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: **SL-083-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-083-SA7-SS-0.0-0.5

LLI Sample # SW 6409794
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:45

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4605 SDG#: DE246-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11266SLF026	09/30/2011 02:45	Holly Berry	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLE026	09/29/2011 14:40	Mark A Clark	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11266SLE026	09/27/2011 11:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11266SLF026	09/27/2011 10:15	Roza S Goslawska	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670048A	09/29/2011 15:56	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112660021A	09/28/2011 02:17	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112660021A	09/28/2011 02:36	Melissa McDermott	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112650011A	09/23/2011 14:42	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112660021A	09/24/2011 06:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112650011A	09/22/2011 16:10	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670048A	09/28/2011 02:00	David V Hershey Jr	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112620030A	09/21/2011 04:12	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620011A	09/21/2011 03:14	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112650025A	09/24/2011 05:05	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112660005A	09/27/2011 13:32	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112660005A	09/23/2011 15:00	Wanda F Oswald	1
10303	Terphenyls soil prep	SW-846 3550B	1	112650025A	09/23/2011 08:10	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112620030A	09/19/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620011A	09/19/2011 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112635708002	09/28/2011 12:56	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112635708002	09/28/2011 12:56	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112635708002	09/28/2011 12:56	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112635708002	09/28/2011 12:56	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112635708002	09/28/2011 12:56	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112635708002	09/28/2011 12:56	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112635708002	09/28/2011 12:56	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112635708002	09/28/2011 12:56	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112635708002	09/28/2011 12:56	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112635708002	09/28/2011 12:56	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112635708002	09/28/2011 12:56	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112635708002	09/28/2011 12:56	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112635708002	09/28/2011 12:56	Joanne M Gates	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-083-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-083-SA7-SS-0.0-0.5

LLI Sample # SW 6409794
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:45

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4605 SDG#: DE246-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	112635708002	09/28/2011 12:56	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112631026002A	09/21/2011 08:25	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026002A	09/21/2011 08:25	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026002D	09/21/2011 08:25	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026002A	09/21/2011 08:25	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112631026002A	09/21/2011 08:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026002A	09/21/2011 08:25	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026002A	09/21/2011 08:25	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026002A	09/21/2011 08:25	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026002A	09/21/2011 08:25	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026002C	09/21/2011 08:25	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026002A	09/21/2011 08:25	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026002B	09/21/2011 08:25	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026002A	09/21/2011 08:25	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026002A	09/21/2011 08:25	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026002A	09/21/2011 08:25	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026002A	09/21/2011 08:25	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112635711003	09/21/2011 11:28	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708002	09/20/2011 22:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026002	09/20/2011 22:24	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711003	09/20/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11270621201A	09/28/2011 19:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11264264201A	09/23/2011 20:59	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11272243202A	10/01/2011 15:21	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11271102201A	09/28/2011 19:48	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11270621201A	09/27/2011 07:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11264264201A	09/21/2011 17:45	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11271102201A	09/28/2011 15:10	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11272039402A	09/29/2011 11:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11272243202A	09/29/2011 12:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11265162401B	09/22/2011 22:12	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-165-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-SA7-SS-0.0-0.5

LLI Sample # SW 6409795
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 12:10

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4606 SDG#: DE246-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	840	U	840	2,500		5
04688	Benzidine	92-87-5	5,800	U	5,800	17,000		5
04688	Benzoic acid	65-85-0	840	U	840	2,500		5
04688	Benzyl alcohol	100-51-6	840	U	840	2,500		5
04688	4-Bromophenyl-phenylether	101-55-3	84	U	84	840		5
04688	Carbazole	86-74-8	84	U	84	840		5
04688	4-Chloro-3-methylphenol	59-50-7	170	U	170	840		5
04688	4-Chloroaniline	106-47-8	330	U	330	840		5
04688	bis(2-Chloroethoxy)methane	111-91-1	84	U	84	840		5
04688	bis(2-Chloroethyl)ether	111-44-4	84	U	84	840		5
04688	bis(2-Chloroisopropyl)ether	39638-32-9	84	U	84	840		5
04688	2-Chloronaphthalene	91-58-7	84	U	84	840		5
04688	2-Chlorophenol	95-57-8	84	U	84	840		5
04688	4-Chlorophenyl-phenylether	7005-72-3	170	U	170	840		5
04688	Dibenzofuran	132-64-9	84	U	84	840		5
04688	1,2-Dichlorobenzene	95-50-1	84	U	84	840		5
04688	1,3-Dichlorobenzene	541-73-1	84	U	84	840		5
04688	1,4-Dichlorobenzene	106-46-7	84	U	84	840		5
04688	3,3'-Dichlorobenzidine	91-94-1	500	U	500	1,700		5
04688	2,4-Dichlorophenol	120-83-2	84	U	84	840		5
04688	2,4-Dimethylphenol	105-67-9	170	U	170	840		5
04688	3,5-Dimethylphenol	108-68-9	170	U	170	840		5
04688	4,6-Dinitro-2-methylphenol	534-52-1	840	U	840	2,500		5
04688	2,4-Dinitrophenol	51-28-5	1,700	U	1,700	5,000		5
04688	2,4-Dinitrotoluene	121-14-2	170	U	170	840		5
04688	2,6-Dinitrotoluene	606-20-2	84	U	84	840		5
04688	1,2-Diphenylhydrazine	122-66-7	84	U	84	840		5
04688	Hexachlorobenzene	118-74-1	84	U	84	840		5
04688	Hexachlorobutadiene	87-68-3	330	U	330	840		5
04688	Hexachlorocyclopentadiene	77-47-4	840	U	840	2,500		5
04688	Hexachloroethane	67-72-1	84	U	84	840		5
04688	Isophorone	78-59-1	84	U	84	840		5
04688	2-Methylphenol	95-48-7	170	U	170	840		5
04688	4-Methylphenol	106-44-5	170	U	170	840		5
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	84	U	84	840		5
04688	3-Nitroaniline	99-09-2	170	U	170	840		5
04688	4-Nitroaniline	100-01-6	330	U	330	840		5
04688	Nitrobenzene	98-95-3	84	U	84	840		5
04688	2-Nitrophenol	88-75-5	84	U	84	840		5
04688	4-Nitrophenol	100-02-7	840	U	840	2,500		5
04688	N-Nitroso-di-n-propylamine	621-64-7	84	U	84	840		5
04688	N-Nitrosodiphenylamine	86-30-6	84	U	84	840		5
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	840	U	840	2,500		5
04688	Phenol	108-95-2	84	U	84	840		5

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-165-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-SA7-SS-0.0-0.5

LLI Sample # SW 6409795
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 12:10

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4606 SDG#: DE246-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	840	U	840	840		5
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	84	U	84	840		5
04688	2,4,5-Trichlorophenol	95-95-4	170	U	170	840		5
04688	2,4,6-Trichlorophenol	88-06-2	170	U	170	840		5
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	6.7	U	6.7	17		10
10138	Acenaphthylene	208-96-8	3.4	U	3.4	17		10
10138	Anthracene	120-12-7	3.4	U	3.4	17		10
10138	Benzo(a)anthracene	56-55-3	12	J	6.7	17		10
10138	Benzo(a)pyrene	50-32-8	11	J	6.7	17		10
10138	Benzo(b)fluoranthene	205-99-2	32		6.7	17		10
10138	Benzo(g,h,i)perylene	191-24-2	11	J	6.7	17		10
10138	Benzo(k)fluoranthene	207-08-9	8.9	J	6.7	17		10
10138	Butylbenzylphthalate	85-68-7	61	U	61	180		10
10138	Di-n-butylphthalate	84-74-2	61	U	61	180		10
10138	Chrysene	218-01-9	40		3.4	17		10
10138	Dibenz(a,h)anthracene	53-70-3	6.7	U	6.7	17		10
10138	Diethylphthalate	84-66-2	61	U	61	180		10
10138	Dimethylphthalate	131-11-3	61	U	61	180		10
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	61	U	61	180		10
10138	Fluoranthene	206-44-0	24		6.7	17		10
10138	Fluorene	86-73-7	6.7	U	6.7	17		10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	6.7	U	6.7	17		10
10138	1-Methylnaphthalene	90-12-0	6.7	U	6.7	17		10
10138	2-Methylnaphthalene	91-57-6	6.7	U	6.7	17		10
10138	Naphthalene	91-20-3	6.7	U	6.7	17		10
10138	N-Nitrosodimethylamine	62-75-9	6.7	U	6.7	17		10
10138	Di-n-octylphthalate	117-84-0	61	U	61	180		10
10138	Phenanthrene	85-01-8	19		6.7	17		10
10138	Pyrene	129-00-0	29		6.7	17		10
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	0.62	U	0.62	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-165-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-SA7-SS-0.0-0.5

LLI Sample # SW 6409795
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 12:10

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4606 SDG#: DE246-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1
10401	MCPA	94-74-6	76	U	76	250		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.082	U	0.082	0.17		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	1.1	U	1.1	1.1		1
01363	p,p-DDE	72-55-9	0.20	U	0.20	0.34		1
01363	p,p-DDT	50-29-3	1.4	U	1.4	1.4		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.13	U	0.13	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.51	U	0.51	0.51		1
01363	Endosulfan Sulfate	1031-07-8	0.36		0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.091	U	0.091	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	1.4	U	1.4	1.7		1
01363	Mirex	2385-85-5	1.4	U	1.4	1.4		1
01363	Toxaphene	8001-35-2	36	U	36	36		1

Maintenance and a new calibration was performed prior to the analysis of the samples. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site.
Reporting limits were raised due to interference from the sample matrix.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	2.7	J	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.77	J	0.33	1.7		1
10225	PCB-1260	11096-82-5	0.89	J	0.39	1.7		1

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Sample Description: **SL-165-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-165-SA7-SS-0.0-0.5

LLI Sample # SW 6409795
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 12:10

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4606 SDG#: DE246-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	100	U	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.0	U	4.0	12		10
10199	EFH (C15-C20)	n.a.	6.7	J	4.0	12		10
10199	EFH (C21-C30)	n.a.	140		4.0	12		10
10199	EFH (C30 - C40)	n.a.	260		4.0	12		10
10199	EFH (C8-C11)	n.a.	4.0	U	4.0	12		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,900		5.99	19.8		1
07914	Boron	7440-42-8	0.356	U	0.356	4.95		1
01650	Calcium	7440-70-2	2,420		2.47	19.8		1
01654	Iron	7439-89-6	19,200		2.58	19.8		1
01656	Lithium	7439-93-2	25.7		0.61	2.0		1
01657	Magnesium	7439-95-4	4,300		0.435	9.90		1
06958	Manganese	7439-96-5	282		0.0356	0.495		1
10145	Phosphorus	7723-14-0	335		0.346	9.90		1
01662	Potassium	7440-09-7	3,090		11.2	49.5		1
01667	Sodium	7440-23-5	70.2	J	5.89	99.0		1
07968	Strontium	7440-24-6	9.35		0.0247	0.495		1
06969	Tin	7440-31-5	2.91	J	0.317	9.90		1
06970	Titanium	7440-32-6	1,120		0.0703	0.990		1
10146	Zirconium	7440-67-7	1.19	J	0.455	4.95		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.688		0.0732	0.198		2

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Sample Description: **SL-165-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-165-SA7-SS-0.0-0.5

LLI Sample # SW 6409795
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 12:10

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4606 SDG#: DE246-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.81		0.0792	0.396		2
06126	Barium	7440-39-3	167		0.105	0.396		2
06127	Beryllium	7440-41-7	0.596		0.0158	0.0990		2
06128	Cadmium	7440-43-9	0.950		0.0435	0.0990		2
06131	Chromium	7440-47-3	59.2		0.119	0.396		2
06132	Cobalt	7440-48-4	10.3		0.0198	0.0990		2
06133	Copper	7440-50-8	18.8		0.0792	0.396		2
06135	Lead	7439-92-1	7.95		0.0505	0.990		10
06138	Molybdenum	7439-98-7	1.00		0.0495	0.0990		2
06139	Nickel	7440-02-0	23.0		0.0990	0.396		2
06141	Selenium	7782-49-2	0.178	J	0.0574	0.396		2
06142	Silver	7440-22-4	0.0806	J	0.0141	0.0990		2
06145	Thallium	7440-28-0	0.369		0.0297	0.0990		2
06148	Vanadium	7440-62-2	44.6		0.0218	0.0990		2
06149	Zinc	7440-66-6	80.5		2.77	14.8		10
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0069	U	0.0069	0.0980		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	0.99		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.42		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.94		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-165-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-SA7-SS-0.0-0.5

LLI Sample # SW 6409795
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 12:10

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4606 SDG#: DE246-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11266SLF026	09/30/2011 03:09	Holly Berry	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLE026	09/29/2011 23:00	Gregory J Drahovsky	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11266SLE026	09/27/2011 11:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11266SLF026	09/27/2011 10:15	Roza S Goslawska	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670048A	09/29/2011 16:24	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112660021A	09/28/2011 03:14	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112650011A	09/23/2011 15:00	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112660021A	09/24/2011 06:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112650011A	09/22/2011 16:10	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670048A	09/28/2011 02:00	David V Hershey Jr	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112620030A	09/21/2011 04:27	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620011A	09/21/2011 03:27	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112650025A	09/24/2011 01:03	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112660005A	09/27/2011 13:56	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112660005A	09/23/2011 15:00	Wanda F Oswald	1
10303	Terphenyls soil prep	SW-846 3550B	1	112650025A	09/23/2011 08:10	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112620030A	09/19/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620011A	09/19/2011 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112635708002	09/28/2011 13:00	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112635708002	09/28/2011 13:00	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112635708002	09/28/2011 13:00	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112635708002	09/28/2011 13:00	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112635708002	09/28/2011 13:00	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112635708002	09/28/2011 13:00	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112635708002	09/28/2011 13:00	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112635708002	09/28/2011 13:00	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112635708002	09/28/2011 13:00	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112635708002	09/28/2011 13:00	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112635708002	09/28/2011 13:00	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112635708002	09/28/2011 13:00	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112635708002	09/28/2011 13:00	Joanne M Gates	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-165-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-SA7-SS-0.0-0.5

LLI Sample # SW 6409795
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 12:10

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E4606 SDG#: DE246-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	112635708002	09/28/2011 13:00	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112631026002A	09/21/2011 08:28	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026002A	09/21/2011 08:28	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026002D	09/21/2011 08:28	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026002A	09/21/2011 08:28	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112631026002A	09/21/2011 08:28	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026002A	09/21/2011 08:28	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026002A	09/21/2011 08:28	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026002A	09/21/2011 08:28	Choon Y Tian	2
06135	Lead	SW-846 6020	3	112631026002A	09/23/2011 14:58	Choon Y Tian	10
06138	Molybdenum	SW-846 6020	1	112631026002C	09/21/2011 08:28	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026002A	09/21/2011 08:28	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026002B	09/21/2011 08:28	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026002A	09/21/2011 08:28	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026002A	09/21/2011 08:28	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026002A	09/21/2011 08:28	Choon Y Tian	2
06149	Zinc	SW-846 6020	3	112631026002A	09/23/2011 14:58	Choon Y Tian	10
00159	Mercury	SW-846 7471A	1	112635711003	09/21/2011 11:30	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708002	09/20/2011 22:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026002	09/20/2011 22:24	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711003	09/20/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11270621201A	09/28/2011 20:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11264264201A	09/23/2011 21:22	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11272243202A	10/01/2011 10:32	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11271102201A	09/28/2011 19:49	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11270621201A	09/27/2011 07:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11264264201A	09/21/2011 17:45	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11271102201A	09/28/2011 15:10	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11272039402A	09/29/2011 11:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11272243202A	09/29/2011 12:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11265162401B	09/22/2011 22:12	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-022-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA7-SS-0.0-0.5

LLI Sample # SW 6409796
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:40

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4607 SDG#: DE246-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	840	U	840	2,500		5
04688	Benzidine	92-87-5	5,900	U	5,900	17,000		5
04688	Benzo(g,h,i)perylene	191-24-2	190	J	84	840		5
04688	Benzoic acid	65-85-0	840	U	840	2,500		5
04688	Benzyl alcohol	100-51-6	840	U	840	2,500		5
04688	4-Bromophenyl-phenylether	101-55-3	84	U	84	840		5
04688	Carbazole	86-74-8	84	U	84	840		5
04688	4-Chloro-3-methylphenol	59-50-7	170	U	170	840		5
04688	4-Chloroaniline	106-47-8	340	U	340	840		5
04688	bis(2-Chloroethoxy)methane	111-91-1	84	U	84	840		5
04688	bis(2-Chloroethyl)ether	111-44-4	84	U	84	840		5
04688	bis(2-Chloroisopropyl)ether	39638-32-9	84	U	84	840		5
04688	2-Chloronaphthalene	91-58-7	84	U	84	840		5
04688	2-Chlorophenol	95-57-8	84	U	84	840		5
04688	4-Chlorophenyl-phenylether	7005-72-3	170	U	170	840		5
04688	Dibenzofuran	132-64-9	84	U	84	840		5
04688	1,2-Dichlorobenzene	95-50-1	84	U	84	840		5
04688	1,3-Dichlorobenzene	541-73-1	84	U	84	840		5
04688	1,4-Dichlorobenzene	106-46-7	84	U	84	840		5
04688	3,3'-Dichlorobenzidine	91-94-1	500	U	500	1,700		5
04688	2,4-Dichlorophenol	120-83-2	84	U	84	840		5
04688	2,4-Dimethylphenol	105-67-9	170	U	170	840		5
04688	3,5-Dimethylphenol	108-68-9	170	U	170	840		5
04688	4,6-Dinitro-2-methylphenol	534-52-1	840	U	840	2,500		5
04688	2,4-Dinitrophenol	51-28-5	1,700	U	1,700	5,000		5
04688	2,4-Dinitrotoluene	121-14-2	170	U	170	840		5
04688	2,6-Dinitrotoluene	606-20-2	84	U	84	840		5
04688	1,2-Diphenylhydrazine	122-66-7	84	U	84	840		5
04688	bis(2-Ethylhexyl)phthalate	117-81-7	360	J	84	1,700		5
04688	Hexachlorobenzene	118-74-1	84	U	84	840		5
04688	Hexachlorobutadiene	87-68-3	340	U	340	840		5
04688	Hexachlorocyclopentadiene	77-47-4	840	U	840	2,500		5
04688	Hexachloroethane	67-72-1	84	U	84	840		5
04688	Indeno(1,2,3-cd)pyrene	193-39-5	160	J	84	840		5
04688	Isophorone	78-59-1	84	U	84	840		5
04688	2-Methylphenol	95-48-7	170	U	170	840		5
04688	4-Methylphenol	106-44-5	170	U	170	840		5
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	84	U	84	840		5
04688	3-Nitroaniline	99-09-2	170	U	170	840		5
04688	4-Nitroaniline	100-01-6	340	U	340	840		5
04688	Nitrobenzene	98-95-3	84	U	84	840		5
04688	2-Nitrophenol	88-75-5	84	U	84	840		5
04688	4-Nitrophenol	100-02-7	840	U	840	2,500		5
04688	N-Nitroso-di-n-propylamine	621-64-7	84	U	84	840		5
04688	N-Nitrosodiphenylamine	86-30-6	84	U	84	840		5

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-022-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA7-SS-0.0-0.5

LLI Sample # SW 6409796
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:40

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4607 SDG#: DE246-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	840	U	840	2,500		5
04688	Phenol	108-95-2	84	U	84	840		5
04688	Tetralin	119-64-2	840	U	840	840		5
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	84	U	84	840		5
04688	2,4,5-Trichlorophenol	95-95-4	170	U	170	840		5
04688	2,4,6-Trichlorophenol	88-06-2	170	U	170	840		5
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	15	J	6.7	17		10
10138	Acenaphthylene	208-96-8	3.4	U	3.4	17		10
10138	Anthracene	120-12-7	29		3.4	17		10
10138	Benzo(a)anthracene	56-55-3	240		6.7	17		10
10138	Benzo(a)pyrene	50-32-8	290		6.7	17		10
10138	Benzo(b)fluoranthene	205-99-2	490		6.7	17		10
10138	Benzo(k)fluoranthene	207-08-9	250		6.7	17		10
10138	Butylbenzylphthalate	85-68-7	61	U	61	180		10
10138	Di-n-butylphthalate	84-74-2	79	J	61	180		10
10138	Chrysene	218-01-9	280		3.4	17		10
10138	Dibenz(a,h)anthracene	53-70-3	25		6.7	17		10
10138	Diethylphthalate	84-66-2	61	U	61	180		10
10138	Dimethylphthalate	131-11-3	61	U	61	180		10
10138	Fluoranthene	206-44-0	560		6.7	17		10
10138	Fluorene	86-73-7	11	J	6.7	17		10
10138	1-Methylnaphthalene	90-12-0	6.7	U	6.7	17		10
10138	2-Methylnaphthalene	91-57-6	6.7	U	6.7	17		10
10138	Naphthalene	91-20-3	6.7	U	6.7	17		10
10138	N-Nitrosodimethylamine	62-75-9	6.7	U	6.7	17		10
10138	Di-n-octylphthalate	117-84-0	61	U	61	180		10
10138	Phenanthrene	85-01-8	230		6.7	17		10
10138	Pyrene	129-00-0	530		6.7	17		10
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	1.4	U	1.4	1.7		1

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Sample Description: SL-022-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA7-SS-0.0-0.5

LLI Sample # SW 6409796
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:40

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4607 SDG#: DE246-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	Dicamba	1918-00-9	0.42	U	0.42	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	83	U	83	250		1
10401	2,4,5-T	93-76-5	0.17	U	0.17	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.10	J	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.45	U	0.45	0.45		1
01363	Chlordane	57-74-9	6.0		0.81	3.4		1
01363	p,p-DDD	72-54-8	0.33	U	0.33	1.7		5
01363	p,p-DDE	72-55-9	0.91	U	0.91	0.91		1
01363	p,p-DDT	50-29-3	2.8		0.33	1.7		5
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.83	U	0.83	0.83		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.43	U	0.43	0.43		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.24	U	0.24	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.75	U	0.75	0.75		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.12	U	0.12	0.17		1
01363	Methoxychlor	72-43-5	1.7	U	1.7	1.7		1
01363	Mirex	2385-85-5	0.39	U	0.39	0.39		1
01363	Toxaphene	8001-35-2	41	U	41	41		1

Maintenance and a new calibration was performed prior to the analysis of the samples. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site.
Reporting limits were raised due to interference from the sample matrix.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	5.0	U	5.0	17		5
10225	Aroclor 5442	12642-23-8	5.0	U	5.0	17		5
10225	Aroclor 5460	11126-42-4	27		5.0	17		5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.6		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.6		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.6		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.6		5

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Sample Description: **SL-022-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA7-SS-0.0-0.5

LLI Sample # SW 6409796
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:40

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4607 SDG#: DE246-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.6		5
10225	PCB-1254	11097-69-1	36		1.7	8.6		5
10225	PCB-1260	11096-82-5	35		2.0	8.6		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.6		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.6		5
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	100	U	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.3	U	4.3	13		5
10199	EFH (C15-C20)	n.a.	4.3	U	4.3	13		5
10199	EFH (C21-C30)	n.a.	69		4.3	13		5
10199	EFH (C30 - C40)	n.a.	190		4.3	13		5
10199	EFH (C8-C11)	n.a.	6.9	J	4.3	13		5
	Reporting limits were raised due to limited sample volume.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,500		6.10	20.2		1
07914	Boron	7440-42-8	0.363	U	0.363	5.04		1
01650	Calcium	7440-70-2	1,910		2.52	20.2		1
01654	Iron	7439-89-6	18,500		2.63	20.2		1
01656	Lithium	7439-93-2	19.8		0.63	2.0		1
01657	Magnesium	7439-95-4	3,110		0.444	10.1		1
06958	Manganese	7439-96-5	190		0.0363	0.504		1
10145	Phosphorus	7723-14-0	342		0.353	10.1		1
01662	Potassium	7440-09-7	2,480		11.4	50.4		1
01667	Sodium	7440-23-5	74.3	J	6.00	101		1
07968	Strontium	7440-24-6	9.62		0.0252	0.504		1
06969	Tin	7440-31-5	3.17	J	0.323	10.1		1
06970	Titanium	7440-32-6	937		0.0716	1.01		1
10146	Zirconium	7440-67-7	1.08	J	0.464	5.04		1

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Sample Description: **SL-022-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA7-SS-0.0-0.5

LLI Sample # SW 6409796
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:40

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4607 SDG#: DE246-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.447	0.0732	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.14	0.0791	0.395		2
06126	Barium	7440-39-3	80.8	0.105	0.395		2
06127	Beryllium	7440-41-7	0.549	0.0158	0.0989		2
06128	Cadmium	7440-43-9	1.71	0.0435	0.0989		2
06131	Chromium	7440-47-3	32.3	0.119	0.395		2
06132	Cobalt	7440-48-4	5.34	0.0198	0.0989		2
06133	Copper	7440-50-8	15.4	0.0791	0.395		2
06135	Lead	7439-92-1	115	0.101	1.98		20
06138	Molybdenum	7439-98-7	1.24	0.0494	0.0989		2
06139	Nickel	7440-02-0	17.7	0.0989	0.395		2
06141	Selenium	7782-49-2	0.0981 J	0.0573	0.395		2
06142	Silver	7440-22-4	0.225	0.0140	0.0989		2
06145	Thallium	7440-28-0	0.274	0.0297	0.0989		2
06148	Vanadium	7440-62-2	34.6	0.0218	0.0989		2
06149	Zinc	7440-66-6	934	5.54	29.7		20
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0672 J	0.0070	0.0995		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81 U	0.81	1.0		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1 U	9.1	30.3		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1	0.20	1.0		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18 U	0.18	0.49		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.96	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.84	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-022-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA7-SS-0.0-0.5

LLI Sample # SW 6409796
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:40

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4607 SDG#: DE246-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11266SLF026	09/30/2011 03:34	Holly Berry	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLE026	09/29/2011 15:47	Mark A Clark	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11266SLE026	09/27/2011 11:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11266SLF026	09/27/2011 10:15	Roza S Goslawska	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670048A	09/29/2011 17:47	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112660021A	09/28/2011 03:51	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112660021A	09/28/2011 04:10	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112650011A	09/23/2011 15:19	Jamie L Brillhart	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112660021A	09/24/2011 06:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112650011A	09/22/2011 16:10	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670048A	09/28/2011 02:00	David V Hershey Jr	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112640035A	09/22/2011 22:34	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620011A	09/21/2011 03:40	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112650025A	09/24/2011 01:25	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112660005A	09/27/2011 12:44	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112660005A	09/23/2011 15:00	Wanda F Oswald	1
10303	Terphenyls soil prep	SW-846 3550B	1	112650025A	09/23/2011 08:10	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112640035A	09/22/2011 19:00	Elizabeth J Marin	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112620030A	09/19/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620011A	09/19/2011 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112635708002	09/28/2011 13:04	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112635708002	09/28/2011 13:04	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112635708002	09/28/2011 13:04	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112635708002	09/28/2011 13:04	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112635708002	09/28/2011 13:04	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112635708002	09/28/2011 13:04	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112635708002	09/28/2011 13:04	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112635708002	09/28/2011 13:04	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112635708002	09/28/2011 13:04	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112635708002	09/28/2011 13:04	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112635708002	09/28/2011 13:04	Joanne M Gates	1

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Sample Description: **SL-022-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA7-SS-0.0-0.5

LLI Sample # SW 6409796
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:40

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4607 SDG#: DE246-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112635708002	09/28/2011 13:04	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112635708002	09/28/2011 13:04	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112635708002	09/28/2011 13:04	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112631026002A	09/21/2011 08:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026002A	09/21/2011 08:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026002D	09/21/2011 08:31	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026002A	09/21/2011 08:31	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112631026002A	09/21/2011 08:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026002A	09/21/2011 08:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026002A	09/21/2011 08:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026002A	09/21/2011 08:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026002A	09/21/2011 09:12	Choon Y Tian	20
06138	Molybdenum	SW-846 6020	1	112631026002C	09/21/2011 08:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026002A	09/21/2011 08:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026002B	09/21/2011 08:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026002A	09/21/2011 08:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026002A	09/21/2011 08:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026002A	09/21/2011 08:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026002A	09/21/2011 09:12	Choon Y Tian	20
00159	Mercury	SW-846 7471A	1	112635711003	09/21/2011 11:31	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708002	09/20/2011 22:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026002	09/20/2011 22:24	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711003	09/20/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11270621201A	09/28/2011 20:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11264264201A	09/23/2011 21:45	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11272243202A	10/01/2011 10:52	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11271102201A	09/28/2011 20:30	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11270621201A	09/27/2011 07:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11264264201A	09/21/2011 17:45	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11271102201A	09/28/2011 15:10	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11272039402A	09/29/2011 11:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11272243202A	09/29/2011 12:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11265162401B	09/22/2011 22:12	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-054-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA7-SS-0.0-0.5

LLI Sample # SW 6409797
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:00

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4608 SDG#: DE246-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	165	U	165	330		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	830	U	830	2,500		5
04688	Benzidine	92-87-5	5,800	U	5,800	17,000		5
04688	Benzo(b)fluoranthene	205-99-2	220	J	83	830		5
04688	Benzoic acid	65-85-0	830	U	830	2,500		5
04688	Benzyl alcohol	100-51-6	830	U	830	2,500		5
04688	4-Bromophenyl-phenylether	101-55-3	83	U	83	830		5
04688	Carbazole	86-74-8	83	U	83	830		5
04688	4-Chloro-3-methylphenol	59-50-7	170	U	170	830		5
04688	4-Chloroaniline	106-47-8	330	U	330	830		5
04688	bis(2-Chloroethoxy)methane	111-91-1	83	U	83	830		5
04688	bis(2-Chloroethyl)ether	111-44-4	83	U	83	830		5
04688	bis(2-Chloroisopropyl)ether	39638-32-9	83	U	83	830		5
04688	2-Chloronaphthalene	91-58-7	83	U	83	830		5
04688	2-Chlorophenol	95-57-8	83	U	83	830		5
04688	4-Chlorophenyl-phenylether	7005-72-3	170	U	170	830		5
04688	Chrysene	218-01-9	270	J	83	830		5
04688	Dibenzofuran	132-64-9	83	U	83	830		5
04688	1,2-Dichlorobenzene	95-50-1	83	U	83	830		5
04688	1,3-Dichlorobenzene	541-73-1	83	U	83	830		5
04688	1,4-Dichlorobenzene	106-46-7	83	U	83	830		5
04688	3,3'-Dichlorobenzidine	91-94-1	500	U	500	1,700		5
04688	2,4-Dichlorophenol	120-83-2	83	U	83	830		5
04688	2,4-Dimethylphenol	105-67-9	170	U	170	830		5
04688	3,5-Dimethylphenol	108-68-9	170	U	170	830		5
04688	4,6-Dinitro-2-methylphenol	534-52-1	830	U	830	2,500		5
04688	2,4-Dinitrophenol	51-28-5	1,700	U	1,700	5,000		5
04688	2,4-Dinitrotoluene	121-14-2	170	U	170	830		5
04688	2,6-Dinitrotoluene	606-20-2	83	U	83	830		5
04688	1,2-Diphenylhydrazine	122-66-7	83	U	83	830		5
04688	Fluoranthene	206-44-0	870		83	830		5
04688	Hexachlorobenzene	118-74-1	83	U	83	830		5
04688	Hexachlorobutadiene	87-68-3	330	U	330	830		5
04688	Hexachlorocyclopentadiene	77-47-4	830	U	830	2,500		5
04688	Hexachloroethane	67-72-1	83	U	83	830		5
04688	Isophorone	78-59-1	83	U	83	830		5
04688	2-Methylphenol	95-48-7	170	U	170	830		5
04688	4-Methylphenol	106-44-5	170	U	170	830		5
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	83	U	83	830		5
04688	3-Nitroaniline	99-09-2	170	U	170	830		5
04688	4-Nitroaniline	100-01-6	330	U	330	830		5
04688	Nitrobenzene	98-95-3	83	U	83	830		5
04688	2-Nitrophenol	88-75-5	83	U	83	830		5
04688	4-Nitrophenol	100-02-7	830	U	830	2,500		5

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Sample Description: **SL-054-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA7-SS-0.0-0.5

LLI Sample # SW 6409797
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:00

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4608 SDG#: DE246-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitroso-di-n-propylamine	621-64-7	83	U	83	830		5
04688	N-Nitrosodiphenylamine	86-30-6	83	U	83	830		5
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	830	U	830	2,500		5
04688	Phenanthrene	85-01-8	530	J	83	830		5
04688	Phenol	108-95-2	83	U	83	830		5
04688	Pyrene	129-00-0	610	J	83	830		5
04688	Tetralin	119-64-2	830	U	830	830		5
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	83	U	83	830		5
04688	2,4,5-Trichlorophenol	95-95-4	170	U	170	830		5
04688	2,4,6-Trichlorophenol	88-06-2	170	U	170	830		5
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	6.7	U	6.7	17		10
10138	Acenaphthylene	208-96-8	3.4	U	3.4	17		10
10138	Anthracene	120-12-7	7.5	J	3.4	17		10
10138	Benzo(a)anthracene	56-55-3	29		6.7	17		10
10138	Benzo(a)pyrene	50-32-8	30		6.7	17		10
10138	Benzo(g,h,i)perylene	191-24-2	20		6.7	17		10
10138	Benzo(k)fluoranthene	207-08-9	33		6.7	17		10
10138	Butylbenzylphthalate	85-68-7	60	U	60	180		10
10138	Di-n-butylphthalate	84-74-2	60	U	60	180		10
10138	Dibenz(a,h)anthracene	53-70-3	6.7	U	6.7	17		10
10138	Diethylphthalate	84-66-2	60	U	60	180		10
10138	Dimethylphthalate	131-11-3	60	U	60	180		10
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	700		60	180		10
10138	Fluorene	86-73-7	6.7	U	6.7	17		10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	17		6.7	17		10
10138	1-Methylnaphthalene	90-12-0	6.7	U	6.7	17		10
10138	2-Methylnaphthalene	91-57-6	6.7	U	6.7	17		10
10138	Naphthalene	91-20-3	6.7	U	6.7	17		10
10138	N-Nitrosodimethylamine	62-75-9	6.7	U	6.7	17		10
10138	Di-n-octylphthalate	117-84-0	60	U	60	180		10
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: **SL-054-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA7-SS-0.0-0.5

LLI Sample # SW 6409797
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:00

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4608 SDG#: DE246-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	60	U	60	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	40	U	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	40	U	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	40	U	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	40	U	40	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	40	U	40	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	50	U	50	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	40	U	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	40	U	40	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	1.4	U	1.4	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.12	U	0.12	0.17		1
10401	2,4,5-TP	93-72-1	0.091	U	0.091	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does

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Sample Description: **SL-054-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA7-SS-0.0-0.5

LLI Sample # SW 6409797
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:00

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4608 SDG#: DE246-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	690	J	600	1,500		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.33	U	0.33	0.84		5
01363	Alpha BHC	319-84-6	0.17	U	0.17	0.84		5
01363	Beta BHC	319-85-7	0.30	U	0.30	0.84		5
01363	Gamma BHC - Lindane	58-89-9	0.17	U	0.17	0.84		5
01363	Chlordane	57-74-9	4.9	J	4.0	17		5
01363	p,p-DDD	72-54-8	0.51	U	0.51	1.7		5
01363	p,p-DDE	72-55-9	1.9	U	1.9	1.9		5
01363	p,p-DDT	50-29-3	6.7		0.33	1.7		5
01363	Delta BHC	319-86-8	0.18	U	0.18	0.84		5
01363	Dieldrin	60-57-1	0.33	U	0.33	1.7		5
01363	Endosulfan I	959-98-8	0.22	U	0.22	0.84		5
01363	Endosulfan II	33213-65-9	0.33	U	0.33	1.7		5
01363	Endosulfan Sulfate	1031-07-8	0.33	U	0.33	1.7		5
01363	Endrin	72-20-8	0.33	U	0.33	1.7		5
01363	Endrin Aldehyde	7421-93-4	1.6	U	1.6	1.7		5
01363	Endrin Ketone	53494-70-5	1.9	U	1.9	1.9		5
01363	Heptachlor	76-44-8	0.30	U	0.30	0.84		5
01363	Heptachlor Epoxide	1024-57-3	0.43	U	0.43	0.84		5
01363	Methoxychlor	72-43-5	4.4	U	4.4	8.4		5
01363	Mirex	2385-85-5	4.4	U	4.4	4.4		5
01363	Toxaphene	8001-35-2	11	U	11	33		5
	Maintenance and a new calibration was performed prior to the analysis of the samples. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	34		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	17		0.33	1.7		1
10225	PCB-1260	11096-82-5	15		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1

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Sample Description: **SL-054-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA7-SS-0.0-0.5

LLI Sample # SW 6409797
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:00

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4608 SDG#: DE246-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Methanol	67-56-1	100	U	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	8.0	U	8.0	24		20
10199	EFH (C15-C20)	n.a.	8.3	J	8.0	24		20
10199	EFH (C21-C30)	n.a.	240		8.0	24		20
10199	EFH (C30 - C40)	n.a.	680		8.0	24		20
10199	EFH (C8-C11)	n.a.	8.0	U	8.0	24		20
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,800		6.10	20.2		1
07914	Boron	7440-42-8	0.985	J	0.363	5.04		1
01650	Calcium	7440-70-2	3,120		2.52	20.2		1
01654	Iron	7439-89-6	20,200		2.63	20.2		1
01656	Lithium	7439-93-2	25.3		0.62	2.0		1
01657	Magnesium	7439-95-4	6,530		0.443	10.1		1
06958	Manganese	7439-96-5	289		0.0363	0.504		1
10145	Phosphorus	7723-14-0	453		0.353	10.1		1
01662	Potassium	7440-09-7	3,970		11.4	50.4		1
01667	Sodium	7440-23-5	103		6.00	101		1
07968	Strontium	7440-24-6	12.0		0.0252	0.504		1
06969	Tin	7440-31-5	3.28	J	0.323	10.1		1
06970	Titanium	7440-32-6	1,230		0.0716	1.01		1
10146	Zirconium	7440-67-7	1.12	J	0.464	5.04		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.242		0.0738	0.200		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.41		0.0798	0.399		2
06126	Barium	7440-39-3	101		0.106	0.399		2
06127	Beryllium	7440-41-7	0.609		0.0160	0.0998		2
06128	Cadmium	7440-43-9	0.182		0.0439	0.0998		2

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Sample Description: SL-054-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA7-SS-0.0-0.5

LLI Sample # SW 6409797
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:00

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4608 SDG#: DE246-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	18.8	0.120	0.399		2
06132	Cobalt	7440-48-4	6.73	0.0200	0.0998		2
06133	Copper	7440-50-8	8.31	0.0798	0.399		2
06135	Lead	7439-92-1	9.61	0.0102	0.200		2
06138	Molybdenum	7439-98-7	0.353	0.0499	0.0998		2
06139	Nickel	7440-02-0	11.9	0.0998	0.399		2
06141	Selenium	7782-49-2	0.150 J	0.0579	0.399		2
06142	Silver	7440-22-4	0.0142 U	0.0142	0.0998		2
06145	Thallium	7440-28-0	0.335	0.0299	0.0998		2
06148	Vanadium	7440-62-2	38.1	0.0220	0.0998		2
06149	Zinc	7440-66-6	92.1	0.559	2.99		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0156 J	0.0069	0.0984		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	10.7	0.81	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	10.4	0.81	1.5		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1 U	9.1	30.2		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.3	0.20	1.0		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18 U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.98	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.78	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-054-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA7-SS-0.0-0.5

LLI Sample # SW 6409797
LLI Group # 1267000
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Project Name: SSFL Area IV Collocated Soil Sampling

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E4608 SDG#: DE246-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11265SLB026	09/29/2011 18:49	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11266SLF026	09/30/2011 03:59	Holly Berry	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLE026	09/29/2011 23:33	Gregory J Drahovsky	10
11630	NDMA Soil Microwave	SW-846 3546	1	11265SLB026	09/23/2011 10:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11266SLE026	09/27/2011 11:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11266SLF026	09/27/2011 10:15	Roza S Goslawska	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112640025A	09/24/2011 10:50	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112620004A	09/21/2011 21:03	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670048A	09/29/2011 18:14	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112660021A	09/28/2011 04:29	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112650011A	09/23/2011 15:38	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112660021A	09/24/2011 06:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112650011A	09/22/2011 16:10	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670048A	09/28/2011 02:00	David V Hershey Jr	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112620004A	09/19/2011 17:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112640025A	09/22/2011 11:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112620030A	09/21/2011 04:57	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620011A	09/21/2011 03:53	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112650025A	09/24/2011 05:27	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112660005A	09/27/2011 18:43	Heather E Williams	20
11238	EFH Extraction - Soils	SW-846 3550B	1	112660005A	09/23/2011 15:00	Wanda F Oswald	1
10303	Terphenyls soil prep	SW-846 3550B	1	112650025A	09/23/2011 08:10	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112620030A	09/19/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620011A	09/19/2011 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112635708002	09/28/2011 13:08	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112635708002	09/28/2011 13:08	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112635708002	09/28/2011 13:08	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112635708002	09/28/2011 13:08	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112635708002	09/28/2011 13:08	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112635708002	09/28/2011 13:08	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112635708002	09/28/2011 13:08	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112635708002	09/28/2011 13:08	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112635708002	09/28/2011 13:08	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112635708002	09/28/2011 13:08	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112635708002	09/28/2011 13:08	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112635708002	09/28/2011 13:08	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112635708002	09/28/2011 13:08	Joanne M Gates	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-054-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA7-SS-0.0-0.5

LLI Sample # SW 6409797
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:00

Submitted: 09/17/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E4608 SDG#: DE246-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	112635708002	09/28/2011 13:08	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112631026002A	09/21/2011 08:34	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026002A	09/21/2011 08:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026002D	09/21/2011 08:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026002A	09/21/2011 08:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112631026002A	09/21/2011 08:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026002A	09/21/2011 08:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026002A	09/21/2011 08:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026002A	09/21/2011 08:34	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026002A	09/21/2011 08:34	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026002C	09/21/2011 08:34	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026002A	09/21/2011 08:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026002B	09/21/2011 08:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026002A	09/21/2011 08:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026002A	09/21/2011 08:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026002A	09/21/2011 08:34	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112631026002A	09/21/2011 08:34	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112635711003	09/21/2011 11:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708002	09/20/2011 22:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026002	09/20/2011 22:24	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711003	09/20/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11270621201A	09/28/2011 18:02	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11270621201A	09/28/2011 18:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11264264201A	09/23/2011 22:08	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11272243202A	10/01/2011 11:19	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11271102201A	09/28/2011 20:31	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11270621201A	09/27/2011 07:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11264264201A	09/21/2011 17:45	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11271102201A	09/28/2011 15:10	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11272039402A	09/29/2011 11:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11272243202A	09/29/2011 12:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11272162401B	09/29/2011 21:46	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-100-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-100-SA7-SS-0.0-0.5

LLI Sample # SW 6409798
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:15

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4609 SDG#: DE246-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	830	U	830	2,500		5
04688	Benzidine	92-87-5	5,800	U	5,800	17,000		5
04688	Benzoic acid	65-85-0	830	U	830	2,500		5
04688	Benzyl alcohol	100-51-6	830	U	830	2,500		5
04688	4-Bromophenyl-phenylether	101-55-3	83	U	83	830		5
04688	Carbazole	86-74-8	83	U	83	830		5
04688	4-Chloro-3-methylphenol	59-50-7	170	U	170	830		5
04688	4-Chloroaniline	106-47-8	330	U	330	830		5
04688	bis(2-Chloroethoxy)methane	111-91-1	83	U	83	830		5
04688	bis(2-Chloroethyl)ether	111-44-4	83	U	83	830		5
04688	bis(2-Chloroisopropyl)ether	39638-32-9	83	U	83	830		5
04688	2-Chloronaphthalene	91-58-7	83	U	83	830		5
04688	2-Chlorophenol	95-57-8	83	U	83	830		5
04688	4-Chlorophenyl-phenylether	7005-72-3	170	U	170	830		5
04688	Dibenzofuran	132-64-9	83	U	83	830		5
04688	1,2-Dichlorobenzene	95-50-1	83	U	83	830		5
04688	1,3-Dichlorobenzene	541-73-1	83	U	83	830		5
04688	1,4-Dichlorobenzene	106-46-7	83	U	83	830		5
04688	3,3'-Dichlorobenzidine	91-94-1	500	U	500	1,700		5
04688	2,4-Dichlorophenol	120-83-2	83	U	83	830		5
04688	2,4-Dimethylphenol	105-67-9	170	U	170	830		5
04688	3,5-Dimethylphenol	108-68-9	170	U	170	830		5
04688	4,6-Dinitro-2-methylphenol	534-52-1	830	U	830	2,500		5
04688	2,4-Dinitrophenol	51-28-5	1,700	U	1,700	5,000		5
04688	2,4-Dinitrotoluene	121-14-2	170	U	170	830		5
04688	2,6-Dinitrotoluene	606-20-2	83	U	83	830		5
04688	1,2-Diphenylhydrazine	122-66-7	83	U	83	830		5
04688	Hexachlorobenzene	118-74-1	83	U	83	830		5
04688	Hexachlorobutadiene	87-68-3	330	U	330	830		5
04688	Hexachlorocyclopentadiene	77-47-4	830	U	830	2,500		5
04688	Hexachloroethane	67-72-1	83	U	83	830		5
04688	Isophorone	78-59-1	83	U	83	830		5
04688	2-Methylphenol	95-48-7	170	U	170	830		5
04688	4-Methylphenol	106-44-5	170	U	170	830		5
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	83	U	83	830		5
04688	3-Nitroaniline	99-09-2	170	U	170	830		5
04688	4-Nitroaniline	100-01-6	330	U	330	830		5
04688	Nitrobenzene	98-95-3	83	U	83	830		5
04688	2-Nitrophenol	88-75-5	83	U	83	830		5
04688	4-Nitrophenol	100-02-7	830	U	830	2,500		5
04688	N-Nitroso-di-n-propylamine	621-64-7	83	U	83	830		5
04688	N-Nitrosodiphenylamine	86-30-6	83	U	83	830		5
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	830	U	830	2,500		5
04688	Phenol	108-95-2	83	U	83	830		5

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SSFL Area IV Collocated Soil Sampling
SL-100-SA7-SS-0.0-0.5

LLI Sample # SW 6409798
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:15

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4609 SDG#: DE246-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	830	U	830	830		5
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	83	U	83	830		5
04688	2,4,5-Trichlorophenol	95-95-4	170	U	170	830		5
04688	2,4,6-Trichlorophenol	88-06-2	170	U	170	830		5
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.60	J	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	3.6		0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	4.2		0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	10		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	2.6		0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	2.9		0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	9.2		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.88	J	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J	6.0	18		1
10138	Fluoranthene	206-44-0	12		0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.1		0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	5.4		0.67	1.7		1
10138	Pyrene	129-00-0	10		0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	5.0		0.62	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1

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SSFL Area IV Collocated Soil Sampling
SL-100-SA7-SS-0.0-0.5

LLI Sample # SW 6409798
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:15

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4609 SDG#: DE246-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	MCPA	94-74-6	76	U	76	250		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.082	U	0.082	0.17		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.39	U	0.39	0.39		1
01363	p,p-DDE	72-55-9	0.30	U	0.30	0.34		1
01363	p,p-DDT	50-29-3	0.97		0.066	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.066	U	0.066	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.20	U	0.20	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34		1
01363	Endrin	72-20-8	0.066	U	0.066	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.066	U	0.066	0.34		1
01363	Endrin Ketone	53494-70-5	0.066	U	0.066	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.049	U	0.049	0.17		1
01363	Methoxychlor	72-43-5	0.61	U	0.61	1.7		1
01363	Mirex	2385-85-5	0.40	U	0.40	0.40		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.6		1
	Maintenance and a new calibration was performed prior to the analysis of the samples. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.88	J	0.33	1.7		1
10225	PCB-1260	11096-82-5	2.1		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1

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Sample Description: **SL-100-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA7-SS-0.0-0.5

LLI Sample # SW 6409798
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E4609 SDG#: DE246-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	100	U	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.0	U	4.0	12		10
10199	EFH (C15-C20)	n.a.	4.0	U	4.0	12		10
10199	EFH (C21-C30)	n.a.	77		4.0	12		10
10199	EFH (C30 - C40)	n.a.	220		4.0	12		10
10199	EFH (C8-C11)	n.a.	4.0	U	4.0	12		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,600		6.09	20.1		1
07914	Boron	7440-42-8	0.424	J	0.363	5.04		1
01650	Calcium	7440-70-2	2,060		2.52	20.1		1
01654	Iron	7439-89-6	17,700		2.63	20.1		1
01656	Lithium	7439-93-2	24.8		0.62	2.0		1
01657	Magnesium	7439-95-4	3,900		0.443	10.1		1
06958	Manganese	7439-96-5	263		0.0363	0.504		1
10145	Phosphorus	7723-14-0	385		0.353	10.1		1
01662	Potassium	7440-09-7	3,530		11.4	50.4		1
01667	Sodium	7440-23-5	68.4	J	5.99	101		1
07968	Strontium	7440-24-6	7.89		0.0252	0.504		1
06969	Tin	7440-31-5	3.26	J	0.322	10.1		1
06970	Titanium	7440-32-6	1,100		0.0715	1.01		1
10146	Zirconium	7440-67-7	1.32	J	0.463	5.04		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.175	J	0.0731	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.44		0.0790	0.395		2
06126	Barium	7440-39-3	83.0		0.105	0.395		2

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Analysis Report

Sample Description: **SL-100-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA7-SS-0.0-0.5

LLI Sample # SW 6409798
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:15

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E4609 SDG#: DE246-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.514		0.0158	0.0988		2
06128	Cadmium	7440-43-9	0.345		0.0435	0.0988		2
06131	Chromium	7440-47-3	13.3		0.119	0.395		2
06132	Cobalt	7440-48-4	4.83		0.0198	0.0988		2
06133	Copper	7440-50-8	7.31		0.0790	0.395		2
06135	Lead	7439-92-1	15.9		0.0101	0.198		2
06138	Molybdenum	7439-98-7	0.435		0.0494	0.0988		2
06139	Nickel	7440-02-0	9.90		0.0988	0.395		2
06141	Selenium	7782-49-2	0.0848	J	0.0573	0.395		2
06142	Silver	7440-22-4	0.0246	J	0.0140	0.0988		2
06145	Thallium	7440-28-0	0.304		0.0296	0.0988		2
06148	Vanadium	7440-62-2	30.8		0.0217	0.0988		2
06149	Zinc	7440-66-6	82.4		1.38	7.41		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0070	U	0.0070	0.0993		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.36	U	0.36	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.68		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.72		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-100-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA7-SS-0.0-0.5

LLI Sample # SW 6409798
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:15

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4609 SDG#: DE246-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11266SLF026	09/30/2011 04:24	Holly Berry	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLE026	09/30/2011 00:05	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11266SLE026	09/27/2011 11:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11266SLF026	09/27/2011 10:15	Roza S Goslawska	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670048A	09/29/2011 18:42	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112660021A	09/28/2011 05:01	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112650011A	09/23/2011 15:57	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112660021A	09/24/2011 06:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112650011A	09/22/2011 16:10	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670048A	09/28/2011 02:00	David V Hershey Jr	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112620030A	09/21/2011 05:11	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620011A	09/21/2011 04:06	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112650025A	09/24/2011 01:47	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112660005A	09/27/2011 14:20	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112660005A	09/23/2011 15:00	Wanda F Oswald	1
10303	Terphenyls soil prep	SW-846 3550B	1	112650025A	09/23/2011 08:10	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112620030A	09/19/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620011A	09/19/2011 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112635708002	09/28/2011 13:12	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112635708002	09/28/2011 13:12	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112635708002	09/28/2011 13:12	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112635708002	09/28/2011 13:12	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112635708002	09/28/2011 13:12	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112635708002	09/28/2011 13:12	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112635708002	09/28/2011 13:12	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112635708002	09/28/2011 13:12	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112635708002	09/28/2011 13:12	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112635708002	09/28/2011 13:12	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112635708002	09/28/2011 13:12	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112635708002	09/28/2011 13:12	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112635708002	09/28/2011 13:12	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112635708002	09/28/2011 13:12	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112631026002A	09/21/2011 08:38	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026002A	09/21/2011 08:38	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026002D	09/21/2011 08:38	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026002A	09/21/2011 08:38	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112631026002A	09/21/2011 08:38	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026002A	09/21/2011 08:38	Choon Y Tian	2

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Sample Description: **SL-100-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA7-SS-0.0-0.5

LLI Sample # SW 6409798
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:15

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4609 SDG#: DE246-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	112631026002A	09/21/2011 08:38	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026002A	09/21/2011 08:38	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026002A	09/21/2011 08:38	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026002C	09/21/2011 08:38	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026002A	09/21/2011 08:38	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026002B	09/21/2011 08:38	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026002A	09/21/2011 08:38	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026002A	09/21/2011 08:38	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026002A	09/21/2011 08:38	Choon Y Tian	2
06149	Zinc	SW-846 6020	2	112631026002A	09/21/2011 18:51	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	112635711003	09/21/2011 11:36	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708002	09/20/2011 22:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026002	09/20/2011 22:24	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711003	09/20/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11270621201A	09/28/2011 21:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11264264201A	09/23/2011 22:31	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11272243202A	10/01/2011 11:26	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11271102201A	09/28/2011 20:32	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11270621201A	09/27/2011 07:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11264264201A	09/21/2011 17:45	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11271102201A	09/28/2011 15:10	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11272039402A	09/29/2011 11:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11272243202A	09/29/2011 12:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11265162401B	09/22/2011 22:12	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-184-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-184-SA7-SS-0.0-0.5

LLI Sample # SW 6409800
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:58

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4611 SDG#: DE246-11*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	830	U	830	2,500		5
04688	Benzidine	92-87-5	5,800	U	5,800	17,000		5
04688	Benzoic acid	65-85-0	830	U	830	2,500		5
04688	Benzyl alcohol	100-51-6	830	U	830	2,500		5
04688	4-Bromophenyl-phenylether	101-55-3	83	U	83	830		5
04688	Di-n-butylphthalate	84-74-2	830	J	83	830		5
04688	Carbazole	86-74-8	83	U	83	830		5
04688	4-Chloro-3-methylphenol	59-50-7	170	U	170	830		5
04688	4-Chloroaniline	106-47-8	330	U	330	830		5
04688	bis(2-Chloroethoxy)methane	111-91-1	83	U	83	830		5
04688	bis(2-Chloroethyl)ether	111-44-4	83	U	83	830		5
04688	bis(2-Chloroisopropyl)ether	39638-32-9	83	U	83	830		5
04688	2-Chloronaphthalene	91-58-7	83	U	83	830		5
04688	2-Chlorophenol	95-57-8	83	U	83	830		5
04688	4-Chlorophenyl-phenylether	7005-72-3	170	U	170	830		5
04688	Dibenzofuran	132-64-9	83	U	83	830		5
04688	1,2-Dichlorobenzene	95-50-1	83	U	83	830		5
04688	1,3-Dichlorobenzene	541-73-1	83	U	83	830		5
04688	1,4-Dichlorobenzene	106-46-7	83	U	83	830		5
04688	3,3'-Dichlorobenzidine	91-94-1	500	U	500	1,700		5
04688	2,4-Dichlorophenol	120-83-2	83	U	83	830		5
04688	2,4-Dimethylphenol	105-67-9	170	U	170	830		5
04688	3,5-Dimethylphenol	108-68-9	170	U	170	830		5
04688	4,6-Dinitro-2-methylphenol	534-52-1	830	U	830	2,500		5
04688	2,4-Dinitrophenol	51-28-5	1,700	U	1,700	5,000		5
04688	2,4-Dinitrotoluene	121-14-2	170	U	170	830		5
04688	2,6-Dinitrotoluene	606-20-2	83	U	83	830		5
04688	1,2-Diphenylhydrazine	122-66-7	83	U	83	830		5
04688	Hexachlorobenzene	118-74-1	83	U	83	830		5
04688	Hexachlorobutadiene	87-68-3	330	U	330	830		5
04688	Hexachlorocyclopentadiene	77-47-4	830	U	830	2,500		5
04688	Hexachloroethane	67-72-1	83	U	83	830		5
04688	Isophorone	78-59-1	83	U	83	830		5
04688	2-Methylphenol	95-48-7	170	U	170	830		5
04688	4-Methylphenol	106-44-5	170	U	170	830		5
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	83	U	83	830		5
04688	3-Nitroaniline	99-09-2	170	U	170	830		5
04688	4-Nitroaniline	100-01-6	330	U	330	830		5
04688	Nitrobenzene	98-95-3	83	U	83	830		5
04688	2-Nitrophenol	88-75-5	83	U	83	830		5
04688	4-Nitrophenol	100-02-7	830	U	830	2,500		5
04688	N-Nitroso-di-n-propylamine	621-64-7	83	U	83	830		5
04688	N-Nitrosodiphenylamine	86-30-6	83	U	83	830		5
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	830	U	830	2,500		5

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Sample Description: **SL-184-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-184-SA7-SS-0.0-0.5

LLI Sample # SW 6409800
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:58

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4611 SDG#: DE246-11*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	83	U	83	830		5
04688	Tetralin	119-64-2	830	U	830	830		5
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	83	U	83	830		5
04688	2,4,5-Trichlorophenol	95-95-4	170	U	170	830		5
04688	2,4,6-Trichlorophenol	88-06-2	170	U	170	830		5
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	64		6.7	17		10
10138	Acenaphthylene	208-96-8	3.4	U	3.4	17		10
10138	Anthracene	120-12-7	120		3.4	17		10
10138	Benzo(a)anthracene	56-55-3	220		6.7	17		10
10138	Benzo(a)pyrene	50-32-8	210		6.7	17		10
10138	Benzo(b)fluoranthene	205-99-2	320		6.7	17		10
10138	Benzo(g,h,i)perylene	191-24-2	74		6.7	17		10
10138	Benzo(k)fluoranthene	207-08-9	160		6.7	17		10
10138	Butylbenzylphthalate	85-68-7	190		60	180		10
10138	Chrysene	218-01-9	250		3.4	17		10
10138	Dibenz(a,h)anthracene	53-70-3	28		6.7	17		10
10138	Diethylphthalate	84-66-2	60	U	60	180		10
10138	Dimethylphthalate	131-11-3	60	U	60	180		10
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	1,700		60	180		10
10138	Fluoranthene	206-44-0	610		6.7	17		10
10138	Fluorene	86-73-7	49		6.7	17		10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	87		6.7	17		10
10138	1-Methylnaphthalene	90-12-0	6.7	U	6.7	17		10
10138	2-Methylnaphthalene	91-57-6	6.7	U	6.7	17		10
10138	Naphthalene	91-20-3	6.9	J	6.7	17		10
10138	N-Nitrosodimethylamine	62-75-9	6.7	U	6.7	17		10
10138	Di-n-octylphthalate	117-84-0	3,200		60	180		10
10138	Phenanthrene	85-01-8	490		6.7	17		10
10138	Pyrene	129-00-0	510		6.7	17		10
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	1.1	U	1.1	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1

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Sample Description: SL-184-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-184-SA7-SS-0.0-0.5

LLI Sample # SW 6409800
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:58

Submitted: 09/17/2011 09:15
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E4611 SDG#: DE246-11*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.15	U	0.15	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised due to interference from the sample matrix.

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	5.9		0.81	3.4		1
01363	p,p-DDD	72-54-8	0.33	U	0.33	1.7		5
01363	p,p-DDE	72-55-9	2.0	U	2.0	2.0		1
01363	p,p-DDT	50-29-3	15	U	15	15		5
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	2.0	U	2.0	2.0		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.93	U	0.93	0.93		1
01363	Endosulfan Sulfate	1031-07-8	0.10	U	0.10	0.34		1
01363	Endrin	72-20-8	1.5	U	1.5	1.5		1
01363	Endrin Aldehyde	7421-93-4	10	U	10	10		5
01363	Endrin Ketone	53494-70-5	0.066	U	0.066	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.33	U	0.33	0.33		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.24	U	0.24	0.34		1
01363	Toxaphene	8001-35-2	270	U	270	270		5

Maintenance and a new calibration was performed prior to the analysis of the samples. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site.
Reporting limits were raised due to interference from the sample matrix.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	20	U	20	66		20
10225	Aroclor 5442	12642-23-8	20	U	20	66		20
10225	Aroclor 5460	11126-42-4	20	U	20	66		20
10225	PCB-1016	12674-11-2	6.6	U	6.6	34		20
10225	PCB-1221	11104-28-2	6.6	U	6.6	34		20
10225	PCB-1232	11141-16-5	6.6	U	6.6	34		20
10225	PCB-1242	53469-21-9	6.6	U	6.6	34		20
10225	PCB-1248	12672-29-6	6.6	U	6.6	34		20
10225	PCB-1254	11097-69-1	110		6.6	34		20

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Sample Description: SL-184-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-184-SA7-SS-0.0-0.5

LLI Sample # SW 6409800
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:58

Submitted: 09/17/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4611 SDG#: DE246-11*

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs		**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1260		11096-82-5	320		7.9	34		20
10225	PCB-1262		37324-23-5	6.6	U	6.6	34		20
10225	PCB-1268		11100-14-4	6.6	U	6.6	34		20
GC Miscellaneous		**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol		64-17-5	100	U	100	500		1
10501	Isopropanol		67-63-0	100	U	100	500		1
10501	Methanol		67-56-1	100	U	100	500		1
GC Miscellaneous		**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol		111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol		107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol		57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons		**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl		92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl		84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl		92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons		**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)		n.a.	4.0	U	4.0	12		10
10199	EFH (C15-C20)		n.a.	4.0	U	4.0	12		10
10199	EFH (C21-C30)		n.a.	76		4.0	12		10
10199	EFH (C30 - C40)		n.a.	190		4.0	12		10
10199	EFH (C8-C11)		n.a.	6.4	J	4.0	12		10
Metals		**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum		7429-90-5	11,900		6.03	19.9		1
07914	Boron		7440-42-8	0.359	U	0.359	4.98		1
01650	Calcium		7440-70-2	1,660		2.49	19.9		1
01654	Iron		7439-89-6	17,800		2.60	19.9		1
01656	Lithium		7439-93-2	19.0		0.62	2.0		1
01657	Magnesium		7439-95-4	2,800		0.439	9.97		1
06958	Manganese		7439-96-5	178		0.0359	0.498		1
10145	Phosphorus		7723-14-0	313		0.349	9.97		1
01662	Potassium		7440-09-7	2,310		11.3	49.8		1
01667	Sodium		7440-23-5	75.8	J	5.93	99.7		1
07968	Strontium		7440-24-6	11.5		0.0249	0.498		1
06969	Tin		7440-31-5	3.38	J	0.319	9.97		1
06970	Titanium		7440-32-6	895		0.0708	0.997		1
10146	Zirconium		7440-67-7	2.69	J	0.459	4.98		1
		SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony		7440-36-0	0.305		0.0738	0.199		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-184-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-184-SA7-SS-0.0-0.5

LLI Sample # SW 6409800
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:58

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4611 SDG#: DE246-11*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.43		0.0798	0.399		2
06126	Barium	7440-39-3	100		0.106	0.399		2
06127	Beryllium	7440-41-7	0.527		0.0160	0.0997		2
06128	Cadmium	7440-43-9	0.537		0.0439	0.0997		2
06131	Chromium	7440-47-3	16.6		0.120	0.399		2
06132	Cobalt	7440-48-4	5.07		0.0199	0.0997		2
06133	Copper	7440-50-8	8.34		0.0798	0.399		2
06135	Lead	7439-92-1	21.9		0.0102	0.199		2
06138	Molybdenum	7439-98-7	0.604		0.0498	0.0997		2
06139	Nickel	7440-02-0	10.0		0.0997	0.399		2
06141	Selenium	7782-49-2	0.0958	J	0.0578	0.399		2
06142	Silver	7440-22-4	0.0467	J	0.0142	0.0997		2
06145	Thallium	7440-28-0	0.331		0.0299	0.0997		2
06148	Vanadium	7440-62-2	29.6		0.0219	0.0997		2
06149	Zinc	7440-66-6	491		2.79	15.0		10
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.111		0.0069	0.0980		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.60	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.63		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.69		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-184-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-184-SA7-SS-0.0-0.5

LLI Sample # SW 6409800
LLI Group # 1267000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:58

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 09:31

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4611 SDG#: DE246-11*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11266SLF026	09/30/2011 04:49	Holly Berry	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11266SLE026	09/30/2011 00:38	Gregory J Drahovsky	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11266SLE026	09/27/2011 11:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	11266SLF026	09/27/2011 10:15	Roza S Goslawska	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670048A	09/29/2011 19:09	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112660021A	09/28/2011 05:30	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112660021A	09/28/2011 05:49	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112650011A	09/24/2011 10:17	Jamie L Brillhart	20
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112660021A	09/24/2011 06:00	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112650011A	09/22/2011 16:10	JoElla L Rice	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670048A	09/28/2011 02:00	David V Hershey Jr	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112620030A	09/21/2011 05:26	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112620011A	09/21/2011 04:18	Dustin A Underkoffler	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112650025A	09/24/2011 02:09	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112660005A	09/27/2011 14:43	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112660005A	09/23/2011 15:00	Wanda F Oswald	1
10303	Terphenyls soil prep	SW-846 3550B	1	112650025A	09/23/2011 08:10	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112620030A	09/19/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112620011A	09/19/2011 13:30	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112635708002	09/29/2011 05:56	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112635708002	09/29/2011 05:56	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112635708002	09/29/2011 05:56	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112635708002	09/29/2011 05:56	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112635708002	09/29/2011 05:56	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112635708002	09/29/2011 05:56	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112635708002	09/29/2011 05:56	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112635708002	09/29/2011 05:56	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112635708002	09/29/2011 05:56	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112635708002	09/29/2011 05:56	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112635708002	09/29/2011 05:56	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112635708002	09/29/2011 05:56	Tara L Snyder	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-184-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-184-SA7-SS-0.0-0.5

LLI Sample # SW 6409800
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4611 SDG#: DE246-11*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112635708002	09/29/2011 05:56	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112635708002	09/29/2011 05:56	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112631026002A	09/21/2011 08:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112631026002A	09/21/2011 08:41	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112631026002D	09/21/2011 08:41	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112631026002A	09/21/2011 08:41	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112631026002A	09/21/2011 08:41	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112631026002A	09/21/2011 08:41	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112631026002A	09/21/2011 08:41	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112631026002A	09/21/2011 08:41	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112631026002A	09/21/2011 08:41	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112631026002C	09/21/2011 08:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112631026002A	09/21/2011 08:41	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112631026002B	09/21/2011 08:41	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112631026002A	09/21/2011 08:41	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112631026002A	09/21/2011 08:41	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112631026002A	09/21/2011 08:41	Choon Y Tian	2
06149	Zinc	SW-846 6020	3	112631026002A	09/23/2011 15:00	Choon Y Tian	10
00159	Mercury	SW-846 7471A	1	112635711003	09/21/2011 11:37	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112635708002	09/20/2011 22:23	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112631026002	09/20/2011 22:24	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112635711003	09/20/2011 23:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11270621201A	09/28/2011 21:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11264264201A	09/23/2011 22:54	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11272243202A	10/01/2011 12:00	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11272102201A	09/30/2011 08:16	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11270621201A	09/27/2011 07:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11264264201A	09/21/2011 17:45	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11272102201A	09/29/2011 23:20	James S Mathiot	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11272039402B	09/29/2011 11:45	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11272243202A	09/29/2011 12:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11265162401B	09/22/2011 22:12	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267000
Reported: 10/10/11 at 09:31 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11265SLB026	Sample number(s): 6409797									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	108		70-130		
Batch number: 11266SLE026	Sample number(s): 6409790-6409798,6409800									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	96		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	92		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	89		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	98		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	98		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	104		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	99		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	109		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	110		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	110		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	99		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	99		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	127*		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	102		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	103		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	97		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	105		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	99		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	92		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	92		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	95		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	98		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	121		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	87		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	102		72-119		
Batch number: 11266SLF026	Sample number(s): 6409790-6409798,6409800									
Aniline	170 U		170.	500	ug/kg	83		20-115		
Benzidine	1,200 U		1,200.	3,300	ug/kg	50		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	108		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	109		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	112		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	110		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	101		67-125		
Benzoic acid	170 U		170.	500	ug/kg	77		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	105		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	95		73-114		
Di-n-butylphthalate	17	U	17.	170	ug/kg	108		79-112		

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267000
Reported: 10/10/11 at 09:31 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Carbazole	17	U	17.	170	ug/kg	105		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	113		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	63		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	99		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	99		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	92		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	82		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	108		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	97		74-115		
Chrysene	17	U	17.	170	ug/kg	103		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	112		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	98		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	96		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	95		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	94		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	62		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	105		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	108		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	104		83-120		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	45*		46-120		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	23		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	106		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	107		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	101		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	114		75-117		
Fluoranthene	17	U	17.	170	ug/kg	108		78-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	91		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	90		65-117		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	73		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	99		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	113		64-119		
Isophorone	17	U	17.	170	ug/kg	103		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	106		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	102		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	100		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	98		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	76		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	103		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	110		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	98		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	95		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	101		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	86		51-117		
Phenanthrene	17	U	17.	170	ug/kg	101		77-113		
Phenol	17	U	17.	170	ug/kg	106		58-112		
Pyrene	17	U	17.	170	ug/kg	102		75-115		
Tetralin	170	U	170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	96		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	99		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	103		78-111		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267000
Reported: 10/10/11 at 09:31 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 112640025A	Sample number(s): 6409797									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	106		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	103		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	66	81	54-134	20	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	66	81	54-134	20	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	107		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	98		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	105		80-120		
HMX	100	U	100.	300	ug/kg	92		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	98		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	85		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	99		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	105		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	98		80-120		
PETN	800	U	800.	2,400	ug/kg	100		80-120		
RDX	50	U	50.	120	ug/kg	104		75-131		
Tetryl	61	U	61.	120	ug/kg	94		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	103		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	105		80-120		
Batch number: 112620004A	Sample number(s): 6409797									
20a Formaldehyde 8315A	600	U	600.	1,500	ug/kg	108		80-126		
Batch number: 112670006A	Sample number(s): 6409790-6409791									
2,4-D	1.2	U	1.2	3.6	ug/kg	101		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	55		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	49*		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	87		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	0*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	113		62-170		
MCPA	76	U	76.	250	ug/kg	72		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	84		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	96		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	94		68-114		
Batch number: 112670048A	Sample number(s): 6409792-6409798,6409800									
2,4-D	1.2	U	1.2	3.6	ug/kg	103		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	46		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	80		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	94		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	8*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	108		62-170		
MCPA	76	U	76.	250	ug/kg	87		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	73		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	95		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	94		68-114		
Batch number: 112690003A	Sample number(s): 6409791									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	97		85-115		
Batch number: 112650011A	Sample number(s): 6409790-6409798,6409800									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	79	79	36-106	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267000
Reported: 10/10/11 at 09:31 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	96		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	102		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112660021A	Sample number(s): 6409790-6409798,6409800									
Aldrin	0.066	U	0.066	0.17	ug/kg	79		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	76		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	94		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	82		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	90		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	97		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	94		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	94		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	94		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	71		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	92		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	103		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	93		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	83		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	94		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	82		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	91		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	106		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 112620011A	Sample number(s): 6409790-6409798,6409800									
Diethylene glycol	5.0	U	5.0	10	mg/kg	89		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	90		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	79		67-131		
Batch number: 112620030A	Sample number(s): 6409790-6409795,6409797-6409798,6409800									
Ethanol	100	U	100.	500	ug/kg	103		71-129		
Isopropanol	100	U	100.	500	ug/kg	122		75-125		
Methanol	100	U	100.	500	ug/kg	92		68-129		
Batch number: 112640035A	Sample number(s): 6409796									
Ethanol	100	U	100.	500	ug/kg	86		71-129		
Isopropanol	100	U	100.	500	ug/kg	86		75-125		
Methanol	100	U	100.	500	ug/kg	88		68-129		
Batch number: 112650025A	Sample number(s): 6409790-6409798,6409800									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		75-125		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267000
Reported: 10/10/11 at 09:31 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	97		69-109		
Batch number: 112660005A	Sample number(s): 6409790-6409798,6409800									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	94		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	96		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	99		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	94		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	82		49-107		
Batch number: 112631026002A	Sample number(s): 6409790-6409798,6409800									
Antimony	0.0740	U	0.0740	0.200	mg/kg	111		10-224		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	106		78-122		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	105		80-120		
Cadmium	0.0440	U	0.0440	0.100	mg/kg	105		81-119		
Chromium	0.120	U	0.120	0.400	mg/kg	115		77-123		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	101		80-119		
Copper	0.0800	U	0.0800	0.400	mg/kg	105		78-122		
Lead	0.0102	U	0.0102	0.200	mg/kg	104		77-123		
Nickel	0.100	U	0.100	0.400	mg/kg	110		80-120		
Silver	0.0142	U	0.0142	0.100	mg/kg	105		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	106		75-124		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	121		76-124		
Zinc	0.560	U	0.560	3.00	mg/kg	109		79-121		
Batch number: 112631026002B	Sample number(s): 6409790-6409798,6409800									
Selenium	0.0580	U	0.0580	0.400	mg/kg	111		77-123		
Batch number: 112631026002C	Sample number(s): 6409790-6409798,6409800									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	112		76-123		
Batch number: 112631026002D	Sample number(s): 6409790-6409798,6409800									
Barium	0.106	U	0.106	0.400	mg/kg	106		80-120		
Batch number: 112635708002	Sample number(s): 6409790-6409798,6409800									
Aluminum	6.05	U	6.05	20.0	mg/kg	153		42-158		
Boron	0.367	J	0.360	5.00	mg/kg	109		66-134		
Calcium	9.09	J	2.50	20.0	mg/kg	110		79-121		
Iron	2.61	U	2.61	20.0	mg/kg	141		51-149		
Lithium	0.62	U	0.62	2.0	mg/kg	103		80-120		
Magnesium	0.972	J	0.440	10.0	mg/kg	129		64-136		
Manganese	0.0360	U	0.0360	0.500	mg/kg	101		78-122		
Phosphorus	1.50	J	0.350	10.0	mg/kg	106		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	122		69-131		
Sodium	5.95	U	5.95	100	mg/kg	113		71-129		
Strontium	0.0460	J	0.0250	0.500	mg/kg	106		81-119		
Tin	1.68	J	0.320	10.0	mg/kg	100		74-126		
Titanium	0.0710	U	0.0710	1.00	mg/kg	98		80-120		
Zirconium	0.507	J	0.460	5.00	mg/kg	105		80-120		
Batch number: 112635711003	Sample number(s): 6409790-6409798,6409800									
Mercury	0.0067	U	0.0067	0.0950	mg/kg	112		72-128		
Batch number: 11264264201A	Sample number(s): 6409790-6409798,6409800									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	94		85-115		
Batch number: 11270621201A	Sample number(s): 6409790-6409798,6409800									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	95		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	98		90-110		

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11271102201A	Sample number(s): 6409790-6409798									
16a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	101		80-120		
Batch number: 11272102201A	Sample number(s): 6409800									
16a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	98	97	80-120	1	20
Batch number: 11272243202A	Sample number(s): 6409790-6409798,6409800									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	100		80-120		
Batch number: 11272039402A	Sample number(s): 6409790-6409798									
17a pH by 9045C						100		95-105		
Batch number: 11272039402B	Sample number(s): 6409800									
17a pH by 9045C						100		95-105		
Batch number: 11265162401B	Sample number(s): 6409790-6409796,6409798,6409800									
Moisture Content by 160.3						100		80-120		
Batch number: 11272162401B	Sample number(s): 6409797									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11265SLB026	Sample number(s): 6409797 UNSPK: P406203								
N-Nitrosodimethylamine	55*	44*	70-130	19	30				
Batch number: 11266SLE026	Sample number(s): 6409790-6409798,6409800 UNSPK: 6409790								
Acenaphthene	81	-66*	63-105	66*	30				
Acenaphthylene	91	66*	67-114	24	30				
Anthracene	-34 (2)	-354 (2)	73-115	93*	30				
Benzo(a)anthracene	61 (2)	-1589 (2)	59-128	78*	30				
Benzo(a)pyrene	-100 (2)	-1573 (2)	58-142	74*	30				
Benzo(b)fluoranthene	245 (2)	-2901 (2)	54-163	83*	30				
Benzo(g,h,i)perylene	-203 (2)	-760 (2)	33-141	71*	30				
Benzo(k)fluoranthene	19 (2)	-1024 (2)	57-153	55*	30				
Butylbenzylphthalate	0*	0*	57-173	0	30				
Di-n-butylphthalate	0*	0*	65-148	0	30				
Chrysene	-172 (2)	-2198 (2)	67-123	72*	30				
Dibenz(a,h)anthracene	-37*	-215*	22-133	67*	30				
Diethylphthalate	0*	0*	70-136	0	30				
Dimethylphthalate	0*	0*	74-118	0	30				

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Bis(2-Ethylhexyl)phthalate	372*	256*	39-167	37*	30				
Fluoranthene	514 (2)	-4592 (2)	51-149	85*	30				
Fluorene	28*	-36*	66-122	36*	30				
Indeno(1,2,3-cd)pyrene	-175 (2)	-909 (2)	21-143	87*	30				
1-Methylnaphthalene	90	61*	72-123	28	30				
2-Methylnaphthalene	107*	84	64-103	24	30				
Naphthalene	92	63	61-102	27	30				
N-Nitrosodimethylamine	87	75	48-113	15	30				
Di-n-octylphthalate	0*	0*	40-192	0	30				
Phenanthrene	-270 (2)	-2777 (2)	62-122	83*	30				
Pyrene	329 (2)	-3805 (2)	51-131	80*	30				
Batch number: 11266SLF026	Sample number(s): 6409790-6409798,6409800 UNSPK: 6409791								
Aniline	0*	0*	18-116	0	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	-18 (2)	913 (2)	65-122	108*	30				
Benzo(a)pyrene	49*	595*	57-126	79*	30				
Benzo(b)fluoranthene	43 (2)	992 (2)	59-125	89*	30				
Benzo(g,h,i)perylene	94	398*	59-127	58*	30				
Benzo(k)fluoranthene	32*	344*	56-132	73*	30				
Benzoic acid	53	61	10-173	14	30				
Benzyl alcohol	81	94	67-115	15	30				
4-Bromophenyl-phenylether	86	94	67-129	10	30				
Di-n-butylphthalate	86	101	67-123	17	30				
Carbazole	54*	393*	64-120	99*	30				
4-Chloro-3-methylphenol	87	96	62-122	10	30				
4-Chloroaniline	49	62	13-107	23	30				
bis(2-Chloroethoxy)methane	80	92	75-104	14	30				
bis(2-Chloroethyl)ether	82	102	60-116	22	30				
bis(2-Chloroisopropyl)ether	82	92	55-142	12	30				
2-Chloronaphthalene	65	97	50-141	40*	30				
2-Chlorophenol	85	102	73-121	18	30				
4-Chlorophenyl-phenylether	76*	91	80-109	19	30				
Chrysene	-6 (2)	945 (2)	62-128	99*	30				
Dibenz(a,h)anthracene	95	208*	65-125	52*	30				
Dibenzofuran	73	216*	71-112	87*	30				
1,2-Dichlorobenzene	78	92	66-108	17	30				
1,3-Dichlorobenzene	80	91	63-109	12	30				
1,4-Dichlorobenzene	74	92	58-108	22	30				
3,3'-Dichlorobenzidine	0*	0*	28-109	0	30				
2,4-Dichlorophenol	81	96	66-123	17	30				
2,4-Dimethylphenol	87	100	68-118	14	30				
3,5-Dimethylphenol	83	94	71-127	12	30				
4,6-Dinitro-2-methylphenol	0*	0*	11-126	0	30				
2,4-Dinitrophenol	0*	0*	20-143	0	30				
2,4-Dinitrotoluene	75	90	56-129	18	30				
2,6-Dinitrotoluene	85	102	69-123	19	30				
1,2-Diphenylhydrazine	88	101	71-129	14	30				
bis(2-Ethylhexyl)phthalate	192*	125*	63-122	40*	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267000
Reported: 10/10/11 at 09:31 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Fluoranthene	-228 (2)	2697 (2)	73-112	119*	30				
Hexachlorobenzene	82	85	77-114	5	30				
Hexachlorobutadiene	76	92	62-120	19	30				
Hexachlorocyclopentadiene	30	0*	10-153	200*	30				
Hexachloroethane	85	89	57-109	5	30				
Indeno(1,2,3-cd)pyrene	93	423*	61-126	64*	30				
Isophorone	80	90	73-102	13	30				
2-Methylphenol	81	100	75-111	21	30				
4-Methylphenol	80	95	59-123	18	30				
2-Nitroaniline	84	98	67-125	16	30				
3-Nitroaniline	65	79	59-122	20	30				
4-Nitroaniline	64	77	41-109	19	30				
Nitrobenzene	84	101	57-125	19	30				
2-Nitrophenol	83	96	56-127	15	30				
4-Nitrophenol	74	94	37-129	24	30				
N-Nitroso-di-n-propylamine	76	90	60-116	17	30				
N-Nitrosodiphenylamine	88	107	71-122	20	30				
Pentachlorophenol	74	86	28-127	14	30				
Phenanthrene	-123 (2)	2414 (2)	65-125	134*	30				
Phenol	81	94	58-126	15	30				
Pyrene	-125 (2)	2082 (2)	74-126	113*	30				
1,2,4-Trichlorobenzene	82	92	72-115	11	30				
2,4,5-Trichlorophenol	81	92	58-129	12	30				
2,4,6-Trichlorophenol	86	97	56-134	12	30				
Batch number: 112640025A	Sample number(s): 6409797 UNSPK: P404514								
4-Amino-2,6-Dinitrotoluene	106	105	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	103	101	80-137	2	50				
1,3-Dinitrobenzene	106	105	38-166	1	50				
2,4-Dinitrotoluene	98	96	80-131	2	50				
2,6-Dinitrotoluene	102	103	80-127	1	50				
HMX	91	92	63-128	0	50				
Nitrobenzene	99	98	80-125	1	50				
Nitroglycerin	96	95	80-120	1	50				
2-Nitrotoluene	96	97	80-122	0	50				
3-Nitrotoluene	102	102	72-119	0	50				
4-Nitrotoluene	95	96	80-125	0	50				
PETN	104	102	80-121	1	50				
RDX	94	93	75-129	2	50				
Tetryl	80	82	55-174	3	50				
1,3,5-Trinitrobenzene	93	93	82-126	1	50				
2,4,6-Trinitrotoluene	103	103	82-130	0	50				
Batch number: 112620004A	Sample number(s): 6409797 UNSPK: P404354								
20a Formaldehyde 8315A	111	113	80-120	2	50				
Batch number: 112670006A	Sample number(s): 6409790-6409791 UNSPK: 6409791								
2,4-D	66	67	17-180	1	35				
Dalapon	28	0*	10-125	200*	50				
2,4-DB	0*	0*	10-201	0	50				

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Quality Control Summary

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Reported: 10/10/11 at 09:31 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Dicamba	0*	0*	10-190	0	50				
Dinoseb	0*	0*	10-46	0	35				
2,4-DP (Dichlorprop)	0*	0*	33-178	0	50				
MCPA	28	12	10-213	84*	50				
MCPP (Mecoprop)	35	25	10-184	34	50				
2,4,5-T	70	10	10-156	29	35				
2,4,5-TP	0*	0*	24-141	0	35				
Batch number: 112670048A	Sample number(s): 6409792-6409798,6409800 UNSPK: P412111								
2,4-D	94	61	17-180	44*	35				
Dalapon	67	52	10-125	26	50				
2,4-DB	0*	53	10-201	200*	50				
Dicamba	125	169	10-190	30	50				
Dinoseb	7*	8*	10-46	17	35				
2,4-DP (Dichlorprop)	96	83	33-178	16	50				
MCPA	33	17	10-213	64*	50				
MCPP (Mecoprop)	72	37	10-184	66*	50				
2,4,5-T	-46*	-17*	10-156	49*	35				
2,4,5-TP	66	40	24-141	50*	35				
Batch number: 112690003A	Sample number(s): 6409791 UNSPK: P415779								
6a Perchlorate EPA 6850	106	110	80-120	4	20				
Batch number: 112650011A	Sample number(s): 6409790-6409798,6409800 UNSPK: 6409790								
PCB-1016	61	75	29-146	21	50				
PCB-1260	-21*	84	39-149	61*	50				
Batch number: 112660021A	Sample number(s): 6409790-6409798,6409800 UNSPK: 6409790								
Aldrin	0*	0*	16-126	0	50				
Alpha BHC	71	74	10-129	4	50				
Beta BHC	0*	0*	14-147	0	50				
Gamma BHC - Lindane	88	82	10-140	7	50				
p,p-DDD	321*	313*	16-163	2	50				
p,p-DDE	194*	185*	18-161	5	50				
p,p-DDT	231 (2)	-107 (2)	10-176	22	50				
Delta BHC	91	81	23-140	11	50				
Dieldrin	0*	0*	19-154	0	50				
Endosulfan I	0*	0*	16-137	0	50				
Endosulfan II	169*	171*	28-154	1	50				
Endosulfan Sulfate	0*	0*	21-160	0	50				
Endrin	0*	0*	11-149	0	50				
Endrin Aldehyde	217*	170*	10-148	24	35				
Endrin Ketone	0*	0*	22-165	0	50				
Heptachlor	0*	0*	13-126	0	50				
Heptachlor Epoxide	348*	103	13-157	109*	50				
Methoxychlor	0*	0*	32-147	0	50				
Batch number: 112620011A	Sample number(s): 6409790-6409798,6409800 UNSPK: P409752								
Diethylene glycol	15*	17*	59-109	10	20				
Ethylene glycol	43*	44*	63-107	1	20				
Propylene glycol	55*	54*	63-107	1	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267000
Reported: 10/10/11 at 09:31 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 112620030A	Sample number(s): 6409790-6409795,6409797-6409798,6409800 UNSPK: 6409790								
Ethanol	98	103	48-130	5	20				
Isopropanol	98	105	12-149	7	20				
Methanol	108	111	43-138	3	20				
Batch number: 112640035A	Sample number(s): 6409796 UNSPK: P409752								
Ethanol	90	90	48-130	1	20				
Isopropanol	94	94	12-149	0	20				
Methanol	97	94	43-138	2	20				
Batch number: 112650025A	Sample number(s): 6409790-6409798,6409800 UNSPK: 6409790								
m-Terphenyl	0*	0*	75-125	0	20				
o-Terphenyl	92	94	75-125	1	20				
p-Terphenyl	93	0*	75-125	200*	20				
Batch number: 112660005A	Sample number(s): 6409790-6409798,6409800 UNSPK: 6409790								
EFH (C12-C14)	0*	0*	49-123	0	20				
EFH (C15-C20)	478 (2)	130 (2)	49-123	33*	20				
EFH (C21-C30)	3111 (2)	-283 (2)	49-123	36*	20				
EFH (C30 - C40)	5684 (2)	-1687 (2)	49-123	34*	20				
EFH (C8-C11)	0*	0*	49-123	0	20				
Batch number: 112631026002A	Sample number(s): 6409790-6409798,6409800 UNSPK: 6409790 BKG: 6409790								
Antimony	66*	54*	75-125	13	20	0.424	0.198	73* (1)	20
Arsenic	160*	103	75-125	17	20	4.05	3.32	20	20
Beryllium	156*	131*	75-125	14	20	0.395	0.407	3 (1)	20
Cadmium	161*	140*	75-125	13	20	0.316	0.311	2 (1)	20
Chromium	145*	127*	75-125	6	20	15.5	21.6	33*	20
Cobalt	150*	128*	75-125	15	20	4.93	4.76	3	20
Copper	168*	138*	75-125	13	20	8.74	9.85	12	20
Lead	31 (2)	4 (2)	75-125	3	20	30.9	55.6	57*	20
Nickel	166*	413*	75-125	65*	20	8.45	8.76	4	20
Silver	152*	134*	75-125	13	20	0.0595 J	0.0443 J	29* (1)	20
Thallium	159*	136*	75-125	11	20	0.238	0.246	3 (1)	20
Vanadium	181*	137*	75-125	10	20	30.5	28.4	7	20
Zinc	54 (2)	233 (2)	75-125	11	20	149	154	3	20
Batch number: 112631026002B	Sample number(s): 6409790-6409798,6409800 UNSPK: 6409790 BKG: 6409790								
Selenium	150*	129*	75-125	16	20	0.0829 J	0.101 J	20 (1)	20
Batch number: 112631026002C	Sample number(s): 6409790-6409798,6409800 UNSPK: 6409790 BKG: 6409790								
Molybdenum	160*	143*	75-125	12	20	0.487	0.515	6 (1)	20
Batch number: 112631026002D	Sample number(s): 6409790-6409798,6409800 UNSPK: 6409790 BKG: 6409790								
Barium	294 (2)	198 (2)	75-125	9	20	79.3	80.7	2	20
Batch number: 112635708002	Sample number(s): 6409790-6409798,6409800 UNSPK: 6409790 BKG: 6409790								
Aluminum	1395 (2)	752 (2)	75-125	11	20	9,660	9,810	2	20
Boron	104	102	84-115	3	20	0.350 U	0.356 U	0 (1)	20
Calcium	187 (2)	143 (2)	75-125	6	20	2,270	3,030	29*	20

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Quality Control Summary

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Reported: 10/10/11 at 09:31 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Iron	702 (2)	-740 (2)	75-125	8	20	17,100		17,500		2	20
Lithium	101	100	82-114	2	20	18.9		18.6		1	20
Magnesium	167 (2)	51 (2)	75-125	7	20	3,360		3,370		0	20
Manganese	-142 (2)	-187 (2)	75-125	7	20	365		244		40*	20
Phosphorus	52 (2)	69 (2)	75-125	3	20	438		414		6	20
Potassium	112	90	75-125	6	20	3,220		3,060		5	20
Sodium	101	102	75-125	1	20	87.9	J	91.3	J	4 (1)	20
Strontium	107	108	75-115	1	20	14.6		15.8		8	20
Tin	92	93	80-110	2	20	3.17	J	2.89	J	9 (1)	20
Titanium	215 (2)	150 (2)	75-125	5	20	1,070		1,090		2	20
Zirconium	98	99	75-125	2	20	1.12	J	2.06	J	59* (1)	20
Batch number: 112635711003	Sample number(s): 6409790-6409798,6409800 UNSPK: 6409790 BKG: 6409790										
Mercury	112	109	65-135	5	20	0.0097	J	0.0085	J	13 (1)	20
Batch number: 11264264201A	Sample number(s): 6409790-6409798,6409800 UNSPK: 6409790 BKG: 6409790										
7a Perchlorate EPA 314.0	93		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11270621201A	Sample number(s): 6409790-6409798,6409800 UNSPK: 6409790 BKG: 6409790										
11a Anions by 300.0 - Fluoride	88		80-120			0.80	U	0.80	U	0 (1)	20
11a Anions by 300.0 - Nitrate	101		80-120			4.5		6.9		42* (1)	20
Batch number: 11271102201A	Sample number(s): 6409790-6409798 UNSPK: 6409792 BKG: 6409792										
16a Cyanide by 9012B	104		75-125			0.17	U	0.18	U	0 (1)	20
Batch number: 11272102201A	Sample number(s): 6409800 UNSPK: 6409800 BKG: 6409800										
16a Cyanide by 9012B	0*		75-125			0.18	U	0.17	U	0 (1)	20
Batch number: 11272243202A	Sample number(s): 6409790-6409798,6409800 UNSPK: 6409800 BKG: 6409800										
3a Cr VI by EPA 7199	92		75-125			0.59	J	2.6		126* (1)	20
Batch number: 11272039402A	Sample number(s): 6409790-6409798 BKG: 6409793										
17a pH by 9045C						6.80		6.75		1	3
Batch number: 11272039402B	Sample number(s): 6409800 BKG: 6409800										
17a pH by 9045C						6.63		6.64		0	3
Batch number: 11265162401B	Sample number(s): 6409790-6409796,6409798,6409800 BKG: P401597										
Moisture Content by 160.3						9.3		9.4		1	20
Batch number: 11272162401B	Sample number(s): 6409797 BKG: P412126										
Moisture Content by 160.3						6.6		7.0		5	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

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Quality Control Summary

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Reported: 10/10/11 at 09:31 AM

Surrogate Quality Control

Analysis Name: 21a NDMA by 1625C
Batch number: 11265SLB026

	N-Nitrosodimethylamine-d6
6409797	120
Blank	74
LCS	79
MS	193*
MSD	170*
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11266SLE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6409790	83	88	100
6409791	91	77	234*
6409792	95	88	192*
6409793	89	78	93
6409794	98	89	107
6409795	88	83	96
6409796	171*	90	111
6409797	86	82	90
6409798	97	88	99
6409800	127	89	104
Blank	100	91	102
LCS	109	89	96
MS	97	90	105
MSD	84	78	92
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11266SLF026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6409790	78	84	65	76	77	67
6409791	83	87	70	76	75	68
6409792	74	76	62	71	72	63
6409793	91	98	80	92	94	82
6409794	88	94	80	85	87	78
6409795	87	95	76	90	92	78
6409796	71	76	66	72	70	63
6409797	81	85	68	76	82	71
6409798	83	87	73	85	81	73
6409800	77	82	73	81	82	71
Blank	105	115	99	103	99	93
LCS	103	108	95	98	91	90
MS	80	84	70	79	76	68
MSD	94	99	83	92	91	83
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 20a Formaldehyde 8315A
Batch number: 112620004A

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Quality Control Summary

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Surrogate Quality Control

	Butyraldehyde
6409797	108
Blank	102
LCS	87
MS	100
MSD	102
Limits:	64-126

Analysis Name: 15a Energetics by 8330A
Batch number: 112640025A

	2-Nitro-m-xylene
6409797	116
Blank	114
LCS	115
LCSD	134
MS	108
MSD	109
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112650011A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6409790	49*	47
6409791	79	109
6409792	66	82
6409793	86	66
6409794	72	60
6409795	80	62
6409796	117	123*
6409797	67	69
6409798	66	46
6409800	102	108
Blank	106	105
LCS	102	101
LCSD	104	104
MS	76	0*
MSD	81	77
Limits:	53-139	45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 112660021A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6409790	74	821*
6409791	61	7716*
6409792	62	6645*
6409793	52	583*
6409794	60	504*
6409795	65	195*
6409796	52	553*
6409797	63	182*

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Quality Control Summary

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Surrogate Quality Control

6409798	66	96
6409800	59	211*
Blank	73	113
LCS	84	102
MS	62	1387*
MSD	66	882*
Limits:	50-130	20-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 112670006A

	2,4-Dichlorophenylacetic acid
6409790	81
6409791	43
Blank	89
LCS	98
MS	54
MSD	41
Limits:	36-156

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 112670048A

	2,4-Dichlorophenylacetic acid
6409792	54
6409793	78
6409794	116
6409795	100
6409796	42
6409797	51
6409798	126
6409800	69
Blank	86
LCS	98
MS	111
MSD	120
Limits:	36-156

Analysis Name: 19a Glycols by 8015B
Batch number: 112620011A

	Tetramethylene glycol
6409790	82
6409791	92
6409792	87
6409793	90
6409794	92
6409795	90
6409796	81
6409797	75
6409798	78
6409800	81

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Quality Control Summary

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Reported: 10/10/11 at 09:31 AM

Surrogate Quality Control

Blank	86
LCS	90
MS	81
MSD	85

Limits: 29-137

Analysis Name: 18a Alcohols by 8015B
Batch number: 112620030A

	Acetone
6409790	129
6409791	102
6409792	152*
6409793	106
6409794	106
6409795	109
6409797	128
6409798	107
6409800	78
Blank	112
LCS	109
MS	121
MSD	106

Limits: 42-138

Analysis Name: 18a Alcohols by 8015B
Batch number: 112640035A

	Acetone
6409796	77
Blank	99
LCS	94
MS	106
MSD	107

Limits: 42-138

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112650025A

	n-Triacontane-d62
6409790	118
6409791	196*
6409792	257*
6409793	94
6409794	64
6409795	20
6409796	97
6409797	44
6409798	105
6409800	160*
Blank	69
LCS	71
MS	14*
MSD	613*

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267000
Reported: 10/10/11 at 09:31 AM

Surrogate Quality Control

Limits: 19-152

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112660005A

	Chlorobenzene	Orthoterphenyl
6409790	86	120
6409791	79	243*
6409792	93	250*
6409793	82	113
6409794	86	161*
6409795	80	99
6409796	76	100
6409797	75	81
6409798	30*	92
6409800	66	100
Blank	83	95
LCS	84	101
MS	98	117
MSD	87	127
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1267000 Sample# 6409790-800

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers
Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers
SL-009-SA7-SS-0.0-0.5	9/16/14	1010	SOIL	None	1 sleeve + 2 Jars
SL-017-SA7-SS-0.0-0.5		1115			"
SL-052-SA7-SS-0.0-0.5		1050			
SL-053-SA7-SS-0.0-0.5		1130			
SL-083-SA7-SS-0.0-0.5		0845			
SL-165-SA7-SS-0.0-0.5		1210			
SL-022-SA7-SS-0.0-0.5		1440			1 sleeve + 1 Jar
SL-034-SA7-SS-0.0-0.5		1400			1 sleeve + 2 Jars
SL-100-SA7-SS-0.0-0.5		1415			
SL-165-SA7-SS-0.0-0.5		1210			
SL-184-SA7-SS-0.0-0.5		1458			

PRIMARY FOR ALL LOCATIONS	VOCs	SECONDARY FOR ALL LOCATIONS
*Metals EPA 6010/6020B/7471A	Pesticides EPA 8081A	**TPH-EFH EPA 8015B Mod.
*Fluoride EPA 300.0	Herbicides EPA 8151	**Nitrates EPA 300.0
SVOCs EPA 8270C & PAHs 8270 SIM		**Formaldehyde EPA 8315A
PCBs/PCTs EPA 8082		**n-NDMA EPA 1625C
*Dioxin/Furan EPA 1613B		**Energetics EPA 8330A
*Perchlorate EPA 314.0		**Cyanide EPA 9012B
*Hex Chrome EPA 7199@		**Terpenyls EPA 8015B
*pH EPA 9045C		**Glycols EPA 8015B
Perchlorate Confirmation by EPA 6850 (10%)		**Alcohols EPA 8015B
VOCs EPA 8260B $		
1,4-Dioxane EPA 8260SIM $		
TPH-GRO EPA 8015B $		

Other instructions and Notes: only 1 Jar

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
		9/17/14 0915	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8754 3341 5886	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 10, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/17/2011
Group Number: 1267001
SDG: DX137
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-009-SA7-SS-0.0-0.5 Soil	6409801
SL-017-SA7-SS-0.0-0.5 Soil	6409802
SL-052-SA7-SS-0.0-0.5 Soil	6409803
SL-053-SA7-SS-0.0-0.5 Soil	6409804
SL-083-SA7-SS-0.0-0.5 Soil	6409805
SL-165-SA7-SS-0.0-0.5 Soil	6409806
SL-022-SA7-SS-0.0-0.5 Soil	6409807
SL-054-SA7-SS-0.0-0.5 Soil	6409808
SL-100-SA7-SS-0.0-0.5 Soil	6409809
SL-184-SA7-SS-0.0-0.5 Soil	6409811

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-009-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA7-SS-0.0-0.5

LLI Sample # SW 6409801
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 10:10

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3701 SDG#: DX137-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.80	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-009-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA7-SS-0.0-0.5

LLI Sample # SW 6409801
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 10:10

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3701 SDG#: DX137-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.243	J	0.0695	0.988	1
11031	12378-PeCDD	40321-76-4	1.77	JB	0.0797	4.94	1
11031	123478-HxCDD	39227-28-6	2.45	JB	0.0736	4.94	1
11031	123678-HxCDD	57653-85-7	5.22		0.0715	4.94	1
11031	123789-HxCDD	19408-74-3	4.12	J	0.0663	4.94	1
11031	1234678-HpCDD	35822-46-9	97.7	B	0.166	4.94	1
11031	OCDD	3268-87-9	1,140	B	0.136	9.88	1
11031	2378-TCDF	51207-31-9	0.844	J	0.137	0.988	1
11031	12378-PeCDF	57117-41-6	0.784	JB	0.0780	4.94	1
11031	23478-PeCDF	57117-31-4	2.29	JB	0.0706	4.94	1
11031	123478-HxCDF	70648-26-9	1.18	JB	0.0810	4.94	1
11031	123678-HxCDF	57117-44-9	0.765	JB	0.0745	4.94	1
11031	123789-HxCDF	72918-21-9	0.365	JB	0.0569	4.94	1
11031	234678-HxCDF	60851-34-5	0.809	JB	0.0558	4.94	1
11031	1234678-HpCDF	67562-39-4	8.75	B	0.0436	4.94	1
11031	1234789-HpCDF	55673-89-7	0.429	J	0.0461	4.94	1
11031	OCDF	39001-02-0	10.8	B	0.0664	9.88	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	86	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	96	17 - 157
13C12-2378-TCDF	85	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	61	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	91	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	83	26 - 138
13C12-OCDF	81	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-009-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA7-SS-0.0-0.5

LLI Sample # SW 6409801
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 10:10

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3701 SDG#: DX137-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-009-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA7-SS-0.0-0.5

LLI Sample # SW 6409801
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 10:10

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3701 SDG#: DX137-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11271001	09/30/2011 20:44	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11271001	09/28/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11265162401B	09/22/2011 22:12	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-017-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA7-SS-0.0-0.5

LLI Sample # SW 6409802
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:15

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3702 SDG#: DX137-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.85	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA7-SS-0.0-0.5

LLI Sample # SW 6409802
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:15

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3702 SDG#: DX137-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.652 JQ	0.0544	0.979	1
11031	12378-PeCDD	40321-76-4	4.94	0.0806	4.90	1
11031	123478-HxCDD	39227-28-6	9.61	0.101	4.90	1
11031	123678-HxCDD	57653-85-7	34.1	0.0986	4.90	1
11031	123789-HxCDD	19408-74-3	16.9 B	0.0891	4.90	1
11031	1234678-HpCDD	35822-46-9	949 B	0.285	4.90	1
11031	OCDD	3268-87-9	16,600 EB	0.404	9.79	1
11031	2378-TCDF	51207-31-9	2.05 C	0.114	0.979	1
11031	12378-PeCDF	57117-41-6	4.86 J	0.0716	4.90	1
11031	23478-PeCDF	57117-31-4	8.61 B	0.0671	4.90	1
11031	123478-HxCDF	70648-26-9	7.27 B	0.0961	4.90	1
11031	123678-HxCDF	57117-44-9	3.92 J	0.0865	4.90	1
11031	123789-HxCDF	72918-21-9	4.45 J	0.0719	4.90	1
11031	234678-HxCDF	60851-34-5	5.48	0.0675	4.90	1
11031	1234678-HpCDF	67562-39-4	84.6 B	0.0747	4.90	1
11031	1234789-HpCDF	55673-89-7	3.19 J	0.0796	4.90	1
11031	OCDF	39001-02-0	81.3 B	0.0584	9.79	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	57	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	68	17 - 157

*=This limit was used in the evaluation of the final result

Sample Description: **SL-017-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA7-SS-0.0-0.5

LLI Sample # SW 6409802
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:15

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3702 SDG#: DX137-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-017-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA7-SS-0.0-0.5

LLI Sample # SW 6409802
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:15

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3702 SDG#: DX137-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11277001	10/07/2011 03:42	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11277001	10/04/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11265162401B	09/22/2011 22:12	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-052-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-052-SA7-SS-0.0-0.5

LLI Sample # SW 6409803
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 10:50

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3703 SDG#: DX137-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.87	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-052-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-052-SA7-SS-0.0-0.5

LLI Sample # SW 6409803
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 10:50

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3703 SDG#: DX137-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.233 U	0.233	0.969	1
11031	12378-PeCDD	40321-76-4	7.55 B	0.281	4.85	1
11031	123478-HxCDD	39227-28-6	13.1 B	0.286	4.85	1
11031	123678-HxCDD	57653-85-7	34.4	0.286	4.85	1
11031	123789-HxCDD	19408-74-3	24.3	0.256	4.85	1
11031	1234678-HpCDD	35822-46-9	812 B	0.624	4.85	1
11031	OCDD	3268-87-9	10,900 EB	0.596	9.69	1
11650	2378-TCDF-Conf	51207-31-9	1.46 C	0.114	0.969	1
11031	12378-PeCDF	57117-41-6	3.23 JB	0.230	4.85	1
11031	23478-PeCDF	57117-31-4	5.65 B	0.197	4.85	1
11031	123478-HxCDF	70648-26-9	6.44 B	0.244	4.85	1
11031	123678-HxCDF	57117-44-9	4.53 JB	0.213	4.85	1
11031	123789-HxCDF	72918-21-9	2.81 JB	0.191	4.85	1
11031	234678-HxCDF	60851-34-5	4.61 JB	0.173	4.85	1
11031	1234678-HpCDF	67562-39-4	67.6 B	0.213	4.85	1
11031	1234789-HpCDF	55673-89-7	3.14 J	0.231	4.85	1
11031	OCDF	39001-02-0	77.8 B	0.197	9.69	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-2378-TCDF-Conf	69	24 - 169
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	97	23 - 140
13C12-OCDD	103	17 - 157
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	95	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	91	29 - 147
13C12-1234678-HpCDF	78	28 - 143

*=This limit was used in the evaluation of the final result

Sample Description: **SL-052-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-052-SA7-SS-0.0-0.5

LLI Sample # SW 6409803
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 10:50

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3703 SDG#: DX137-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-1234789-HpCDF	90	26 - 138
13C12-OCDF	91	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-052-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-052-SA7-SS-0.0-0.5

LLI Sample # SW 6409803
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 10:50

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3703 SDG#: DX137-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11271001	09/30/2011 22:37	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11271001	10/03/2011 17:22	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11271001	09/28/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11265162401B	09/22/2011 22:12	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-053-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-053-SA7-SS-0.0-0.5

LLI Sample # SW 6409804
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:30

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3704 SDG#: DX137-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.85	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-053-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-053-SA7-SS-0.0-0.5

LLI Sample # SW 6409804
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:30

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3704 SDG#: DX137-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.187	JQ	0.0870	0.998	1
11031	12378-PeCDD	40321-76-4	1.51	JB	0.0951	4.99	1
11031	123478-HxCDD	39227-28-6	2.69	JB	0.0853	4.99	1
11031	123678-HxCDD	57653-85-7	7.85		0.0781	4.99	1
11031	123789-HxCDD	19408-74-3	4.98	J	0.0734	4.99	1
11031	1234678-HpCDD	35822-46-9	212	B	0.211	4.99	1
11031	OCDD	3268-87-9	3,240	B	0.191	9.98	1
11650	2378-TCDF-Conf	51207-31-9	0.875	JC	0.102	0.998	1
11031	12378-PeCDF	57117-41-6	1.37	JB	0.0802	4.99	1
11031	23478-PeCDF	57117-31-4	0.0712	U	0.0712	4.99	1
11031	123478-HxCDF	70648-26-9	1.79	JB	0.0821	4.99	1
11031	123678-HxCDF	57117-44-9	1.03	JB	0.0785	4.99	1
11031	123789-HxCDF	72918-21-9	0.733	JBQ	0.0769	4.99	1
11031	234678-HxCDF	60851-34-5	1.21	JB	0.0703	4.99	1
11031	1234678-HpCDF	67562-39-4	17.5	B	0.0661	4.99	1
11031	1234789-HpCDF	55673-89-7	0.907	J	0.0813	4.99	1
11031	OCDF	39001-02-0	21.6	B	0.0761	9.98	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-2378-TCDF-Conf	69	24 - 169
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	93	28 - 130
13C12-1234678-HpCDD	96	23 - 140
13C12-OCDD	98	17 - 157
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	88	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	87	26 - 138
13C12-OCDF	87	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-053-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-053-SA7-SS-0.0-0.5

LLI Sample # SW 6409804
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:30

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3704 SDG#: DX137-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-053-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-053-SA7-SS-0.0-0.5

LLI Sample # SW 6409804
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 11:30

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3704 SDG#: DX137-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11271001	09/30/2011 23:33	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11271001	10/03/2011 21:59	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11271001	09/28/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11265162401B	09/22/2011 22:12	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-083-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-083-SA7-SS-0.0-0.5

LLI Sample # SW 6409805
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:45

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3705 SDG#: DX137-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-083-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-083-SA7-SS-0.0-0.5

LLI Sample # SW 6409805
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:45

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3705 SDG#: DX137-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0674	U	0.0674	1.00	1
11031	12378-PeCDD	40321-76-4	0.527	JBQ	0.0565	5.02	1
11031	123478-HxCDD	39227-28-6	0.824	JB	0.0665	5.02	1
11031	123678-HxCDD	57653-85-7	1.69	J	0.0616	5.02	1
11031	123789-HxCDD	19408-74-3	1.45	J	0.0559	5.02	1
11031	1234678-HpCDD	35822-46-9	28.2	B	0.0911	5.02	1
11031	OCDD	3268-87-9	299	B	0.0844	10.0	1
11031	2378-TCDF	51207-31-9	0.0929	J	0.0688	1.00	1
11031	12378-PeCDF	57117-41-6	0.110	JB	0.0432	5.02	1
11031	23478-PeCDF	57117-31-4	0.396	JB	0.0398	5.02	1
11031	123478-HxCDF	70648-26-9	0.479	JB	0.0513	5.02	1
11031	123678-HxCDF	57117-44-9	0.321	JBQ	0.0476	5.02	1
11031	123789-HxCDF	72918-21-9	0.131	JB	0.0346	5.02	1
11031	234678-HxCDF	60851-34-5	0.246	JB	0.0333	5.02	1
11031	1234678-HpCDF	67562-39-4	2.73	JB	0.0607	5.02	1
11031	1234789-HpCDF	55673-89-7	0.273	JQ	0.0563	5.02	1
11031	OCDF	39001-02-0	3.98	JB	0.0594	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	93	28 - 130
13C12-1234678-HpCDD	95	23 - 140
13C12-OCDD	95	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	51	26 - 152
13C12-123678-HxCDF	54	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	66	28 - 143
13C12-1234789-HpCDF	87	26 - 138
13C12-OCDF	82	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-083-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-083-SA7-SS-0.0-0.5

LLI Sample # SW 6409805
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:45

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3705 SDG#: DX137-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-083-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-083-SA7-SS-0.0-0.5

LLI Sample # SW 6409805
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 08:45

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3705 SDG#: DX137-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11271001	10/01/2011 00:30	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11271001	09/28/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11265162401B	09/22/2011 22:12	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-165-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-165-SA7-SS-0.0-0.5

LLI Sample # SW 6409806
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 12:10

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3706 SDG#: DX137-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.94	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-165-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-165-SA7-SS-0.0-0.5

LLI Sample # SW 6409806
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 12:10

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3706 SDG#: DX137-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0998	JQ	0.0545	0.985	1
11031	12378-PeCDD	40321-76-4	0.429	JB	0.0472	4.92	1
11031	123478-HxCDD	39227-28-6	0.336	JB	0.0522	4.92	1
11031	123678-HxCDD	57653-85-7	0.590	J	0.0503	4.92	1
11031	123789-HxCDD	19408-74-3	0.601	JQ	0.0464	4.92	1
11031	1234678-HpCDD	35822-46-9	15.5	B	0.0675	4.92	1
11031	OCDD	3268-87-9	220	B	0.0795	9.85	1
11031	2378-TCDF	51207-31-9	0.165	J	0.0489	0.985	1
11031	12378-PeCDF	57117-41-6	0.284	JB	0.0341	4.92	1
11031	23478-PeCDF	57117-31-4	0.368	JB	0.0297	4.92	1
11031	123478-HxCDF	70648-26-9	0.703	JB	0.0536	4.92	1
11031	123678-HxCDF	57117-44-9	0.211	JB	0.0531	4.92	1
11031	123789-HxCDF	72918-21-9	0.169	JB	0.0299	4.92	1
11031	234678-HxCDF	60851-34-5	0.177	JB	0.0295	4.92	1
11031	1234678-HpCDF	67562-39-4	1.28	JB	0.0431	4.92	1
11031	1234789-HpCDF	55673-89-7	0.142	J	0.0319	4.92	1
11031	OCDF	39001-02-0	1.92	JB	0.0477	9.85	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	93	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	43	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	54	28 - 143
13C12-1234789-HpCDF	87	26 - 138
13C12-OCDF	83	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-165-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-165-SA7-SS-0.0-0.5

LLI Sample # SW 6409806
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 12:10

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3706 SDG#: DX137-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-165-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-165-SA7-SS-0.0-0.5

LLI Sample # SW 6409806
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 12:10

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3706 SDG#: DX137-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11271001	10/01/2011 01:27	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11271001	09/28/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11265162401B	09/22/2011 22:12	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-022-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA7-SS-0.0-0.5

LLI Sample # SW 6409807
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:40

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3707 SDG#: DX137-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.84	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-022-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA7-SS-0.0-0.5

LLI Sample # SW 6409807
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:40

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3707 SDG#: DX137-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.724	J	0.0732	0.976	1
11031	12378-PeCDD	40321-76-4	1.59	JB	0.0870	4.88	1
11031	123478-HxCDD	39227-28-6	2.93	JB	0.0867	4.88	1
11031	123678-HxCDD	57653-85-7	8.23		0.0868	4.88	1
11031	123789-HxCDD	19408-74-3	4.73	J	0.0763	4.88	1
11031	1234678-HpCDD	35822-46-9	198	B	0.188	4.88	1
11031	OCDD	3268-87-9	2,210	B	0.164	9.76	1
11031	2378-TCDF	51207-31-9	0.955	J	0.122	0.976	1
11031	12378-PeCDF	57117-41-6	2.23	JB	0.0831	4.88	1
11031	23478-PeCDF	57117-31-4	2.18	JB	0.0761	4.88	1
11031	123478-HxCDF	70648-26-9	2.93	JB	0.0744	4.88	1
11031	123678-HxCDF	57117-44-9	1.68	JB	0.0684	4.88	1
11031	123789-HxCDF	72918-21-9	0.744	JB	0.0708	4.88	1
11031	234678-HxCDF	60851-34-5	1.91	JB	0.0673	4.88	1
11031	1234678-HpCDF	67562-39-4	24.6	B	0.0572	4.88	1
11031	1234789-HpCDF	55673-89-7	1.58	J	0.0665	4.88	1
11031	OCDF	39001-02-0	42.4	B	0.0649	9.76	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	94	23 - 140
13C12-OCDD	99	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	87	26 - 138
13C12-OCDF	86	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-022-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA7-SS-0.0-0.5

LLI Sample # SW 6409807
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:40

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3707 SDG#: DX137-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-022-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA7-SS-0.0-0.5

LLI Sample # SW 6409807
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:40

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3707 SDG#: DX137-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11271001	10/01/2011 02:23	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11271001	09/28/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11265162401B	09/22/2011 22:12	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-054-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA7-SS-0.0-0.5

LLI Sample # SW 6409808
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:00

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3708 SDG#: DX137-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.78	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-054-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA7-SS-0.0-0.5

LLI Sample # SW 6409808
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:00

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3708 SDG#: DX137-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.366	J	0.0738	0.990	1
11031	12378-PeCDD	40321-76-4	2.46	JB	0.0979	4.95	1
11031	123478-HxCDD	39227-28-6	4.57	JB	0.0905	4.95	1
11031	123678-HxCDD	57653-85-7	14.6		0.0918	4.95	1
11031	123789-HxCDD	19408-74-3	7.55		0.0852	4.95	1
11031	1234678-HpCDD	35822-46-9	415	B	0.257	4.95	1
11031	OCDD	3268-87-9	5,840	EB	0.305	9.90	1
11650	2378-TCDF-Conf	51207-31-9	1.05	C	0.139	0.990	1
11031	12378-PeCDF	57117-41-6	3.39	JB	0.0850	4.95	1
11031	23478-PeCDF	57117-31-4	3.47	JB	0.0744	4.95	1
11031	123478-HxCDF	70648-26-9	3.14	JB	0.0760	4.95	1
11031	123678-HxCDF	57117-44-9	2.05	JB	0.0732	4.95	1
11031	123789-HxCDF	72918-21-9	1.52	JB	0.0730	4.95	1
11031	234678-HxCDF	60851-34-5	2.26	JB	0.0681	4.95	1
11031	1234678-HpCDF	67562-39-4	29.2	B	0.0640	4.95	1
11031	1234789-HpCDF	55673-89-7	1.40	J	0.0785	4.95	1
11031	OCDF	39001-02-0	31.1	B	0.0747	9.90	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	95	25 - 164
13C12-2378-TCDF-Conf	79	24 - 169
13C12-12378-PeCDD	94	25 - 181
13C12-123478-HxCDD	98	32 - 141
13C12-123678-HxCDD	97	28 - 130
13C12-123789-HxCDD	100	28 - 130
13C12-1234678-HpCDD	102	23 - 140
13C12-OCDD	99	17 - 157
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	95	21 - 178
13C12-123478-HxCDF	86	26 - 152
13C12-123678-HxCDF	89	26 - 123
13C12-234678-HxCDF	92	28 - 136
13C12-123789-HxCDF	98	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	97	26 - 138
13C12-OCDF	89	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-054-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA7-SS-0.0-0.5

LLI Sample # SW 6409808
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:00

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3708 SDG#: DX137-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-054-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-054-SA7-SS-0.0-0.5

LLI Sample # SW 6409808
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:00

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3708 SDG#: DX137-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11271001	10/01/2011 03:20	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11271001	10/03/2011 23:05	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11271001	09/28/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11272162401B	09/29/2011 21:46	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-100-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA7-SS-0.0-0.5

LLI Sample # SW 6409809
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:15

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3709 SDG#: DX137-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.72	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-100-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA7-SS-0.0-0.5

LLI Sample # SW 6409809
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:15

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3709 SDG#: DX137-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0724	JQ	0.0642	0.961	1
11031	12378-PeCDD	40321-76-4	0.577	JBQ	0.0636	4.81	1
11031	123478-HxCDD	39227-28-6	1.01	JB	0.0680	4.81	1
11031	123678-HxCDD	57653-85-7	2.23	J	0.0669	4.81	1
11031	123789-HxCDD	19408-74-3	1.73	J	0.0634	4.81	1
11031	1234678-HpCDD	35822-46-9	63.0	B	0.123	4.81	1
11031	OCDD	3268-87-9	921	B	0.125	9.61	1
11031	2378-TCDF	51207-31-9	0.0725	JQ	0.0678	0.961	1
11031	12378-PeCDF	57117-41-6	0.987	JB	0.0451	4.81	1
11031	23478-PeCDF	57117-31-4	0.427	JB	0.0389	4.81	1
11031	123478-HxCDF	70648-26-9	0.471	JB	0.0472	4.81	1
11031	123678-HxCDF	57117-44-9	0.502	JB	0.0466	4.81	1
11031	123789-HxCDF	72918-21-9	0.199	JB	0.0483	4.81	1
11031	234678-HxCDF	60851-34-5	0.337	JB	0.0453	4.81	1
11031	1234678-HpCDF	67562-39-4	3.71	JB	0.0312	4.81	1
11031	1234789-HpCDF	55673-89-7	0.181	JQ	0.0382	4.81	1
11031	OCDF	39001-02-0	4.13	JB	0.0624	9.61	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	94	17 - 157
13C12-2378-TCDF	84	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	85	26 - 138
13C12-OCDF	83	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-100-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA7-SS-0.0-0.5

LLI Sample # SW 6409809
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:15

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3709 SDG#: DX137-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-100-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-100-SA7-SS-0.0-0.5

LLI Sample # SW 6409809
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:15

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3709 SDG#: DX137-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11271001	10/01/2011 07:19	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11271001	09/28/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11265162401B	09/22/2011 22:12	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-184-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-184-SA7-SS-0.0-0.5

LLI Sample # SW 6409811
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:58

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3711 SDG#: DX137-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.69	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-184-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-184-SA7-SS-0.0-0.5

LLI Sample # SW 6409811
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:58

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3711 SDG#: DX137-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.375	JQ	0.313	0.986	1
11031	12378-PeCDD	40321-76-4	3.18	JB	0.351	4.93	1
11031	123478-HxCDD	39227-28-6	6.31	B	0.393	4.93	1
11031	123678-HxCDD	57653-85-7	17.3		0.366	4.93	1
11031	123789-HxCDD	19408-74-3	11.9		0.340	4.93	1
11031	1234678-HpCDD	35822-46-9	413	B	0.594	4.93	1
11031	OCDD	3268-87-9	4,750	EB	0.648	9.86	1
11650	2378-TCDF-Conf	51207-31-9	1.61	C	0.114	0.986	1
11031	12378-PeCDF	57117-41-6	14.0	B	0.400	4.93	1
11031	23478-PeCDF	57117-31-4	5.23	B	0.336	4.93	1
11031	123478-HxCDF	70648-26-9	14.2	B	0.321	4.93	1
11031	123678-HxCDF	57117-44-9	3.97	JB	0.308	4.93	1
11031	123789-HxCDF	72918-21-9	0.324	U	0.324	4.93	1
11031	234678-HxCDF	60851-34-5	3.54	JB	0.295	4.93	1
11031	1234678-HpCDF	67562-39-4	48.4	B	0.206	4.93	1
11031	1234789-HpCDF	55673-89-7	2.30	J	0.281	4.93	1
11031	OCDF	39001-02-0	61.4	B	0.250	9.86	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-2378-TCDF-Conf	64	24 - 169
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	91	17 - 157
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	80	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-184-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-184-SA7-SS-0.0-0.5

LLI Sample # SW 6409811
LLI Group # 1267001
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/16/2011 14:58

Submitted: 09/17/2011 09:15
Reported: 10/10/2011 17:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3711 SDG#: DX137-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-184-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-184-SA7-SS-0.0-0.5

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3711 SDG#: DX137-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11271001	10/01/2011 08:16	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11271001	10/04/2011 00:11	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11271001	09/28/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11265162401B	09/22/2011 22:12	Scott W Freisher	1

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267001
Reported: 10/10/11 at 05:08 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11265162401B	Sample number(s): 6409801-6409807,6409809,6409811								
Moisture Content by 160.3					100		80-120		
Batch number: 11272162401B	Sample number(s): 6409808								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11271001	Sample number(s): 6409801,6409803-6409809,6409811								
2378-TCDD	0.114 U	0.114	1.00	ng/kg	106		67-158		
12378-PeCDD	0.0795 J	0.0669	5.00	ng/kg	103		70-142		
123478-HxCDD	0.0466 J	0.0419	5.00	ng/kg	103		70-164		
123678-HxCDD	0.0418 U	0.0418	5.00	ng/kg	99		76-134		
123789-HxCDD	0.0388 U	0.0388	5.00	ng/kg	99		64-162		
1234678-HpCDD	0.326 J	0.0547	5.00	ng/kg	100		70-140		
OCDD	0.441 J	0.0441	10.0	ng/kg	98		78-144		
2378-TCDF	0.0754 U	0.0754	1.00	ng/kg	96		75-158		
2378-TCDF-Conf	0.147 U	0.147	1.00	ng/kg	96		75-158		
12378-PeCDF	0.0525 J	0.0378	5.00	ng/kg	100		80-134		
23478-PeCDF	0.0507 J	0.0339	5.00	ng/kg	99		68-160		
123478-HxCDF	0.0552 J	0.0323	5.00	ng/kg	98		72-134		
123678-HxCDF	0.0403 J	0.0288	5.00	ng/kg	98		84-130		
123789-HxCDF	0.0603 J	0.0296	5.00	ng/kg	98		78-130		
234678-HxCDF	0.0638 J	0.0259	5.00	ng/kg	97		70-156		
1234678-HpCDF	0.159 J	0.0197	5.00	ng/kg	96		82-122		
1234789-HpCDF	0.0249 U	0.0249	5.00	ng/kg	99		78-138		
OCDF	0.135 J	0.0596	10.0	ng/kg	97		63-170		
Batch number: 11277001	Sample number(s): 6409802								
2378-TCDD	0.0623 U	0.0623	1.00	ng/kg	103		67-158		
12378-PeCDD	0.0424 U	0.0424	5.00	ng/kg	104		70-142		
123478-HxCDD	0.0327 U	0.0327	5.00	ng/kg	102		70-164		
123678-HxCDD	0.0324 U	0.0324	5.00	ng/kg	99		76-134		
123789-HxCDD	0.0435 J	0.0315	5.00	ng/kg	100		64-162		
1234678-HpCDD	0.205 J	0.0433	5.00	ng/kg	101		70-140		
OCDD	0.353 J	0.0360	10.0	ng/kg	97		78-144		
2378-TCDF	0.0456 U	0.0456	1.00	ng/kg	102		75-158		
12378-PeCDF	0.0265 U	0.0265	5.00	ng/kg	100		80-134		
23478-PeCDF	0.0451 J	0.0252	5.00	ng/kg	98		68-160		
123478-HxCDF	0.0332 J	0.0234	5.00	ng/kg	99		72-134		
123678-HxCDF	0.0202 U	0.0202	5.00	ng/kg	96		84-130		
123789-HxCDF	0.0251 U	0.0251	5.00	ng/kg	99		78-130		
234678-HxCDF	0.0214 U	0.0214	5.00	ng/kg	98		70-156		
1234678-HpCDF	0.0902 J	0.0149	5.00	ng/kg	95		82-122		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267001
Reported: 10/10/11 at 05:08 PM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
1234789-HpCDF	0.0239	U	0.0239	5.00	ng/kg	99		78-138		
OCDF	0.108	J	0.0578	10.0	ng/kg	98		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11265162401B	Sample number(s): 6409801-6409807,6409809,6409811					BKG: P401597			
Moisture Content by 160.3						9.3	9.4	1	20
Batch number: 11272162401B	Sample number(s): 6409808		BKG: P412126						
Moisture Content by 160.3						6.6	7.0	5	20
Batch number: 11271001	Sample number(s): 6409801,6409803-6409809,6409811					UNSPK: P412180			
2378-TCDD	101	103	67-158	2	25				
12378-PeCDD	103	104	70-142	2	25				
123478-HxCDD	102	100	70-164	2	25				
123678-HxCDD	97	98	76-134	1	25				
123789-HxCDD	99	100	64-162	0	25				
1234678-HpCDD	108	104	70-140	3	25				
OCDD	147*	122	78-144	10	25				
2378-TCDF	93	96	75-158	3	25				
2378-TCDF-Conf	93	96	75-158	3	25				
12378-PeCDF	99	101	80-134	2	25				
23478-PeCDF	97	98	68-160	1	25				
123478-HxCDF	98	97	72-134	1	25				
123678-HxCDF	98	98	84-130	1	25				
123789-HxCDF	98	100	78-130	3	25				
234678-HxCDF	98	99	70-156	1	25				
1234678-HpCDF	98	97	82-122	1	25				
1234789-HpCDF	97	97	78-138	0	25				
OCDF	99	99	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11271001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6409801	86	87	57	61	79	91
6409803	80	95	63	67	82	91
6409804	81	84	73	76	79	88
6409805	82	82	51	54	78	86
6409806	79	81	41	43	77	85
6409807	81	82	75	77	79	87
6409808	95	95	86	89	92	98

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267001
Reported: 10/10/11 at 05:08 PM

Surrogate Quality Control

6409809	83	84	76	77	78	86
6409811	72	72	67	71	73	81
Blank	74	82	67	74	78	83
MS	78	80	58	63	75	82
MSD	79	78	71	75	76	84
OPR	72	79	67	70	81	85
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6409801	72	83	81	89	83	85
6409803	78	90	91	92	85	88
6409804	85	87	87	86	84	89
6409805	66	87	82	85	83	87
6409806	54	87	83	83	77	81
6409807	84	87	86	83	84	85
6409808	94	97	89	94	98	97
6409809	84	85	83	86	83	85
6409811	81	79	80	75	78	89
Blank	90	84	84	86	85	87
MS	71	76	74	81	77	84
MSD	85	79	77	80	82	86
OPR	87	88	89	82	83	85
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6409801	86	92	96	85	85	
6409803	88	97	103		92	69
6409804	93	96	98		85	69
6409805	93	95	95	81	83	
6409806	86	93	92	80	81	
6409807	90	94	99	82	82	
6409808	100	102	99		91	79
6409809	86	92	94	84	83	
6409811	89	89	91		71	64
Blank	86	97	101	74	81	64
MS	88	85	87	78	82	78
MSD	88	89	90	78	80	78
OPR	89	98	106	72	79	72
Limits:	28-130	23-140	17-157	24-169	24-185	24-169

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11277001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6409802	78	70	53	57	71	79
Blank	67	61	60	68	66	68
OPR	66	59	59	70	67	62
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267001
Reported: 10/10/11 at 05:08 PM

Surrogate Quality Control

6409802	62	71	68	72	76	80
Blank	81	62	59	67	73	77
OPR	86	56	52	66	76	80
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6409802	84	80	77	76	70	
Blank	74	79	76	61	65	57
OPR	79	77	74	59	66	59
Limits:	28-130	23-140	17-157	24-169	24-185	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Ap# 1267001 Sample# 6409801-11

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
@ For hex chrome analysis, lab will measure pH and ORP
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers
SL-009-SA7-SS-0.0-0.5	9/16/11	1010	SOIL	None	1Sleeve + 2Jars
SL-017-SA7-SS-0.0-0.5		1115			1
SL-052-SA7-SS-0.0-0.5		1050			
SL-053-SA7-SS-0.0-0.5		1130			
SL-083-SA7-SS-0.0-0.5		0845			
SL-165-SA7-SS-0.0-0.5		1210			
SL-622-SA7-SS-0.0-0.5		1440			1Sleeve + 1Jar
SL-654-SA7-SS-0.0-0.5		1400			1Sleeve + 2Jars
SL-100-SA7-SS-0.0-0.5		1415			
SL-165-SA7-SS-0.0-0.5		1210			
SL-184-SA7-SS-0.0-0.5		1458			

PRIMARY FOR ALL LOCATIONS

Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	SVOCs EPA 8270C & PAHs 8270 SIM	PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199@	pH EPA 9045C	Perchlorate Confirmation by EPA 6850 (10%)
1Sleeve + 2Jars	X	X	X	X	X	X	X	X	
1	X	X	X	X	X	X	X	X	X
	X	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	X	
1Sleeve + 1Jar	X	X	X	X	X	X	X	X	
1Sleeve + 2Jars	X	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	X	
	X	X	X	X	X	X	X	X	

VOCs

*VOCs EPA 8260B $	*1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $
X	X	
X	X	
X	X	
X	X	
X	X	
X	X	
X	X	
X	X	
X	X	
X	X	

SECONDARY FOR ALL LOCATIONS

**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B
X					X	X	X	X
X					X	X	X	X
X					X	X	X	X
X					X	X	X	X
X					X	X	X	X
X					X	X	X	X
X	X	X	X	X	X	X	X	X
X					X	X	X	X
X					X	X	X	X
X					X	X	X	X

Other Instructions and Notes

only 1 Jar

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)		Laboratory:
		9/17/11 0915		Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**		
		8754 3341 5886		

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 20, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/20/2011
Group Number: 1267306
SDG: DE247
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-002-SA7-SS-0.0-0.5 Soil	6412108
SL-003-SA7-SS-0.0-0.5 Soil	6412109
SL-004-SA7-SS-0.0-0.5 Soil	6412110
SL-042-SA7-SS-0.0-0.5 Soil	6412111
SL-042-SA7-SS-0.0-0.5MS Soil	6412112
SL-042-SA7-SS-0.0-0.5MSD Soil	6412113
SL-042-SA7-SS-0.0-0.5DUP Soil	6412114
SL-042-SA7-SS-0.0-0.5RL MS Soil	6412115
SL-042-SA7-SS-0.0-0.5RL LCS Soil	6412116
SL-048-SA7-SS-0.0-0.5 Soil	6412117
SL-110-SA7-SS-0.0-0.5 Soil	6412118
SL-111-SA7-SS-0.0-0.5 Soil	6412119
SL-122-SA7-SS-0.0-0.5 Soil	6412120
SL-130-SA7-SS-0.0-0.5 Soil	6412121
SL-133-SA7-SS-0.0-0.5 Soil	6412122
DUP02-SA7-QC-091911 Soil	6412123
SL-025-SA7-SB-4.0-5.0 Soil	6412124
SL-025-SA7-SB-9.0-10.0 Soil	6412125
SL-032-SA7-SB-4.0-5.0 Soil	6412126
SL-032-SA7-SB-9.0-10.0 Soil	6412127
SL-144-SA7-SB-4.0-5.0 Soil	6412128
SL-144-SA7-SB-9.0-10.0 Soil	6412129
SL-145-SA7-SB-4.0-5.0 Soil	6412130
SL-145-SA7-SB-9.0-10.0 Soil	6412131
TB-091911 Water	6412132

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-002-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA7-SS-0.0-0.5

LLI Sample # SW 6412108
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 10:20

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4701 SDG#: DE247-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	16.6	U	16.6	33.2		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	97	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-002-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA7-SS-0.0-0.5

LLI Sample # SW 6412108
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 10:20

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4701 SDG#: DE247-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.4		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.4		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.4		5
10138	Benzo(a)anthracene	56-55-3	3.4	U	3.4	8.4		5
10138	Benzo(a)pyrene	50-32-8	3.4	U	3.4	8.4		5
10138	Benzo(b)fluoranthene	205-99-2	11		3.4	8.4		5
10138	Benzo(g,h,i)perylene	191-24-2	3.4	U	3.4	8.4		5
10138	Benzo(k)fluoranthene	207-08-9	3.4	U	3.4	8.4		5
10138	Chrysene	218-01-9	2.1	J	1.7	8.4		5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.4		5
10138	Fluoranthene	206-44-0	3.4	U	3.4	8.4		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.4		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.4	U	3.4	8.4		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.4		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.4		5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4		5
10138	Phenanthrene	85-01-8	3.4	U	3.4	8.4		5
10138	Pyrene	129-00-0	3.4	U	3.4	8.4		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	40	U	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1

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Sample Description: **SL-002-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA7-SS-0.0-0.5

LLI Sample # SW 6412108
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 10:20

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4701 SDG#: DE247-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	40	U	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	40	U	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	40	U	40	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	40	U	40	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	40	U	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	40	U	40	120	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	7.2		0.63	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.12	U	0.12	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. Reporting limits were raised due to interference from the sample matrix.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	770	J	610	1,500		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-002-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA7-SS-0.0-0.5

LLI Sample # SW 6412108
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 10:20

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4701 SDG#: DE247-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	2.7	J	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.45		0.067	0.34		1
01363	p,p-DDT	50-29-3	1.0		0.067	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.13	U	0.13	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.15	U	0.15	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
Reporting limits were raised due to interference from the sample matrix.								
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1
10225	PCB-1260	11096-82-5	3.5		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	360	J	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1

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Sample Description: **SL-002-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA7-SS-0.0-0.5

LLI Sample # SW 6412108
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Project Name: SSFL Area IV Collocated Soil Sampling

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E4701 SDG#: DE247-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	0.98	J	0.40	1.2		1
10199	EFH (C21-C30)	n.a.	12		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	18		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.40	U	0.40	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,800		6.12	20.2		1
07914	Boron	7440-42-8	0.364	U	0.364	5.06		1
01650	Calcium	7440-70-2	2,950		2.53	20.2		1
01654	Iron	7439-89-6	20,700		2.64	20.2		1
01656	Lithium	7439-93-2	27.2		0.63	2.0		1
01657	Magnesium	7439-95-4	4,890		0.445	10.1		1
06958	Manganese	7439-96-5	264		0.0364	0.506		1
10145	Phosphorus	7723-14-0	419		0.354	10.1		1
01662	Potassium	7440-09-7	3,810		11.4	50.6		1
01667	Sodium	7440-23-5	63.4	J	6.02	101		1
07968	Strontium	7440-24-6	11.6		0.0253	0.506		1
06969	Tin	7440-31-5	2.79	J	0.324	10.1		1
06970	Titanium	7440-32-6	1,080		0.0718	1.01		1
10146	Zirconium	7440-67-7	2.31	J	0.465	5.06		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.256		0.0734	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.91		0.0793	0.397		2
06126	Barium	7440-39-3	101		0.105	0.397		2
06127	Beryllium	7440-41-7	0.562		0.0159	0.0991		2
06128	Cadmium	7440-43-9	0.183		0.0436	0.0991		2
06131	Chromium	7440-47-3	19.2		0.119	0.397		2
06132	Cobalt	7440-48-4	6.73		0.0198	0.0991		2
06133	Copper	7440-50-8	10.0		0.0793	0.397		2
06135	Lead	7439-92-1	11.6		0.0101	0.198		2
06138	Molybdenum	7439-98-7	0.427		0.0496	0.0991		2
06139	Nickel	7440-02-0	13.4		0.0991	0.397		2
06141	Selenium	7782-49-2	0.155	J	0.0575	0.397		2
06142	Silver	7440-22-4	0.0451	J	0.0141	0.0991		2
06145	Thallium	7440-28-0	0.294		0.0297	0.0991		2
06148	Vanadium	7440-62-2	39.4		0.0218	0.0991		2

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Sample Description: **SL-002-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA7-SS-0.0-0.5

LLI Sample # SW 6412108
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 10:20

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4701 SDG#: DE247-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06149	Zinc	7440-66-6	134		0.555	2.97		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0162	J	0.0069	0.0975		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.82	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	J	0.19	0.96		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.22		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11265SLB026	09/29/2011 19:08	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11267SLH026	09/30/2011 14:46	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLD026	10/07/2011 00:50	Gregory J Drahovsky	5
11630	NDMA Soil Microwave	SW-846 3546	1	11265SLB026	09/23/2011 10:30	Olivia Arosemena	1

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Sample Description: **SL-002-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA7-SS-0.0-0.5

LLI Sample # SW 6412108
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 10:20

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4701 SDG#: DE247-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLD026	09/27/2011 18:00	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11267SLH026	09/28/2011 11:45	Olivia I Santiago	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112640025A	09/24/2011 11:32	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670007A	09/28/2011 17:16	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670048A	09/29/2011 19:37	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670033A	09/30/2011 17:18	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670023A	09/28/2011 11:58	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112670033A	09/27/2011 11:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670023A	09/27/2011 10:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670048A	09/28/2011 02:00	David V Hershey Jr	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670007A	09/26/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112640025A	09/22/2011 11:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112640035A	09/22/2011 22:49	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112640014A	09/22/2011 10:22	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112670016A	09/26/2011 23:35	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112660005A	09/27/2011 12:20	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112660005A	09/23/2011 15:00	Wanda F Oswald	1
10303	Terphenyls soil prep	SW-846 3550B	1	112670016A	09/26/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112640035A	09/22/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112640014A	09/22/2011 07:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112645708002	09/29/2011 13:54	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112645708002	09/30/2011 11:08	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112645708002	09/29/2011 13:54	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112645708002	09/29/2011 13:54	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112645708002	09/29/2011 13:54	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112645708002	09/29/2011 13:54	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112645708002	09/30/2011 11:08	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112645708002	09/29/2011 13:54	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112645708002	09/29/2011 13:54	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112645708002	09/29/2011 13:54	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112645708002	09/30/2011 11:08	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112645708002	09/29/2011 13:54	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112645708002	09/29/2011 13:54	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112645708002	09/29/2011 13:54	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112641026001A	09/22/2011 11:34	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112641026001A	09/22/2011 11:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112641026001D	09/22/2011 11:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112641026001A	09/22/2011 11:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112641026001A	09/22/2011 11:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112641026001A	09/22/2011 11:34	Choon Y Tian	2

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Sample Description: SL-002-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA7-SS-0.0-0.5

LLI Sample # SW 6412108
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 10:20

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4701 SDG#: DE247-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	112641026001A	09/22/2011 11:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112641026001A	09/22/2011 11:34	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112641026001A	09/22/2011 11:34	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112641026001C	09/22/2011 11:34	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112641026001A	09/22/2011 11:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112641026001B	09/22/2011 11:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112641026001A	09/22/2011 11:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112641026001A	09/22/2011 11:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112641026001A	09/22/2011 11:34	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112641026001A	09/22/2011 11:34	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112645711001	09/22/2011 09:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112645708002	09/21/2011 19:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112641026001	09/21/2011 19:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112645711001	09/21/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11270621202A	09/28/2011 20:48	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11270621202A	09/28/2011 20:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11266621201A	09/27/2011 16:37	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11273243201A	10/04/2011 12:38	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11273102201A	10/03/2011 08:51	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11270621202A	09/27/2011 07:25	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621201A	09/23/2011 05:35	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11273102201A	09/30/2011 15:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039403A	09/26/2011 10:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11273243201A	09/30/2011 09:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11272162401B	09/29/2011 21:46	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-003-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA7-SS-0.0-0.5

LLI Sample # SW 6412109
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:20

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4702 SDG#: DE247-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	850	U	850	2,500		5
04688	Benzidine	92-87-5	5,900	U	5,900	17,000		5
04688	Benzoic acid	65-85-0	850	U	850	2,500		5
04688	Benzyl alcohol	100-51-6	850	U	850	2,500		5
04688	4-Bromophenyl-phenylether	101-55-3	85	U	85	850		5
04688	Carbazole	86-74-8	85	U	85	850		5
04688	4-Chloro-3-methylphenol	59-50-7	170	U	170	850		5
04688	4-Chloroaniline	106-47-8	340	U	340	850		5
04688	bis(2-Chloroethoxy)methane	111-91-1	85	U	85	850		5
04688	bis(2-Chloroethyl)ether	111-44-4	85	U	85	850		5
04688	bis(2-Chloroisopropyl)ether	39638-32-9	85	U	85	850		5
04688	2-Chloronaphthalene	91-58-7	85	U	85	850		5
04688	2-Chlorophenol	95-57-8	85	U	85	850		5
04688	4-Chlorophenyl-phenylether	7005-72-3	170	U	170	850		5
04688	Dibenzofuran	132-64-9	85	U	85	850		5
04688	1,2-Dichlorobenzene	95-50-1	85	U	85	850		5
04688	1,3-Dichlorobenzene	541-73-1	85	U	85	850		5
04688	1,4-Dichlorobenzene	106-46-7	85	U	85	850		5
04688	3,3'-Dichlorobenzidine	91-94-1	510	U	510	1,700		5
04688	2,4-Dichlorophenol	120-83-2	85	U	85	850		5
04688	2,4-Dimethylphenol	105-67-9	170	U	170	850		5
04688	3,5-Dimethylphenol	108-68-9	170	U	170	850		5
04688	4,6-Dinitro-2-methylphenol	534-52-1	850	U	850	2,500		5
04688	2,4-Dinitrophenol	51-28-5	1,700	U	1,700	5,100		5
04688	2,4-Dinitrotoluene	121-14-2	170	U	170	850		5
04688	2,6-Dinitrotoluene	606-20-2	85	U	85	850		5
04688	1,2-Diphenylhydrazine	122-66-7	85	U	85	850		5
04688	Fluoranthene	206-44-0	85	J	85	850		5
04688	Hexachlorobenzene	118-74-1	85	U	85	850		5
04688	Hexachlorobutadiene	87-68-3	340	U	340	850		5
04688	Hexachlorocyclopentadiene	77-47-4	850	U	850	2,500		5
04688	Hexachloroethane	67-72-1	85	U	85	850		5
04688	Isophorone	78-59-1	85	U	85	850		5
04688	2-Methylphenol	95-48-7	170	U	170	850		5
04688	4-Methylphenol	106-44-5	170	U	170	850		5
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	85	U	85	850		5
04688	3-Nitroaniline	99-09-2	170	U	170	850		5
04688	4-Nitroaniline	100-01-6	340	U	340	850		5
04688	Nitrobenzene	98-95-3	85	U	85	850		5
04688	2-Nitrophenol	88-75-5	85	U	85	850		5
04688	4-Nitrophenol	100-02-7	850	U	850	2,500		5
04688	N-Nitroso-di-n-propylamine	621-64-7	85	U	85	850		5
04688	N-Nitrosodiphenylamine	86-30-6	85	U	85	850		5
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	850	U	850	2,500		5

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Sample Description: SL-003-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA7-SS-0.0-0.5

LLI Sample # SW 6412109
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:20

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4702 SDG#: DE247-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	85	U	85	850		5
04688	Pyrene	129-00-0	95	J	85	850		5
04688	Tetralin	119-64-2	850	U	850	850		5
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	85	U	85	850		5
04688	2,4,5-Trichlorophenol	95-95-4	170	U	170	850		5
04688	2,4,6-Trichlorophenol	88-06-2	170	U	170	850		5
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.5		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.5		5
10138	Anthracene	120-12-7	2.2	J	1.7	8.5		5
10138	Benzo(a)anthracene	56-55-3	6.5	J	3.4	8.5		5
10138	Benzo(a)pyrene	50-32-8	10		3.4	8.5		5
10138	Benzo(b)fluoranthene	205-99-2	32		3.4	8.5		5
10138	Benzo(g,h,i)perylene	191-24-2	6.1	J	3.4	8.5		5
10138	Benzo(k)fluoranthene	207-08-9	9.4		3.4	8.5		5
10138	Butylbenzylphthalate	85-68-7	30	U	30	91		5
10138	Di-n-butylphthalate	84-74-2	59	J	30	91		5
10138	Chrysene	218-01-9	20		1.7	8.5		5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.5		5
10138	Diethylphthalate	84-66-2	30	U	30	91		5
10138	Dimethylphthalate	131-11-3	30	U	30	91		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	170		30	91		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.5		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.9	J	3.4	8.5		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.5		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.5		5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.5		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.5		5
10138	Di-n-octylphthalate	117-84-0	30	U	30	91		5
10138	Phenanthrene	85-01-8	13		3.4	8.5		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	1.1	U	1.1	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	390		77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.72		0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-003-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA7-SS-0.0-0.5

LLI Sample # SW 6412109
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:20

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4702 SDG#: DE247-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	1.4	J	0.81	3.5		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35		1
01363	p,p-DDE	72-55-9	0.17	U	0.17	0.35		1
01363	p,p-DDT	50-29-3	0.46		0.067	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.089	U	0.089	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.075	U	0.075	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.095	U	0.095	0.35		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.13	U	0.13	0.35		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	Reporting limits were raised due to interference from the sample matrix. The DCB surrogate is outside the client specified limit at 132%. The recovery is within our in-house statistical limits of 45-150%, therefore the data is reported.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	5.1	U	5.1	17		5
10225	Aroclor 5442	12642-23-8	5.1	U	5.1	17		5
10225	Aroclor 5460	11126-42-4	55		5.1	17		5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.6		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.6		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.6		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.6		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.6		5
10225	PCB-1254	11097-69-1	32		1.7	8.6		5
10225	PCB-1260	11096-82-5	17		2.0	8.6		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.6		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.6		5
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-003-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA7-SS-0.0-0.5

LLI Sample # SW 6412109
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:20

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4702 SDG#: DE247-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	10	U	10	30		25
10199	EFH (C15-C20)	n.a.	16	J	10	30		25
10199	EFH (C21-C30)	n.a.	140		10	30		25
10199	EFH (C30 - C40)	n.a.	550		10	30		25
10199	EFH (C8-C11)	n.a.	10	U	10	30		25
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	7,890		5.97	19.7		1
07914	Boron	7440-42-8	0.734	J	0.355	4.93		1
01650	Calcium	7440-70-2	2,280		2.47	19.7		1
01654	Iron	7439-89-6	13,400		2.58	19.7		1
01656	Lithium	7439-93-2	16.8		0.61	2.0		1
01657	Magnesium	7439-95-4	2,890		0.434	9.87		1
06958	Manganese	7439-96-5	198		0.0355	0.493		1
10145	Phosphorus	7723-14-0	429		0.345	9.87		1
01662	Potassium	7440-09-7	2,870		11.1	49.3		1
01667	Sodium	7440-23-5	69.8	J	5.87	98.7		1
07968	Strontium	7440-24-6	11.9		0.0247	0.493		1
06969	Tin	7440-31-5	2.96	J	0.316	9.87		1
06970	Titanium	7440-32-6	779		0.0701	0.987		1
10146	Zirconium	7440-67-7	1.99	J	0.454	4.93		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.286		0.0745	0.201		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.50		0.0805	0.402		2
06126	Barium	7440-39-3	90.4		0.107	0.402		2
06127	Beryllium	7440-41-7	0.405		0.0161	0.101		2
06128	Cadmium	7440-43-9	1.19		0.0443	0.101		2
06131	Chromium	7440-47-3	38.6		0.121	0.402		2
06132	Cobalt	7440-48-4	5.61		0.0201	0.101		2
06133	Copper	7440-50-8	13.1		0.0805	0.402		2
06135	Lead	7439-92-1	42.5		0.0103	0.201		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-003-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA7-SS-0.0-0.5

LLI Sample # SW 6412109
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:20

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4702 SDG#: DE247-02

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06138	Molybdenum		7439-98-7	0.522		0.0503	0.101		2
06139	Nickel		7440-02-0	11.0		0.101	0.402		2
06141	Selenium		7782-49-2	0.107	J	0.0584	0.402		2
06142	Silver		7440-22-4	0.102		0.0143	0.101		2
06145	Thallium		7440-28-0	0.230		0.0302	0.101		2
06148	Vanadium		7440-62-2	30.0		0.0221	0.101		2
06149	Zinc		7440-66-6	180		1.41	7.55		5
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0167	J	0.0069	0.0981		1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	0.82	U	0.82	1.0		1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	9.1	U	9.1	30.5		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.60	J	0.20	0.99		1
		SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B		57-12-5	0.18	U	0.18	0.50		1
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C		n.a.	7.16		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	1.6		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-003-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA7-SS-0.0-0.5

LLI Sample # SW 6412109
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:20

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4702 SDG#: DE247-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11267SLH026	09/30/2011 15:12	Linda M Hartenstine	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLD026	10/07/2011 01:22	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLD026	09/27/2011 18:00	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11267SLH026	09/28/2011 11:45	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670048A	09/29/2011 20:05	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670033A	09/30/2011 17:32	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670023A	09/29/2011 23:54	Jamie L Brillhart	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112670033A	09/27/2011 11:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670023A	09/27/2011 10:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670048A	09/28/2011 02:00	David V Hershey Jr	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112640035A	09/22/2011 23:04	Elizabeth J Marin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112640035A	09/23/2011 20:29	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112640014A	09/22/2011 10:35	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112670016A	09/27/2011 02:53	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112660005A	09/27/2011 20:18	Heather E Williams	25
11238	EFH Extraction - Soils	SW-846 3550B	1	112660005A	09/23/2011 15:00	Wanda F Oswald	1
10303	Terphenyls soil prep	SW-846 3550B	1	112670016A	09/26/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112640035A	09/22/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112640014A	09/22/2011 07:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112645708002	09/29/2011 14:06	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112645708002	09/30/2011 11:12	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112645708002	09/29/2011 14:06	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112645708002	09/29/2011 14:06	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112645708002	09/29/2011 14:06	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112645708002	09/29/2011 14:06	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112645708002	09/30/2011 11:12	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112645708002	09/29/2011 14:06	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112645708002	09/29/2011 14:06	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112645708002	09/29/2011 14:06	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112645708002	09/30/2011 11:12	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112645708002	09/29/2011 14:06	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112645708002	09/29/2011 14:06	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112645708002	09/29/2011 14:06	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112641026001A	09/22/2011 11:37	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112641026001A	09/22/2011 11:37	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112641026001D	09/22/2011 11:37	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112641026001A	09/22/2011 11:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112641026001A	09/22/2011 11:37	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112641026001A	09/22/2011 11:37	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-003-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA7-SS-0.0-0.5

LLI Sample # SW 6412109
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:20

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4702 SDG#: DE247-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	112641026001A	09/22/2011 11:37	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112641026001A	09/22/2011 11:37	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112641026001A	09/22/2011 11:37	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112641026001C	09/22/2011 11:37	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112641026001A	09/22/2011 11:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112641026001B	09/22/2011 11:37	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112641026001A	09/22/2011 11:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112641026001A	09/22/2011 11:37	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112641026001A	09/22/2011 11:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	2	112641026001A	09/27/2011 18:13	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	112645711001	09/22/2011 09:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112645708002	09/21/2011 19:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112641026001	09/21/2011 19:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112645711001	09/21/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11270621202A	09/28/2011 21:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11266621201A	09/27/2011 17:23	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11273243201A	10/04/2011 12:58	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11273102201A	10/03/2011 08:54	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11270621202A	09/27/2011 07:25	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621201A	09/23/2011 05:35	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11273102201A	09/30/2011 15:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039403A	09/26/2011 10:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11273243201A	09/30/2011 09:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11270162401A	09/27/2011 20:58	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-004-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA7-SS-0.0-0.5

LLI Sample # SW 6412110
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 15:25

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4703 SDG#: DE247-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	165	U	165	330		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	840	U	840	2,500		5
04688	Anthracene	120-12-7	880		84	840		5
04688	Benzidine	92-87-5	5,900	U	5,900	17,000		5
04688	Benzo(a)anthracene	56-55-3	2,000		84	840		5
04688	Benzo(a)pyrene	50-32-8	1,800		84	840		5
04688	Benzo(b)fluoranthene	205-99-2	2,500		84	840		5
04688	Benzo(g,h,i)perylene	191-24-2	1,200		84	840		5
04688	Benzo(k)fluoranthene	207-08-9	1,100		84	840		5
04688	Benzoic acid	65-85-0	840	U	840	2,500		5
04688	Benzyl alcohol	100-51-6	840	U	840	2,500		5
04688	4-Bromophenyl-phenylether	101-55-3	84	U	84	840		5
04688	Carbazole	86-74-8	780	J	84	840		5
04688	4-Chloro-3-methylphenol	59-50-7	170	U	170	840		5
04688	4-Chloroaniline	106-47-8	340	U	340	840		5
04688	bis(2-Chloroethoxy)methane	111-91-1	84	U	84	840		5
04688	bis(2-Chloroethyl)ether	111-44-4	84	U	84	840		5
04688	bis(2-Chloroisopropyl)ether	39638-32-9	84	U	84	840		5
04688	2-Chloronaphthalene	91-58-7	84	U	84	840		5
04688	2-Chlorophenol	95-57-8	84	U	84	840		5
04688	4-Chlorophenyl-phenylether	7005-72-3	170	U	170	840		5
04688	Chrysene	218-01-9	2,200		84	840		5
04688	Dibenz(a,h)anthracene	53-70-3	330	J	84	840		5
04688	Dibenzofuran	132-64-9	200	J	84	840		5
04688	1,2-Dichlorobenzene	95-50-1	84	U	84	840		5
04688	1,3-Dichlorobenzene	541-73-1	84	U	84	840		5
04688	1,4-Dichlorobenzene	106-46-7	84	U	84	840		5
04688	3,3'-Dichlorobenzidine	91-94-1	500	U	500	1,700		5
04688	2,4-Dichlorophenol	120-83-2	84	U	84	840		5
04688	2,4-Dimethylphenol	105-67-9	170	U	170	840		5
04688	3,5-Dimethylphenol	108-68-9	170	U	170	840		5
04688	4,6-Dinitro-2-methylphenol	534-52-1	840	U	840	2,500		5
04688	2,4-Dinitrophenol	51-28-5	1,700	U	1,700	5,000		5
04688	2,4-Dinitrotoluene	121-14-2	170	U	170	840		5
04688	2,6-Dinitrotoluene	606-20-2	84	U	84	840		5
04688	1,2-Diphenylhydrazine	122-66-7	84	U	84	840		5
04688	Fluoranthene	206-44-0	5,100		84	840		5
04688	Fluorene	86-73-7	330	J	84	840		5
04688	Hexachlorobenzene	118-74-1	84	U	84	840		5
04688	Hexachlorobutadiene	87-68-3	340	U	340	840		5
04688	Hexachlorocyclopentadiene	77-47-4	840	U	840	2,500		5
04688	Hexachloroethane	67-72-1	84	U	84	840		5
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,100		84	840		5
04688	Isophorone	78-59-1	84	U	84	840		5
04688	2-Methylphenol	95-48-7	170	U	170	840		5
04688	4-Methylphenol	106-44-5	170	U	170	840		5

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Sample Description: **SL-004-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA7-SS-0.0-0.5

LLI Sample # SW 6412110
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 15:25

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4703 SDG#: DE247-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	110	J	84	840		5
04688	2-Nitroaniline	88-74-4	84	U	84	840		5
04688	3-Nitroaniline	99-09-2	170	U	170	840		5
04688	4-Nitroaniline	100-01-6	340	U	340	840		5
04688	Nitrobenzene	98-95-3	84	U	84	840		5
04688	2-Nitrophenol	88-75-5	84	U	84	840		5
04688	4-Nitrophenol	100-02-7	840	U	840	2,500		5
04688	N-Nitroso-di-n-propylamine	621-64-7	84	U	84	840		5
04688	N-Nitrosodiphenylamine	86-30-6	84	U	84	840		5
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	840	U	840	2,500		5
04688	Phenanthrene	85-01-8	4,500		84	840		5
04688	Phenol	108-95-2	84	U	84	840		5
04688	Pyrene	129-00-0	4,400		84	840		5
04688	Tetralin	119-64-2	840	U	840	840		5
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	84	U	84	840		5
04688	2,4,5-Trichlorophenol	95-95-4	170	U	170	840		5
04688	2,4,6-Trichlorophenol	88-06-2	170	U	170	840		5
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	160		3.4	8.4		5
10138	Acenaphthylene	208-96-8	9.3		1.7	8.4		5
10138	Butylbenzylphthalate	85-68-7	30	U	30	91		5
10138	Di-n-butylphthalate	84-74-2	30	U	30	91		5
10138	Diethylphthalate	84-66-2	30	U	30	91		5
10138	Dimethylphthalate	131-11-3	30	U	30	91		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	1,400		300	910		50
10138	1-Methylnaphthalene	90-12-0	18		3.4	8.4		5
10138	2-Methylnaphthalene	91-57-6	16		3.4	8.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4		5
10138	Di-n-octylphthalate	117-84-0	79	J	30	91		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	60	U	60	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	40	U	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1

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Sample Description: **SL-004-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA7-SS-0.0-0.5

LLI Sample # SW 6412110
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 15:25

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4703 SDG#: DE247-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	40	U	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	40	U	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	40	U	40	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	40	U	40	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	50	U	50	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	40	U	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	40	U	40	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	2.3	U	2.3	2.3		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	400		76	250		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.13	U	0.13	0.17		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. Reporting limits were raised due to interference from the sample matrix.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	600	U	600	1,500		1

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Sample Description: **SL-004-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA7-SS-0.0-0.5

LLI Sample # SW 6412110
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E4703 SDG#: DE247-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.060	J	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	41		8.1	34		10
01363	p,p-DDD	72-54-8	2.3	U	2.3	2.3		1
01363	p,p-DDE	72-55-9	0.39	U	0.39	0.39		1
01363	p,p-DDT	50-29-3	1.4	U	1.4	1.4		1
01363	Delta BHC	319-86-8	0.082	J	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.13	U	0.13	0.17		1
01363	Endosulfan II	33213-65-9	0.45	U	0.45	0.45		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.19	U	0.19	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.25	U	0.25	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.13	U	0.13	0.17		1
01363	Methoxychlor	72-43-5	0.97	U	0.97	1.7		1
01363	Mirex	2385-85-5	0.49	U	0.49	0.49		1
01363	Toxaphene	8001-35-2	34	U	34	34		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	27		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	12		0.33	1.7		1
10225	PCB-1260	11096-82-5	7.5		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	100	U	100	500		1

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Sample Description: **SL-004-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA7-SS-0.0-0.5

LLI Sample # SW 6412110
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 15:25

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E4703 SDG#: DE247-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	8.1	U	8.1	24		20
10199	EFH (C15-C20)	n.a.	8.1	U	8.1	24		20
10199	EFH (C21-C30)	n.a.	140		8.1	24		20
10199	EFH (C30 - C40)	n.a.	540		8.1	24		20
10199	EFH (C8-C11)	n.a.	8.1	U	8.1	24		20
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,700		6.10	20.2		1
07914	Boron	7440-42-8	0.363	U	0.363	5.04		1
01650	Calcium	7440-70-2	3,810		2.52	20.2		1
01654	Iron	7439-89-6	22,000		2.63	20.2		1
01656	Lithium	7439-93-2	25.7		0.62	2.0		1
01657	Magnesium	7439-95-4	4,970		0.444	10.1		1
06958	Manganese	7439-96-5	293		0.0363	0.504		1
10145	Phosphorus	7723-14-0	516		0.353	10.1		1
01662	Potassium	7440-09-7	3,690		11.4	50.4		1
01667	Sodium	7440-23-5	74.8	J	6.00	101		1
07968	Strontium	7440-24-6	14.9		0.0252	0.504		1
06969	Tin	7440-31-5	2.69	J	0.323	10.1		1
06970	Titanium	7440-32-6	1,170		0.0716	1.01		1
10146	Zirconium	7440-67-7	1.97	J	0.464	5.04		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.265		0.0731	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.45		0.0791	0.395		2
06126	Barium	7440-39-3	115		0.105	0.395		2
06127	Beryllium	7440-41-7	0.586		0.0158	0.0988		2
06128	Cadmium	7440-43-9	0.696		0.0435	0.0988		2
06131	Chromium	7440-47-3	26.9		0.119	0.395		2
06132	Cobalt	7440-48-4	7.41		0.0198	0.0988		2
06133	Copper	7440-50-8	14.0		0.0791	0.395		2
06135	Lead	7439-92-1	35.7		0.0101	0.198		2

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Sample Description: SL-004-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA7-SS-0.0-0.5

LLI Sample # SW 6412110
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Project Name: SSFL Area IV Collocated Soil Sampling

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E4703 SDG#: DE247-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06138	Molybdenum	7439-98-7	0.572		0.0494	0.0988		2
06139	Nickel	7440-02-0	16.6		0.0988	0.395		2
06141	Selenium	7782-49-2	0.102	J	0.0573	0.395		2
06142	Silver	7440-22-4	0.109		0.0140	0.0988		2
06145	Thallium	7440-28-0	0.314		0.0296	0.0988		2
06148	Vanadium	7440-62-2	41.3		0.0217	0.0988		2
06149	Zinc	7440-66-6	218		1.38	7.41		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0401	J	0.0069	0.0975		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80	U	0.80	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.80	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.57	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.44		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.79		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-004-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA7-SS-0.0-0.5

LLI Sample # SW 6412110
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 15:25

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4703 SDG#: DE247-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11265SLB026	09/29/2011 19:47	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11267SLH026	09/30/2011 15:37	Linda M Hartenstine	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLD026	10/07/2011 01:54	Gregory J Drahovsky	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLD026	10/07/2011 06:29	Brian K Graham	50
11630	NDMA Soil Microwave	SW-846 3546	1	11265SLB026	09/23/2011 10:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLD026	09/27/2011 18:00	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11267SLH026	09/28/2011 11:45	Olivia I Santiago	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112640025A	09/24/2011 12:15	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670007A	09/28/2011 17:45	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670048A	09/29/2011 20:32	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670033A	09/30/2011 17:47	Melissa McDermott	10
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670033A	10/03/2011 03:38	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670023A	09/28/2011 12:35	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112670033A	09/27/2011 11:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670023A	09/27/2011 10:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670048A	09/28/2011 02:00	David V Hershey Jr	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670007A	09/26/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112640025A	09/22/2011 11:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112640035A	09/22/2011 23:18	Elizabeth J Marin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112640035A	09/23/2011 20:44	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112640014A	09/22/2011 10:48	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112670016A	09/27/2011 03:37	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112660005A	09/27/2011 19:07	Heather E Williams	20
11238	EFH Extraction - Soils	SW-846 3550B	1	112660005A	09/23/2011 15:00	Wanda F Oswald	1
10303	Terphenyls soil prep	SW-846 3550B	1	112670016A	09/26/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112640035A	09/22/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112640014A	09/22/2011 07:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112645708002	09/29/2011 14:10	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112645708002	09/30/2011 11:23	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112645708002	09/29/2011 14:10	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112645708002	09/29/2011 14:10	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112645708002	09/29/2011 14:10	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112645708002	09/29/2011 14:10	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112645708002	09/30/2011 11:23	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112645708002	09/29/2011 14:10	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112645708002	09/29/2011 14:10	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112645708002	09/29/2011 14:10	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112645708002	09/30/2011 11:23	Joanne M Gates	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-004-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA7-SS-0.0-0.5

LLI Sample # SW 6412110
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 15:25

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4703 SDG#: DE247-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112645708002	09/29/2011 14:10	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112645708002	09/29/2011 14:10	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112645708002	09/29/2011 14:10	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112641026001A	09/22/2011 11:46	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112641026001A	09/22/2011 11:46	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112641026001D	09/22/2011 11:46	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112641026001A	09/22/2011 11:46	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112641026001A	09/22/2011 11:46	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112641026001A	09/22/2011 11:46	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112641026001A	09/22/2011 11:46	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112641026001A	09/22/2011 11:46	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112641026001A	09/22/2011 11:46	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112641026001C	09/22/2011 11:46	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112641026001A	09/22/2011 11:46	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112641026001B	09/22/2011 11:46	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112641026001A	09/22/2011 11:46	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112641026001A	09/22/2011 11:46	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112641026001A	09/22/2011 11:46	Choon Y Tian	2
06149	Zinc	SW-846 6020	2	112641026001A	09/23/2011 14:39	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	112645711001	09/22/2011 09:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112645708002	09/21/2011 19:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112641026001	09/21/2011 19:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112645711001	09/21/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11270621202A	09/28/2011 21:13	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11270621202A	09/28/2011 21:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11266621201A	09/27/2011 17:46	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11273243201A	10/04/2011 13:05	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11273102201A	10/03/2011 08:55	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11270621202A	09/27/2011 07:25	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621201A	09/23/2011 05:35	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11273102201A	09/30/2011 15:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039403A	09/26/2011 10:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11273243201A	09/30/2011 09:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11272162401B	09/29/2011 21:46	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-042-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA7-SS-0.0-0.5

LLI Sample # SW 6412111
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4704 SDG#: DE247-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	120	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-042-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA7-SS-0.0-0.5

LLI Sample # SW 6412111
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4704 SDG#: DE247-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.4		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.4		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.4		5
10138	Benzo(a)anthracene	56-55-3	3.4	U	3.4	8.4		5
10138	Benzo(a)pyrene	50-32-8	3.4	U	3.4	8.4		5
10138	Benzo(b)fluoranthene	205-99-2	5.2	J	3.4	8.4		5
10138	Benzo(g,h,i)perylene	191-24-2	3.4	U	3.4	8.4		5
10138	Benzo(k)fluoranthene	207-08-9	3.4	U	3.4	8.4		5
10138	Chrysene	218-01-9	2.7	J	1.7	8.4		5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.4		5
10138	Fluoranthene	206-44-0	4.5	J	3.4	8.4		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.4		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.4	U	3.4	8.4		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.4		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.4		5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4		5
10138	Phenanthrene	85-01-8	3.4	U	3.4	8.4		5
10138	Pyrene	129-00-0	3.7	J	3.4	8.4		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	3.1		0.62	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.77		0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-042-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA7-SS-0.0-0.5

LLI Sample # SW 6412111
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4704 SDG#: DE247-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
statistical limits of 0-36%, the data is reported.								
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.041	J	0.034	0.17		1
01363	Chlordane	57-74-9	1.4	J	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.086	U	0.086	0.34		1
01363	p,p-DDE	72-55-9	0.28	J	0.067	0.34		1
01363	p,p-DDT	50-29-3	1.1		0.067	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.068	U	0.068	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.20	U	0.20	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	3.0		0.33	1.7		1
10225	PCB-1260	11096-82-5	0.90	J	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,800		6.04	20.0		1
07914	Boron	7440-42-8	0.359	U	0.359	4.99		1
01650	Calcium	7440-70-2	2,880		2.50	20.0		1
01654	Iron	7439-89-6	18,100		2.61	20.0		1
01656	Lithium	7439-93-2	24.4		0.62	2.0		1
01657	Magnesium	7439-95-4	4,200		0.439	9.98		1
06958	Manganese	7439-96-5	274		0.0359	0.499		1
10145	Phosphorus	7723-14-0	415		0.349	9.98		1
01662	Potassium	7440-09-7	3,250		11.3	49.9		1
01667	Sodium	7440-23-5	70.1	J	5.94	99.8		1
07968	Strontium	7440-24-6	15.9		0.0250	0.499		1

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Sample Description: SL-042-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA7-SS-0.0-0.5

LLI Sample # SW 6412111
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4704 SDG#: DE247-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06969	Tin	7440-31-5	2.83	J	0.319	9.98		1
06970	Titanium	7440-32-6	1,090		0.0709	0.998		1
10146	Zirconium	7440-67-7	2.28	J	0.459	4.99		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.133	J	0.0739	0.200		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.34		0.0799	0.399		2
06126	Barium	7440-39-3	96.8		0.106	0.399		2
06127	Beryllium	7440-41-7	0.586		0.0160	0.0998		2
06128	Cadmium	7440-43-9	0.239		0.0439	0.0998		2
06131	Chromium	7440-47-3	16.9		0.120	0.399		2
06132	Cobalt	7440-48-4	6.11		0.0200	0.0998		2
06133	Copper	7440-50-8	9.21		0.0799	0.399		2
06135	Lead	7439-92-1	7.45		0.0102	0.200		2
06138	Molybdenum	7439-98-7	0.446		0.0499	0.0998		2
06139	Nickel	7440-02-0	11.5		0.0998	0.399		2
06141	Selenium	7782-49-2	0.126	J	0.0579	0.399		2
06142	Silver	7440-22-4	0.0311	J	0.0142	0.0998		2
06145	Thallium	7440-28-0	0.287		0.0300	0.0998		2
06148	Vanadium	7440-62-2	33.8		0.0220	0.0998		2
06149	Zinc	7440-66-6	238		1.40	7.49		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	J	0.0070	0.0993		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80	U	0.80	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.76	J	0.20	0.98		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.13		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.83		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-042-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA7-SS-0.0-0.5

LLI Sample # SW 6412111
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4704 SDG#: DE247-04BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11267SLH026	09/30/2011 13:31	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLD026	10/06/2011 23:13	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLD026	09/27/2011 18:00	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11267SLH026	09/28/2011 11:45	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670048A	09/29/2011 13:38	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670033A	09/30/2011 18:01	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112730025A	10/03/2011 11:51	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112670033A	09/27/2011 11:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	112730025A	10/01/2011 10:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670048A	09/28/2011 02:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	112645708002	09/29/2011 13:30	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112645708002	09/30/2011 10:45	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112645708002	09/29/2011 13:30	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112645708002	09/29/2011 13:30	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112645708002	09/29/2011 13:30	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112645708002	09/29/2011 13:30	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112645708002	09/30/2011 10:45	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112645708002	09/29/2011 13:30	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112645708002	09/29/2011 13:30	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112645708002	09/29/2011 13:30	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112645708002	09/30/2011 10:45	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112645708002	09/29/2011 13:30	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112645708002	09/29/2011 13:30	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112645708002	09/29/2011 13:30	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112641026001A	09/22/2011 11:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112641026001A	09/22/2011 11:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112641026001D	09/22/2011 11:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112641026001A	09/22/2011 11:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112641026001A	09/22/2011 11:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112641026001A	09/22/2011 11:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112641026001A	09/22/2011 11:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112641026001A	09/22/2011 11:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112641026001A	09/22/2011 11:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112641026001C	09/22/2011 11:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112641026001A	09/22/2011 11:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112641026001B	09/22/2011 11:15	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-042-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA7-SS-0.0-0.5

LLI Sample # SW 6412111
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4704 SDG#: DE247-04BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	112641026001A	09/22/2011 11:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112641026001A	09/22/2011 11:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112641026001A	09/22/2011 11:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	2	112641026001A	09/23/2011 14:26	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	112645711001	09/22/2011 09:04	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112645708002	09/21/2011 19:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112641026001	09/21/2011 19:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112645711001	09/21/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11270621202A	09/28/2011 19:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11266621201A	09/27/2011 15:27	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11273243201A	10/04/2011 13:25	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11270621202A	09/27/2011 07:25	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621201A	09/23/2011 05:35	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039403A	09/26/2011 10:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11273243201A	09/30/2011 09:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11270162401A	09/27/2011 20:58	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-042-SA7-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA7-SS-0.0-0.5

LLI Sample # SW 6412112
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4704 SDG#: DE247-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		17	170		1
04688	Acenaphthylene	208-96-8	1,900		17	170		1
04688	Aniline	62-53-3	1,300		170	500		1
04688	Anthracene	120-12-7	1,800		17	170		1
04688	Benzidine	92-87-5	2,100	J	1,200	3,400		1
04688	Benzo(a)anthracene	56-55-3	1,600		17	170		1
04688	Benzo(a)pyrene	50-32-8	1,800		17	170		1
04688	Benzo(b)fluoranthene	205-99-2	1,800		17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	1,900		17	170		1
04688	Benzo(k)fluoranthene	207-08-9	1,900		17	170		1
04688	Benzoic acid	65-85-0	370	J	170	500		1
04688	Benzyl alcohol	100-51-6	1,800		170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		17	170		1
04688	Butylbenzylphthalate	85-68-7	1,800		17	170		1
04688	Di-n-butylphthalate	84-74-2	1,800		17	170		1
04688	Carbazole	86-74-8	1,700		17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	1,900		34	170		1
04688	4-Chloroaniline	106-47-8	820		67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600		17	170		1
04688	2-Chloronaphthalene	91-58-7	1,600		17	170		1
04688	2-Chlorophenol	95-57-8	1,900		17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		34	170		1
04688	Chrysene	218-01-9	1,600		17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	1,900		17	170		1
04688	Dibenzofuran	132-64-9	1,800		17	170		1
04688	1,2-Dichlorobenzene	95-50-1	1,600		17	170		1
04688	1,3-Dichlorobenzene	541-73-1	1,700		17	170		1
04688	1,4-Dichlorobenzene	106-46-7	1,700		17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,000		100	340		1
04688	2,4-Dichlorophenol	120-83-2	1,900		17	170		1
04688	Diethylphthalate	84-66-2	1,800		17	170		1
04688	2,4-Dimethylphenol	105-67-9	1,900		34	170		1
04688	3,5-Dimethylphenol	108-68-9	1,800		34	170		1
04688	Dimethylphthalate	131-11-3	1,800		17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	980		170	500		1
04688	2,4-Dinitrophenol	51-28-5	710	J	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	1,700		34	170		1
04688	2,6-Dinitrotoluene	606-20-2	1,900		17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800		17	340		1
04688	Fluoranthene	206-44-0	1,800		17	170		1
04688	Fluorene	86-73-7	1,800		17	170		1
04688	Hexachlorobenzene	118-74-1	1,700		17	170		1
04688	Hexachlorobutadiene	87-68-3	1,600		67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	2,600		170	500		1
04688	Hexachloroethane	67-72-1	1,600		17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900		17	170		1
04688	Isophorone	78-59-1	1,700		17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-042-SA7-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA7-SS-0.0-0.5

LLI Sample # SW 6412112
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4704 SDG#: DE247-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1-Methylnaphthalene	90-12-0	1,800		17	170		1
04688	2-Methylnaphthalene	91-57-6	1,900		17	170		1
04688	2-Methylphenol	95-48-7	1,900		34	170		1
04688	4-Methylphenol	106-44-5	1,800		34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,700		17	170		1
04688	2-Nitroaniline	88-74-4	1,800		17	170		1
04688	3-Nitroaniline	99-09-2	1,700		34	170		1
04688	4-Nitroaniline	100-01-6	1,300		67	170		1
04688	Nitrobenzene	98-95-3	1,700		17	170		1
04688	2-Nitrophenol	88-75-5	1,900		17	170		1
04688	4-Nitrophenol	100-02-7	1,600		170	500		1
04688	N-Nitrosodimethylamine	62-75-9	1,500		34	170		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600		17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800		17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	2,000		17	170		1
04688	Pentachlorophenol	87-86-5	920		170	500		1
04688	Phenanthrene	85-01-8	1,800		17	170		1
04688	Phenol	108-95-2	1,900		17	170		1
04688	Pyrene	129-00-0	1,700		17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	1,700		17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800		34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	1,900		34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	32		3.4	8.4		5
10138	Acenaphthylene	208-96-8	31		1.7	8.4		5
10138	Anthracene	120-12-7	32		1.7	8.4		5
10138	Benzo(a)anthracene	56-55-3	38		3.4	8.4		5
10138	Benzo(a)pyrene	50-32-8	38		3.4	8.4		5
10138	Benzo(b)fluoranthene	205-99-2	49		3.4	8.4		5
10138	Benzo(g,h,i)perylene	191-24-2	22		3.4	8.4		5
10138	Benzo(k)fluoranthene	207-08-9	39		3.4	8.4		5
10138	Butylbenzylphthalate	85-68-7	37	J	30	91		5
10138	Di-n-butylphthalate	84-74-2	38	J	30	91		5
10138	Chrysene	218-01-9	41		1.7	8.4		5
10138	Dibenz(a,h)anthracene	53-70-3	22		3.4	8.4		5
10138	Diethylphthalate	84-66-2	34	J	30	91		5
10138	Dimethylphthalate	131-11-3	33	J	30	91		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	57	J	30	91		5

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-042-SA7-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA7-SS-0.0-0.5

LLI Sample # SW 6412112
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4704 SDG#: DE247-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	50		3.4	8.4		5
10138	Fluorene	86-73-7	32		3.4	8.4		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	23		3.4	8.4		5
10138	1-Methylnaphthalene	90-12-0	31		3.4	8.4		5
10138	2-Methylnaphthalene	91-57-6	30		3.4	8.4		5
10138	Naphthalene	91-20-3	31		3.4	8.4		5
10138	N-Nitrosodimethylamine	62-75-9	30		3.4	8.4		5
10138	Di-n-octylphthalate	117-84-0	52	J	30	91		5
10138	Phenanthrene	85-01-8	38		3.4	8.4		5
10138	Pyrene	129-00-0	43		3.4	8.4		5
Reporting limits were raised due to interference from the sample matrix.								
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	7.9		1.2	3.6		1
10401	Dalapon	75-99-0	14		4.4	9.1		1
10401	2,4-DB	94-82-6	0.63	U	0.63	1.7		1
10401	Dicamba	1918-00-9	1.0	J	0.40	1.2		1
10401	Dinoseb	88-85-7	1.0	J	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	8.1		0.81	1.7		1
10401	MCPA	94-74-6	280		77	250		1
10401	MCPP (Mecoprop)	93-65-2	610		76	250		1
10401	2,4,5-T	93-76-5	0.37		0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.55		0.076	0.17		1
The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.								
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.24		0.067	0.17		1
01363	Alpha BHC	319-84-6	0.24		0.034	0.17		1
01363	Beta BHC	319-85-7	0.17		0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.24		0.034	0.17		1
01363	Chlordane	57-74-9	2.7	J	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.58		0.067	0.34		1
01363	p,p-DDE	72-55-9	0.79		0.067	0.34		1
01363	p,p-DDT	50-29-3	1.2		0.067	0.34		1
01363	Delta BHC	319-86-8	0.23		0.036	0.17		1
01363	Dieldrin	60-57-1	0.52		0.067	0.34		1
01363	Endosulfan I	959-98-8	0.18		0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.33	J	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.48		0.067	0.34		1
01363	Endrin	72-20-8	0.35		0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.53		0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.40		0.067	0.34		1
01363	Heptachlor	76-44-8	0.26		0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.25		0.034	0.17		1
01363	Methoxychlor	72-43-5	3.0		0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

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Sample Description: SL-042-SA7-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA7-SS-0.0-0.5

LLI Sample # SW 6412112
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4704 SDG#: DE247-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	11		0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	5.1		0.33	1.7		1
10225	PCB-1260	11096-82-5	10		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	15,000		5.98	19.8		1
07914	Boron	7440-42-8	200		0.356	4.94		1
01650	Calcium	7440-70-2	3,420		2.47	19.8		1
01654	Iron	7439-89-6	18,600		2.58	19.8		1
01656	Lithium	7439-93-2	125		0.61	2.0		1
01657	Magnesium	7439-95-4	4,400		0.435	9.89		1
06958	Manganese	7439-96-5	340		0.0356	0.494		1
10145	Phosphorus	7723-14-0	505		0.346	9.89		1
01662	Potassium	7440-09-7	4,360		11.2	49.4		1
01667	Sodium	7440-23-5	1,050		5.88	98.9		1
07968	Strontium	7440-24-6	117		0.0247	0.494		1
06969	Tin	7440-31-5	357		0.316	9.89		1
06970	Titanium	7440-32-6	1,300		0.0702	0.989		1
10146	Zirconium	7440-67-7	102		0.455	4.94		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.781		0.0724	0.196		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.45		0.0783	0.392		2
06126	Barium	7440-39-3	129		0.104	0.392		2
06127	Beryllium	7440-41-7	1.73		0.0157	0.0979		2
06128	Cadmium	7440-43-9	1.76		0.0431	0.0979		2
06131	Chromium	7440-47-3	32.6		0.117	0.392		2
06132	Cobalt	7440-48-4	77.7		0.0196	0.0979		2
06133	Copper	7440-50-8	24.5		0.0783	0.392		2
06135	Lead	7439-92-1	12.5		0.010	0.196		2
06138	Molybdenum	7439-98-7	15.2		0.0489	0.0979		2
06139	Nickel	7440-02-0	27.7		0.0979	0.392		2
06141	Selenium	7782-49-2	2.72		0.0568	0.392		2
06142	Silver	7440-22-4	14.2		0.0139	0.0979		2
06145	Thallium	7440-28-0	0.908		0.0294	0.0979		2
06148	Vanadium	7440-62-2	52.6		0.0215	0.0979		2
06149	Zinc	7440-66-6	238		1.37	7.34		5

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Sample Description: SL-042-SA7-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA7-SS-0.0-0.5

LLI Sample # SW 6412112
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4704 SDG#: DE247-04MS

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.172	0.0069	0.0985		1
Wet Chemistry		**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	7.7	0.80	1.0		1
		EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	515	9.1	30.3		1
		SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	32.1	0.97	4.9		5
Wet Chemistry		**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3		n.a.	0.83	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11267SLH026	09/30/2011 13:56	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLD026	10/06/2011 23:45	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLD026	09/27/2011 18:00	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11267SLH026	09/28/2011 11:45	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670048A	09/29/2011 14:06	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670033A	09/30/2011 18:16	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112730025A	10/03/2011 12:09	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112670033A	09/27/2011 11:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	112730025A	10/01/2011 10:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670048A	09/28/2011 02:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	112645708002	09/29/2011 13:42	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112645708002	09/30/2011 10:56	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112645708002	09/29/2011 13:42	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112645708002	09/29/2011 13:42	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112645708002	09/29/2011 13:42	Joanne M Gates	1

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Sample Description: **SL-042-SA7-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA7-SS-0.0-0.5

LLI Sample # SW 6412112
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4704 SDG#: DE247-04MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	112645708002	09/29/2011 13:42	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112645708002	09/30/2011 10:56	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112645708002	09/29/2011 13:42	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112645708002	09/29/2011 13:42	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112645708002	09/29/2011 13:42	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112645708002	09/30/2011 10:56	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112645708002	09/29/2011 13:42	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112645708002	09/29/2011 13:42	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112645708002	09/29/2011 13:42	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112641026001A	09/22/2011 11:24	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112641026001A	09/22/2011 11:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112641026001D	09/22/2011 11:24	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112641026001A	09/22/2011 11:24	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112641026001A	09/22/2011 11:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112641026001A	09/22/2011 11:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112641026001A	09/22/2011 11:24	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112641026001A	09/22/2011 11:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112641026001A	09/22/2011 11:24	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112641026001C	09/22/2011 11:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112641026001A	09/22/2011 11:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112641026001B	09/22/2011 11:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112641026001A	09/22/2011 11:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112641026001A	09/22/2011 11:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112641026001A	09/22/2011 11:24	Choon Y Tian	2
06149	Zinc	SW-846 6020	2	112641026001A	09/23/2011 14:34	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	112645711001	09/22/2011 09:08	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112645708002	09/21/2011 19:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112641026001	09/21/2011 19:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112645711001	09/21/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11270621202A	09/28/2011 20:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11266621201A	09/27/2011 16:14	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11273243201A	10/04/2011 13:38	Elyse P Brunstetter	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11270621202A	09/27/2011 07:25	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621201A	09/23/2011 05:35	William L Hamaker Jr	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11273243201A	09/30/2011 09:15	Michelle L Lalli	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11270162401A	09/27/2011 20:58	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-042-SA7-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA7-SS-0.0-0.5

LLI Sample # SW 6412113
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4704 SDG#: DE247-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,700		17	170		1
04688	Acenaphthylene	208-96-8	1,900		17	170		1
04688	Aniline	62-53-3	1,400		170	500		1
04688	Anthracene	120-12-7	1,800		17	170		1
04688	Benzidine	92-87-5	2,300	J	1,200	3,400		1
04688	Benzo(a)anthracene	56-55-3	1,700		17	170		1
04688	Benzo(a)pyrene	50-32-8	1,800		17	170		1
04688	Benzo(b)fluoranthene	205-99-2	2,000		17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	1,800		17	170		1
04688	Benzo(k)fluoranthene	207-08-9	1,700		17	170		1
04688	Benzoic acid	65-85-0	360	J	170	500		1
04688	Benzyl alcohol	100-51-6	1,900		170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		17	170		1
04688	Butylbenzylphthalate	85-68-7	1,800		17	170		1
04688	Di-n-butylphthalate	84-74-2	1,800		17	170		1
04688	Carbazole	86-74-8	1,800		17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		34	170		1
04688	4-Chloroaniline	106-47-8	960		67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,600		17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,800		17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		17	170		1
04688	2-Chloronaphthalene	91-58-7	1,500		17	170		1
04688	2-Chlorophenol	95-57-8	1,900		17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		34	170		1
04688	Chrysene	218-01-9	1,600		17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	1,900		17	170		1
04688	Dibenzofuran	132-64-9	1,700		17	170		1
04688	1,2-Dichlorobenzene	95-50-1	1,700		17	170		1
04688	1,3-Dichlorobenzene	541-73-1	1,700		17	170		1
04688	1,4-Dichlorobenzene	106-46-7	1,600		17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,100		100	340		1
04688	2,4-Dichlorophenol	120-83-2	1,700		17	170		1
04688	Diethylphthalate	84-66-2	1,700		17	170		1
04688	2,4-Dimethylphenol	105-67-9	1,800		34	170		1
04688	3,5-Dimethylphenol	108-68-9	1,700		34	170		1
04688	Dimethylphthalate	131-11-3	1,700		17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	960		170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	1,800		34	170		1
04688	2,6-Dinitrotoluene	606-20-2	1,900		17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,900		17	340		1
04688	Fluoranthene	206-44-0	1,800		17	170		1
04688	Fluorene	86-73-7	1,800		17	170		1
04688	Hexachlorobenzene	118-74-1	1,700		17	170		1
04688	Hexachlorobutadiene	87-68-3	1,600		67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	2,600		170	500		1
04688	Hexachloroethane	67-72-1	1,700		17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900		17	170		1
04688	Isophorone	78-59-1	1,700		17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-042-SA7-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA7-SS-0.0-0.5

LLI Sample # SW 6412113
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4704 SDG#: DE247-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1-Methylnaphthalene	90-12-0	1,700		17	170		1
04688	2-Methylnaphthalene	91-57-6	1,700		17	170		1
04688	2-Methylphenol	95-48-7	1,900		34	170		1
04688	4-Methylphenol	106-44-5	1,800		34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,700		17	170		1
04688	2-Nitroaniline	88-74-4	1,700		17	170		1
04688	3-Nitroaniline	99-09-2	1,700		34	170		1
04688	4-Nitroaniline	100-01-6	1,200		67	170		1
04688	Nitrobenzene	98-95-3	1,700		17	170		1
04688	2-Nitrophenol	88-75-5	1,800		17	170		1
04688	4-Nitrophenol	100-02-7	1,500		170	500		1
04688	N-Nitrosodimethylamine	62-75-9	1,500		34	170		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700		17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	1,900		17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	2,000		17	170		1
04688	Pentachlorophenol	87-86-5	1,000		170	500		1
04688	Phenanthrene	85-01-8	1,800		17	170		1
04688	Phenol	108-95-2	1,800		17	170		1
04688	Pyrene	129-00-0	1,700		17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	1,700		17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	1,700		34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	1,800		34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	37		3.4	8.4		5
10138	Acenaphthylene	208-96-8	36		1.7	8.4		5
10138	Anthracene	120-12-7	38		1.7	8.4		5
10138	Benzo(a)anthracene	56-55-3	44		3.4	8.4		5
10138	Benzo(a)pyrene	50-32-8	46		3.4	8.4		5
10138	Benzo(b)fluoranthene	205-99-2	59		3.4	8.4		5
10138	Benzo(g,h,i)perylene	191-24-2	24		3.4	8.4		5
10138	Benzo(k)fluoranthene	207-08-9	46		3.4	8.4		5
10138	Butylbenzylphthalate	85-68-7	42	J	30	91		5
10138	Di-n-butylphthalate	84-74-2	44	J	30	91		5
10138	Chrysene	218-01-9	48		1.7	8.4		5
10138	Dibenz(a,h)anthracene	53-70-3	24		3.4	8.4		5
10138	Diethylphthalate	84-66-2	38	J	30	91		5
10138	Dimethylphthalate	131-11-3	38	J	30	91		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	82	J	30	91		5

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Sample Description: SL-042-SA7-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA7-SS-0.0-0.5

LLI Sample # SW 6412113
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4704 SDG#: DE247-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Fluoranthene	206-44-0	62		3.4	8.4		5
10138	Fluorene	86-73-7	37		3.4	8.4		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	26		3.4	8.4		5
10138	1-Methylnaphthalene	90-12-0	34		3.4	8.4		5
10138	2-Methylnaphthalene	91-57-6	34		3.4	8.4		5
10138	Naphthalene	91-20-3	35		3.4	8.4		5
10138	N-Nitrosodimethylamine	62-75-9	34		3.4	8.4		5
10138	Di-n-octylphthalate	117-84-0	61	J	30	91		5
10138	Phenanthrene	85-01-8	47		3.4	8.4		5
10138	Pyrene	129-00-0	55		3.4	8.4		5
Reporting limits were raised due to interference from the sample matrix.								
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	5.1		1.2	3.6		1
10401	Dalapon	75-99-0	11		4.4	9.0		1
10401	2,4-DB	94-82-6	7.5		0.63	1.7		1
10401	Dicamba	1918-00-9	1.4		0.40	1.2		1
10401	Dinoseb	88-85-7	1.2	J	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	6.9		0.81	1.7		1
10401	MCPA	94-74-6	140	J	76	250		1
10401	MCPP (Mecoprop)	93-65-2	310		75	250		1
10401	2,4,5-T	93-76-5	0.62		0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.33		0.076	0.17		1
The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.								
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.27		0.067	0.17		1
01363	Alpha BHC	319-84-6	0.26		0.034	0.17		1
01363	Beta BHC	319-85-7	0.17		0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.28		0.034	0.17		1
01363	Chlordane	57-74-9	4.0		0.81	3.4		1
01363	p,p-DDD	72-54-8	0.44		0.067	0.34		1
01363	p,p-DDE	72-55-9	0.66		0.067	0.34		1
01363	p,p-DDT	50-29-3	1.5		0.067	0.34		1
01363	Delta BHC	319-86-8	0.27		0.036	0.17		1
01363	Dieldrin	60-57-1	0.59		0.067	0.34		1
01363	Endosulfan I	959-98-8	0.18		0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.37		0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.52		0.067	0.34		1
01363	Endrin	72-20-8	0.40		0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.79		0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.40		0.067	0.34		1
01363	Heptachlor	76-44-8	0.31		0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.30		0.034	0.17		1
01363	Methoxychlor	72-43-5	3.2		0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

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Sample Description: **SL-042-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA7-SS-0.0-0.5

LLI Sample # SW 6412113
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4704 SDG#: DE247-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	16		0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	7.7		0.33	1.7		1
10225	PCB-1260	11096-82-5	15		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	14,800		5.98	19.8		1
07914	Boron	7440-42-8	196		0.356	4.94		1
01650	Calcium	7440-70-2	3,430		2.47	19.8		1
01654	Iron	7439-89-6	18,600		2.58	19.8		1
01656	Lithium	7439-93-2	125		0.61	2.0		1
01657	Magnesium	7439-95-4	4,440		0.435	9.89		1
06958	Manganese	7439-96-5	310		0.0356	0.494		1
10145	Phosphorus	7723-14-0	497		0.346	9.89		1
01662	Potassium	7440-09-7	4,330		11.2	49.4		1
01667	Sodium	7440-23-5	1,040		5.88	98.9		1
07968	Strontium	7440-24-6	113		0.0247	0.494		1
06969	Tin	7440-31-5	356		0.316	9.89		1
06970	Titanium	7440-32-6	1,310		0.0702	0.989		1
10146	Zirconium	7440-67-7	102		0.455	4.94		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.894		0.0746	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.48		0.0807	0.403		2
06126	Barium	7440-39-3	115		0.107	0.403		2
06127	Beryllium	7440-41-7	1.61		0.0161	0.101		2
06128	Cadmium	7440-43-9	1.67		0.0444	0.101		2
06131	Chromium	7440-47-3	29.5		0.121	0.403		2
06132	Cobalt	7440-48-4	74.0		0.0202	0.101		2
06133	Copper	7440-50-8	23.3		0.0807	0.403		2
06135	Lead	7439-92-1	11.9		0.0103	0.202		2
06138	Molybdenum	7439-98-7	14.5		0.0504	0.101		2
06139	Nickel	7440-02-0	26.5		0.101	0.403		2
06141	Selenium	7782-49-2	2.82		0.0585	0.403		2
06142	Silver	7440-22-4	13.7		0.0143	0.101		2
06145	Thallium	7440-28-0	0.799		0.0303	0.101		2
06148	Vanadium	7440-62-2	48.4		0.0222	0.101		2
06149	Zinc	7440-66-6	244		1.41	7.56		5

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Sample Description: SL-042-SA7-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA7-SS-0.0-0.5

LLI Sample # SW 6412113
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4704 SDG#: DE247-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.172	0.0070	0.0991		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	0.83	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11267SLH026	09/30/2011 14:21	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLD026	10/07/2011 00:18	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLD026	09/27/2011 18:00	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11267SLH026	09/28/2011 11:45	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670048A	09/29/2011 14:33	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670033A	09/30/2011 18:30	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112730025A	10/03/2011 12:28	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112670033A	09/27/2011 11:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	112730025A	10/01/2011 10:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670048A	09/28/2011 02:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	112645708002	09/29/2011 13:46	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112645708002	09/30/2011 11:00	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112645708002	09/29/2011 13:46	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112645708002	09/29/2011 13:46	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112645708002	09/29/2011 13:46	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112645708002	09/29/2011 13:46	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112645708002	09/30/2011 11:00	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112645708002	09/29/2011 13:46	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112645708002	09/29/2011 13:46	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112645708002	09/29/2011 13:46	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112645708002	09/30/2011 11:00	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112645708002	09/29/2011 13:46	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112645708002	09/29/2011 13:46	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112645708002	09/29/2011 13:46	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112641026001A	09/22/2011 11:27	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112641026001A	09/22/2011 11:27	Choon Y Tian	2

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Sample Description: **SL-042-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA7-SS-0.0-0.5

LLI Sample # SW 6412113
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4704 SDG#: DE247-04MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112641026001D	09/22/2011 11:27	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112641026001A	09/22/2011 11:27	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112641026001A	09/22/2011 11:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112641026001A	09/22/2011 11:27	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112641026001A	09/22/2011 11:27	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112641026001A	09/22/2011 11:27	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112641026001A	09/22/2011 11:27	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112641026001C	09/22/2011 11:27	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112641026001A	09/22/2011 11:27	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112641026001B	09/22/2011 11:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112641026001A	09/22/2011 11:27	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112641026001A	09/22/2011 11:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112641026001A	09/22/2011 11:27	Choon Y Tian	2
06149	Zinc	SW-846 6020	2	112641026001A	09/23/2011 14:35	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	112645711001	09/22/2011 09:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112645708002	09/21/2011 19:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112641026001	09/21/2011 19:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112645711001	09/21/2011 23:40	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11270162401A	09/27/2011 20:58	Scott W Freisher	1

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Analysis Report

Sample Description: SL-042-SA7-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA7-SS-0.0-0.5

LLI Sample # SW 6412114
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4704 SDG#: DE247-04DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,700		6.10	20.2		1
07914	Boron	7440-42-8	0.363	U	0.363	5.04		1
01650	Calcium	7440-70-2	2,840		2.52	20.2		1
01654	Iron	7439-89-6	18,300		2.63	20.2		1
01656	Lithium	7439-93-2	23.8		0.63	2.0		1
01657	Magnesium	7439-95-4	4,070		0.444	10.1		1
06958	Manganese	7439-96-5	274		0.0363	0.504		1
10145	Phosphorus	7723-14-0	399		0.353	10.1		1
01662	Potassium	7440-09-7	3,110		11.4	50.4		1
01667	Sodium	7440-23-5	68.9	J	6.00	101		1
07968	Strontium	7440-24-6	15.2		0.0252	0.504		1
06969	Tin	7440-31-5	2.87	J	0.323	10.1		1
06970	Titanium	7440-32-6	1,080		0.0716	1.01		1
10146	Zirconium	7440-67-7	3.42	J	0.464	5.04		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.120	J	0.0739	0.200		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.90		0.0799	0.399		2
06126	Barium	7440-39-3	111		0.106	0.399		2
06127	Beryllium	7440-41-7	0.659		0.0160	0.0998		2
06128	Cadmium	7440-43-9	0.409		0.0439	0.0998		2
06131	Chromium	7440-47-3	21.8		0.120	0.399		2
06132	Cobalt	7440-48-4	7.15		0.0200	0.0998		2
06133	Copper	7440-50-8	10.6		0.0799	0.399		2
06135	Lead	7439-92-1	8.81		0.0102	0.200		2
06138	Molybdenum	7439-98-7	0.611		0.0499	0.0998		2
06139	Nickel	7440-02-0	15.8		0.0998	0.399		2
06141	Selenium	7782-49-2	0.129	J	0.0579	0.399		2
06142	Silver	7440-22-4	0.0377	J	0.0142	0.0998		2
06145	Thallium	7440-28-0	0.323		0.0300	0.0998		2
06148	Vanadium	7440-62-2	40.2		0.0220	0.0998		2
06149	Zinc	7440-66-6	379		1.40	7.49		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0080	J	0.0069	0.0984		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.27	J	0.20	1.0		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-042-SA7-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA7-SS-0.0-0.5

LLI Sample # SW 6412114
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4704 SDG#: DE247-04DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.15	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	0.92	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						
11625	Moisture Content by 160.3	n.a.	0.83	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	112645708002	09/29/2011 13:38	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112645708002	09/30/2011 10:52	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112645708002	09/29/2011 13:38	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112645708002	09/29/2011 13:38	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112645708002	09/29/2011 13:38	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112645708002	09/29/2011 13:38	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112645708002	09/30/2011 10:52	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112645708002	09/29/2011 13:38	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112645708002	09/29/2011 13:38	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112645708002	09/29/2011 13:38	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112645708002	09/30/2011 10:52	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112645708002	09/29/2011 13:38	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112645708002	09/29/2011 13:38	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112645708002	09/29/2011 13:38	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112641026001A	09/22/2011 11:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112641026001A	09/22/2011 11:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112641026001D	09/22/2011 11:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112641026001A	09/22/2011 11:21	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112641026001A	09/22/2011 11:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112641026001A	09/22/2011 11:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112641026001A	09/22/2011 11:21	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112641026001A	09/22/2011 11:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112641026001A	09/22/2011 11:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112641026001C	09/22/2011 11:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112641026001A	09/22/2011 11:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112641026001B	09/22/2011 11:21	Choon Y Tian	2

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Analysis Report

Sample Description: **SL-042-SA7-SS-0.0-0.5DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA7-SS-0.0-0.5

LLI Sample # SW 6412114
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4704 SDG#: DE247-04DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	112641026001A	09/22/2011 11:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112641026001A	09/22/2011 11:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112641026001A	09/22/2011 11:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	2	112641026001A	09/23/2011 14:30	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	112645711001	09/22/2011 09:07	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112645708002	09/21/2011 19:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112641026001	09/21/2011 19:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112645711001	09/21/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11270621202A	09/28/2011 19:57	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11266621201A	09/27/2011 15:51	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11273243201A	10/04/2011 14:58	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11270621202A	09/27/2011 07:25	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621201A	09/23/2011 05:35	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039403A	09/26/2011 10:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11273243201A	09/30/2011 09:15	Michelle L Lalli	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11270162401A	09/27/2011 20:58	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11270162401A	09/27/2011 20:58	Scott W Freisher	1

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Analysis Report

Sample Description: SL-042-SA7-SS-0.0-0.5RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA7-SS-0.0-0.5

LLI Sample # SW 6412115
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4704 SDG#: DE247-04RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	5.8		0.63	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	2.2		0.81	1.7		1
10401	MCPA	94-74-6	140	U	140	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.66		0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.14	J	0.066	0.17		1
01363	Alpha BHC	319-84-6	0.14	J	0.034	0.17		1
01363	Beta BHC	319-85-7	0.19		0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.16	J	0.034	0.17		1
01363	Chlordane	57-74-9	1.4	J	0.80	3.4		1
01363	p,p-DDD	72-54-8	0.38		0.066	0.34		1
01363	p,p-DDE	72-55-9	0.32	J	0.066	0.34		1
01363	p,p-DDT	50-29-3	0.80		0.066	0.34		1
01363	Delta BHC	319-86-8	0.24		0.036	0.17		1
01363	Dieldrin	60-57-1	0.30	J	0.066	0.34		1
01363	Endosulfan I	959-98-8	0.10	J	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.23	J	0.066	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.34		0.066	0.34		1
01363	Endrin	72-20-8	0.33	J	0.066	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.25	J	0.066	0.34		1
01363	Endrin Ketone	53494-70-5	0.20	J	0.066	0.34		1
01363	Heptachlor	76-44-8	0.16	J	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.15	J	0.034	0.17		1
01363	Methoxychlor	72-43-5	1.7		0.34	1.7		1
01363	Mirex	2385-85-5	0.066	U	0.066	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.6		1

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	2.2		0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1
10225	PCB-1260	11096-82-5	2.7		0.39	1.7		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-042-SA7-SS-0.0-0.5RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA7-SS-0.0-0.5

LLI Sample # SW 6412115
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4704 SDG#: DE247-04RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.83		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670048A	09/29/2011 21:00	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670033A	09/30/2011 19:14	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670023A	09/28/2011 13:50	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112670033A	09/27/2011 11:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670023A	09/27/2011 10:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670048A	09/28/2011 02:00	David V Hershey Jr	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11270162401A	09/27/2011 20:58	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-042-SA7-SS-0.0-0.5RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA7-SS-0.0-0.5

LLI Sample # SW 6412116
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4704 SDG#: DE247-04RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	4.5		1.2	3.6		1
10401	Dalapon	75-99-0	6.4	J	3.9	9.0		1
10401	2,4-DB	94-82-6	1.5	J	0.62	1.7		1
10401	Dicamba	1918-00-9	0.45	J	0.20	1.2		1
10401	Dinoseb	88-85-7	0.49	J	0.20	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	2.6		0.80	1.7		1
10401	MCPA	94-74-6	170	J	76	250		1
10401	MCPP (Mecoprop)	93-65-2	200	J	60	250		1
10401	2,4,5-T	93-76-5	0.19		0.082	0.17		1
10401	2,4,5-TP	93-72-1	0.15	J	0.075	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.092	J	0.066	0.17		1
01363	Alpha BHC	319-84-6	0.091	J	0.034	0.17		1
01363	Beta BHC	319-85-7	0.15	J	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.10	J	0.034	0.17		1
01363	Chlordane	57-74-9	0.80	U	0.80	3.4		1
01363	p,p-DDD	72-54-8	0.30	J	0.066	0.34		1
01363	p,p-DDE	72-55-9	0.28	J	0.066	0.34		1
01363	p,p-DDT	50-29-3	0.31	J	0.066	0.34		1
01363	Delta BHC	319-86-8	0.14	J	0.036	0.17		1
01363	Dieldrin	60-57-1	0.24	J	0.066	0.34		1
01363	Endosulfan I	959-98-8	0.10	J	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.18	J	0.066	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.25	J	0.066	0.34		1
01363	Endrin	72-20-8	0.27	J	0.066	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.19	J	0.066	0.34		1
01363	Endrin Ketone	53494-70-5	0.39		0.066	0.34		1
01363	Heptachlor	76-44-8	0.10	J	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.12	J	0.034	0.17		1
01363	Methoxychlor	72-43-5	1.5	J	0.34	1.7		1
01363	Mirex	2385-85-5	0.066	U	0.066	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.6		1

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	1.8		0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1
10225	PCB-1260	11096-82-5	1.8		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-042-SA7-SS-0.0-0.5RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA7-SS-0.0-0.5

LLI Sample # SW 6412116
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4704 SDG#: DE247-04RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670048A	09/29/2011	21:27	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670033A	09/30/2011	19:42	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670023A	09/28/2011	14:09	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112670033A	09/27/2011	11:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670023A	09/27/2011	10:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670048A	09/28/2011	02:00	David V Hershey Jr	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-048-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA7-SS-0.0-0.5

LLI Sample # SW 6412117
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:55

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4705 SDG#: DE247-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	165	U	165	330		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(g,h,i)perylene	191-24-2	19	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-048-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA7-SS-0.0-0.5

LLI Sample # SW 6412117
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:55

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4705 SDG#: DE247-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	5.7	J	3.4	8.4		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.4		5
10138	Anthracene	120-12-7	20		1.7	8.4		5
10138	Benzo(a)anthracene	56-55-3	64		3.4	8.4		5
10138	Benzo(a)pyrene	50-32-8	54		3.4	8.4		5
10138	Benzo(b)fluoranthene	205-99-2	98		3.4	8.4		5
10138	Benzo(k)fluoranthene	207-08-9	39		3.4	8.4		5
10138	Chrysene	218-01-9	65		1.7	8.4		5
10138	Dibenz(a,h)anthracene	53-70-3	5.8	J	3.4	8.4		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	42	J	30	91		5
10138	Fluoranthene	206-44-0	170		3.4	8.4		5
10138	Fluorene	86-73-7	5.7	J	3.4	8.4		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	15		3.4	8.4		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.4		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.4		5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4		5
10138	Phenanthrene	85-01-8	99		3.4	8.4		5
10138	Pyrene	129-00-0	140		3.4	8.4		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	60	U	60	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	40	U	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-048-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA7-SS-0.0-0.5

LLI Sample # SW 6412117
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:55

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4705 SDG#: DE247-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	40	U	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	40	U	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	40	U	40	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	40	U	40	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	50	U	50	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	40	U	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	40	U	40	120	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	1.6	J	0.62	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1
10401	MCPA	94-74-6	76	U	76	250		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.082	U	0.082	0.17		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	600	U	600	1,500		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-048-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA7-SS-0.0-0.5

LLI Sample # SW 6412117
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:55

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4705 SDG#: DE247-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.23		0.034	0.17		1
01363	Chlordane	57-74-9	96		8.1	34		10
01363	p,p-DDD	72-54-8	7.7		0.66	3.4		10
01363	p,p-DDE	72-55-9	0.29	U	0.29	0.34		1
01363	p,p-DDT	50-29-3	0.68	U	0.68	0.68		1
01363	Delta BHC	319-86-8	0.054	U	0.054	0.17		1
01363	Dieldrin	60-57-1	0.15	U	0.15	0.34		1
01363	Endosulfan I	959-98-8	0.35	U	0.35	0.35		1
01363	Endosulfan II	33213-65-9	0.066	U	0.066	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.10	U	0.10	0.34		1
01363	Endrin	72-20-8	0.072	U	0.072	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.25	U	0.25	0.34		1
01363	Endrin Ketone	53494-70-5	0.066	U	0.066	0.34		1
01363	Heptachlor	76-44-8	0.60	U	0.60	1.7		10
01363	Heptachlor Epoxide	1024-57-3	0.25	U	0.25	0.25		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.27	U	0.27	0.34		1
01363	Toxaphene	8001-35-2	12	U	12	12		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	3.5		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	2.0		0.33	1.7		1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1
10225	PCB-1260	11096-82-5	1.9		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	100	U	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-048-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA7-SS-0.0-0.5

LLI Sample # SW 6412117
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:55

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4705 SDG#: DE247-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.0	U	4.0	12		10
10199	EFH (C15-C20)	n.a.	4.0	U	4.0	12		10
10199	EFH (C21-C30)	n.a.	45		4.0	12		10
10199	EFH (C30 - C40)	n.a.	150		4.0	12		10
10199	EFH (C8-C11)	n.a.	4.0	U	4.0	12		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,700		5.97	19.7		1
07914	Boron	7440-42-8	0.355	U	0.355	4.94		1
01650	Calcium	7440-70-2	4,520		2.47	19.7		1
01654	Iron	7439-89-6	19,600		2.58	19.7		1
01656	Lithium	7439-93-2	25.4		0.61	2.0		1
01657	Magnesium	7439-95-4	4,700		0.434	9.87		1
06958	Manganese	7439-96-5	276		0.0355	0.494		1
10145	Phosphorus	7723-14-0	394		0.345	9.87		1
01662	Potassium	7440-09-7	3,080		11.2	49.4		1
01667	Sodium	7440-23-5	90.0	J	5.87	98.7		1
07968	Strontium	7440-24-6	17.5		0.0247	0.494		1
06969	Tin	7440-31-5	2.65	J	0.316	9.87		1
06970	Titanium	7440-32-6	1,160		0.0701	0.987		1
10146	Zirconium	7440-67-7	2.13	J	0.454	4.94		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.168	J	0.0738	0.199		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.08		0.0798	0.399		2
06126	Barium	7440-39-3	106		0.106	0.399		2
06127	Beryllium	7440-41-7	0.584		0.0160	0.0997		2
06128	Cadmium	7440-43-9	0.314		0.0439	0.0997		2
06131	Chromium	7440-47-3	19.5		0.120	0.399		2
06132	Cobalt	7440-48-4	6.89		0.0199	0.0997		2
06133	Copper	7440-50-8	10.7		0.0798	0.399		2

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Sample Description: **SL-048-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA7-SS-0.0-0.5

LLI Sample # SW 6412117
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:55

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4705 SDG#: DE247-05

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead		7439-92-1	12.4		0.0102	0.199		2
06138	Molybdenum		7439-98-7	0.500		0.0498	0.0997		2
06139	Nickel		7440-02-0	13.5		0.0997	0.399		2
06141	Selenium		7782-49-2	0.114	J	0.0578	0.399		2
06142	Silver		7440-22-4	0.0353	J	0.0142	0.0997		2
06145	Thallium		7440-28-0	0.290		0.0299	0.0997		2
06148	Vanadium		7440-62-2	37.9		0.0219	0.0997		2
06149	Zinc		7440-66-6	120		0.558	2.99		2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0095	J	0.0069	0.0980		1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	1.5		0.80	1.0		1
07336	11a Anions by 300.0 - Nitrate		14797-55-8	0.80	U	0.80	1.5		1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	9.1	U	9.1	30.2		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.28	J	0.20	1.0		1
		SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B		57-12-5	0.17	U	0.17	0.48		1
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C		n.a.	7.82		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	0.68		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-048-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA7-SS-0.0-0.5

LLI Sample # SW 6412117
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:55

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4705 SDG#: DE247-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11265SLB026	09/29/2011 20:06	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11267SLH026	09/30/2011 16:01	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLD026	10/07/2011 02:27	Gregory J Drahovsky	5
11630	NDMA Soil Microwave	SW-846 3546	1	11265SLB026	09/23/2011 10:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLD026	09/27/2011 18:00	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11267SLH026	09/28/2011 11:45	Olivia I Santiago	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112640025A	09/24/2011 12:57	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670007A	09/28/2011 17:54	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670048A	09/29/2011 21:55	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670033A	09/30/2011 21:53	Melissa McDermott	10
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670033A	10/03/2011 03:23	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670023A	09/28/2011 14:28	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112670033A	09/27/2011 11:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670023A	09/27/2011 10:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670048A	09/28/2011 02:00	David V Hershey Jr	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670007A	09/26/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112640025A	09/22/2011 11:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112640035A	09/22/2011 23:33	Elizabeth J Marin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112640035A	09/23/2011 20:59	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112640014A	09/22/2011 11:01	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112670016A	09/27/2011 01:25	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112660005A	09/27/2011 15:55	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112660005A	09/23/2011 15:00	Wanda F Oswald	1
10303	Terphenyls soil prep	SW-846 3550B	1	112670016A	09/26/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112640035A	09/22/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112640014A	09/22/2011 07:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112645708002	09/29/2011 14:14	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112645708002	09/30/2011 11:27	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112645708002	09/29/2011 14:14	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112645708002	09/29/2011 14:14	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112645708002	09/29/2011 14:14	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112645708002	09/29/2011 14:14	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112645708002	09/30/2011 11:27	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112645708002	09/29/2011 14:14	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112645708002	09/29/2011 14:14	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112645708002	09/29/2011 14:14	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112645708002	09/30/2011 11:27	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112645708002	09/29/2011 14:14	Joanne M Gates	1

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Sample Description: **SL-048-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA7-SS-0.0-0.5

LLI Sample # SW 6412117
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:55

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4705 SDG#: DE247-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112645708002	09/29/2011 14:14	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112645708002	09/29/2011 14:14	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112641026001A	09/22/2011 11:49	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112641026001A	09/22/2011 11:49	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112641026001D	09/22/2011 11:49	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112641026001A	09/22/2011 11:49	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112641026001A	09/22/2011 11:49	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112641026001A	09/22/2011 11:49	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112641026001A	09/22/2011 11:49	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112641026001A	09/22/2011 11:49	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112641026001A	09/22/2011 11:49	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112641026001C	09/22/2011 11:49	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112641026001A	09/22/2011 11:49	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112641026001B	09/22/2011 11:49	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112641026001A	09/22/2011 11:49	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112641026001A	09/22/2011 11:49	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112641026001A	09/22/2011 11:49	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112641026001A	09/22/2011 11:49	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112645711001	09/22/2011 09:10	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112645708002	09/21/2011 19:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112641026001	09/21/2011 19:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112645711001	09/21/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11270621202A	09/28/2011 21:26	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11270621202A	09/28/2011 21:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11266621201A	09/27/2011 18:09	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11273243201A	10/04/2011 15:11	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11273102201A	10/03/2011 08:57	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11270621202A	09/27/2011 07:25	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621201A	09/23/2011 05:35	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11273102201A	09/30/2011 15:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039403A	09/26/2011 10:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11273243201A	09/30/2011 09:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11272162401B	09/29/2011 21:46	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-110-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-SA7-SS-0.0-0.5

LLI Sample # SW 6412118
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 08:40

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4706 SDG#: DE247-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	167	U	167	334		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	2-butoxy-Ethanol	111-76-2	1,700	U	1,700	1,700		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1

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Sample Description: SL-110-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-SA7-SS-0.0-0.5

LLI Sample # SW 6412118
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 08:40

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4706 SDG#: DE247-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	2-phenoxy-Ethanol	122-99-6	1,700	U	1,700	1,700		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.5		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.5		5
10138	Anthracene	120-12-7	2.2	J	1.7	8.5		5
10138	Benzo(a)anthracene	56-55-3	10		3.4	8.5		5
10138	Benzo(a)pyrene	50-32-8	13		3.4	8.5		5
10138	Benzo(b)fluoranthene	205-99-2	48		3.4	8.5		5
10138	Benzo(g,h,i)perylene	191-24-2	5.3	J	3.4	8.5		5
10138	Benzo(k)fluoranthene	207-08-9	9.9		3.4	8.5		5
10138	Chrysene	218-01-9	14		1.7	8.5		5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.5		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	59	J	31	92		5
10138	Fluoranthene	206-44-0	28		3.4	8.5		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.5		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.7	J	3.4	8.5		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.5		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.5		5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.5		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.5		5
10138	Phenanthrene	85-01-8	14		3.4	8.5		5
10138	Pyrene	129-00-0	24		3.4	8.5		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	0.63	U	0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1

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Sample Description: SL-110-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-110-SA7-SS-0.0-0.5

LLI Sample # SW 6412118
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 08:40

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4706 SDG#: DE247-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.084	U	0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	4.1		0.81	3.5		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35		1
01363	p,p-DDE	72-55-9	0.38	U	0.38	0.38		1
01363	p,p-DDT	50-29-3	0.96		0.067	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.094	U	0.094	0.35		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.057	U	0.057	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.15	U	0.15	0.35		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	7.2		1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	2.4		0.34	1.7		1
10225	PCB-1254	11097-69-1	5.2		0.34	1.7		1
10225	PCB-1260	11096-82-5	3.4		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1

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Sample Description: **SL-110-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-110-SA7-SS-0.0-0.5

LLI Sample # SW 6412118
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 08:40

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4706 SDG#: DE247-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.1	U	4.1	12		10
10199	EFH (C15-C20)	n.a.	4.1	U	4.1	12		10
10199	EFH (C21-C30)	n.a.	65		4.1	12		10
10199	EFH (C30 - C40)	n.a.	190		4.1	12		10
10199	EFH (C8-C11)	n.a.	4.1	U	4.1	12		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,500		6.04	20.0		1
07914	Boron	7440-42-8	0.531	J	0.359	4.99		1
01650	Calcium	7440-70-2	10,400		2.50	20.0		1
01654	Iron	7439-89-6	20,800		2.61	20.0		1
01656	Lithium	7439-93-2	24.5		0.62	2.0		1
01657	Magnesium	7439-95-4	4,660		0.439	9.98		1
06958	Manganese	7439-96-5	262		0.0359	0.499		1
10145	Phosphorus	7723-14-0	436		0.349	9.98		1
01662	Potassium	7440-09-7	3,340		11.3	49.9		1
01667	Sodium	7440-23-5	83.4	J	5.94	99.8		1
07968	Strontium	7440-24-6	21.9		0.0250	0.499		1
06969	Tin	7440-31-5	2.64	J	0.319	9.98		1
06970	Titanium	7440-32-6	1,110		0.0709	0.998		1
10146	Zirconium	7440-67-7	2.79	J	0.459	4.99		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.183	J	0.0754	0.204		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.01		0.0815	0.407		2
06126	Barium	7440-39-3	104		0.108	0.407		2

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Sample Description: **SL-110-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-110-SA7-SS-0.0-0.5

LLI Sample # SW 6412118
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 08:40

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4706 SDG#: DE247-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.603		0.0163	0.102		2
06128	Cadmium	7440-43-9	0.296		0.0448	0.102		2
06131	Chromium	7440-47-3	20.2		0.122	0.407		2
06132	Cobalt	7440-48-4	8.00		0.0204	0.102		2
06133	Copper	7440-50-8	12.8		0.0815	0.407		2
06135	Lead	7439-92-1	13.5		0.0104	0.204		2
06138	Molybdenum	7439-98-7	0.509		0.0509	0.102		2
06139	Nickel	7440-02-0	16.0		0.102	0.407		2
06141	Selenium	7782-49-2	0.166	J	0.0591	0.407		2
06142	Silver	7440-22-4	0.0483	J	0.0145	0.102		2
06145	Thallium	7440-28-0	0.293		0.0305	0.102		2
06148	Vanadium	7440-62-2	38.6		0.0224	0.102		2
06149	Zinc	7440-66-6	147		0.570	3.05		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0103	J	0.0069	0.0978		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.97	J	0.82	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	J	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.84		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.8		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-110-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-110-SA7-SS-0.0-0.5

LLI Sample # SW 6412118
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 08:40

Submitted: 09/20/2011 09:10
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E4706 SDG#: DE247-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11265SLB026	09/29/2011 20:25	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11267SLH026	09/30/2011 16:26	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLD026	10/07/2011 02:59	Gregory J Drahovsky	5
11630	NDMA Soil Microwave	SW-846 3546	1	11265SLB026	09/23/2011 10:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLD026	09/27/2011 18:00	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11267SLH026	09/28/2011 11:45	Olivia I Santiago	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670007A	09/28/2011 18:04	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670048A	09/29/2011 23:17	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670033A	09/30/2011 22:08	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670023A	09/28/2011 14:46	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112670033A	09/27/2011 11:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670023A	09/27/2011 10:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670048A	09/28/2011 02:00	David V Hershey Jr	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670007A	09/26/2011 14:30	Wanda F Oswald	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112640035A	09/22/2011 23:48	Elizabeth J Marin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112640035A	09/23/2011 21:14	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112640014A	09/22/2011 11:14	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112670016A	09/27/2011 01:47	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112660005A	09/27/2011 16:19	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112660005A	09/23/2011 15:00	Wanda F Oswald	1
10303	Terphenyls soil prep	SW-846 3550B	1	112670016A	09/26/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112640035A	09/22/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112640014A	09/22/2011 07:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112645708002	09/29/2011 14:18	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112645708002	09/30/2011 11:31	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112645708002	09/29/2011 14:18	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112645708002	09/29/2011 14:18	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112645708002	09/29/2011 14:18	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112645708002	09/29/2011 14:18	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112645708002	09/30/2011 11:31	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112645708002	09/29/2011 14:18	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112645708002	09/29/2011 14:18	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112645708002	09/29/2011 14:18	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112645708002	09/30/2011 11:31	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112645708002	09/29/2011 14:18	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112645708002	09/29/2011 14:18	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112645708002	09/29/2011 14:18	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112641026001A	09/22/2011 11:52	Choon Y Tian	2

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Sample Description: **SL-110-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-110-SA7-SS-0.0-0.5

LLI Sample # SW 6412118
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 08:40

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E4706 SDG#: DE247-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	112641026001A	09/22/2011 11:52	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112641026001D	09/22/2011 11:52	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112641026001A	09/22/2011 11:52	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112641026001A	09/22/2011 11:52	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112641026001A	09/22/2011 11:52	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112641026001A	09/22/2011 11:52	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112641026001A	09/22/2011 11:52	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112641026001A	09/22/2011 11:52	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112641026001C	09/22/2011 11:52	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112641026001A	09/22/2011 11:52	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112641026001B	09/22/2011 11:52	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112641026001A	09/22/2011 11:52	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112641026001A	09/22/2011 11:52	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112641026001A	09/22/2011 11:52	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112641026001A	09/22/2011 11:52	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112645711001	09/22/2011 09:14	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112645708002	09/21/2011 19:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112641026001	09/21/2011 19:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112645711001	09/21/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11270621202A	09/28/2011 21:39	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11270621202A	09/28/2011 21:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11266621201A	09/27/2011 18:32	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11273243201A	10/04/2011 15:31	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11270621202A	09/27/2011 07:25	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621201A	09/23/2011 05:35	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039403A	09/26/2011 10:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11273243201A	09/30/2011 09:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11270162401A	09/27/2011 20:58	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-111-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA7-SS-0.0-0.5

LLI Sample # SW 6412119
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:55

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4707 SDG#: DE247-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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SSFL Area IV Collocated Soil Sampling
SL-111-SA7-SS-0.0-0.5

LLI Sample # SW 6412119
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:55

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4707 SDG#: DE247-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.6		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.6		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.6		5
10138	Benzo(a)anthracene	56-55-3	4.9	J	3.4	8.6		5
10138	Benzo(a)pyrene	50-32-8	6.8	J	3.4	8.6		5
10138	Benzo(b)fluoranthene	205-99-2	27		3.4	8.6		5
10138	Benzo(g,h,i)perylene	191-24-2	3.4	U	3.4	8.6		5
10138	Benzo(k)fluoranthene	207-08-9	5.6	J	3.4	8.6		5
10138	Chrysene	218-01-9	14		1.7	8.6		5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.6		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	56	J	31	93		5
10138	Fluoranthene	206-44-0	22		3.4	8.6		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.6		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.4	U	3.4	8.6		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.6		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.6		5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.6		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.6		5
10138	Phenanthrene	85-01-8	6.6	J	3.4	8.6		5
10138	Pyrene	129-00-0	18		3.4	8.6		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	1.0	J	0.64	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	78	U	78	260		1
10401	MCPP (Mecoprop)	93-65-2	150	U	150	260		1
10401	2,4,5-T	93-76-5	0.15	U	0.15	0.17		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does							

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SSFL Area IV Collocated Soil Sampling
SL-111-SA7-SS-0.0-0.5

LLI Sample # SW 6412119
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:55

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4707 SDG#: DE247-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17		1
01363	Alpha BHC	319-84-6	0.13	J	0.035	0.17		1
01363	Beta BHC	319-85-7	0.18	U	0.18	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.066	U	0.066	0.17		1
01363	Chlordane	57-74-9	1.1	J	0.82	3.5		1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35		1
01363	p,p-DDE	72-55-9	0.18	U	0.18	0.35		1
01363	p,p-DDT	50-29-3	0.23	U	0.23	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.068	U	0.068	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.21	U	0.21	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35		1
01363	Endrin	72-20-8	0.068	U	0.068	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.13	U	0.13	0.35		1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35		1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.068	U	0.068	0.35		1
01363	Toxaphene	8001-35-2	5.6	J	2.3	6.8		1
	Reporting limits were raised due to interference from the sample matrix.							
	The sample was injected following maintenance and a new calibration. Toxaphene in the calibration check standard bracketing the sample was outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	5.8		1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	1.7	J	0.34	1.8		1
10225	PCB-1254	11097-69-1	7.1		0.34	1.8		1
10225	PCB-1260	11096-82-5	4.0		0.40	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,900		6.17	20.4		1
07914	Boron	7440-42-8	0.367	U	0.367	5.10		1
01650	Calcium	7440-70-2	4,850		2.55	20.4		1

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Sample Description: **SL-111-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-111-SA7-SS-0.0-0.5

LLI Sample # SW 6412119
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:55

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E4707 SDG#: DE247-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	21,100		2.66	20.4		1
01656	Lithium	7439-93-2	26.6		0.63	2.0		1
01657	Magnesium	7439-95-4	4,830		0.449	10.2		1
06958	Manganese	7439-96-5	312		0.0367	0.510		1
10145	Phosphorus	7723-14-0	502		0.357	10.2		1
01662	Potassium	7440-09-7	3,900		11.5	51.0		1
01667	Sodium	7440-23-5	79.4	J	6.07	102		1
07968	Strontium	7440-24-6	24.2		0.0255	0.510		1
06969	Tin	7440-31-5	2.96	J	0.326	10.2		1
06970	Titanium	7440-32-6	1,220		0.0724	1.02		1
10146	Zirconium	7440-67-7	1.94	J	0.469	5.10		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.173	J	0.0755	0.204		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.57		0.0816	0.408		2
06126	Barium	7440-39-3	116		0.108	0.408		2
06127	Beryllium	7440-41-7	0.620		0.0163	0.102		2
06128	Cadmium	7440-43-9	0.578		0.0449	0.102		2
06131	Chromium	7440-47-3	20.0		0.122	0.408		2
06132	Cobalt	7440-48-4	7.01		0.0204	0.102		2
06133	Copper	7440-50-8	13.4		0.0816	0.408		2
06135	Lead	7439-92-1	13.1		0.0104	0.204		2
06138	Molybdenum	7439-98-7	0.783		0.0510	0.102		2
06139	Nickel	7440-02-0	13.9		0.102	0.408		2
06141	Selenium	7782-49-2	0.227	J	0.0591	0.408		2
06142	Silver	7440-22-4	0.0619	J	0.0145	0.102		2
06145	Thallium	7440-28-0	0.336		0.0306	0.102		2
06148	Vanadium	7440-62-2	42.6		0.0224	0.102		2
06149	Zinc	7440-66-6	159		1.43	7.65		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0197	J	0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.84	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	30.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-111-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA7-SS-0.0-0.5

LLI Sample # SW 6412119
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E4707 SDG#: DE247-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.33	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.9	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11267SLH026	09/30/2011 16:51	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLD026	10/07/2011 03:31	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLD026	09/27/2011 18:00	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11267SLH026	09/28/2011 11:45	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670048A	09/29/2011 23:45	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670033A	09/30/2011 22:37	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670023A	09/28/2011 15:05	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112670033A	09/27/2011 11:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670023A	09/27/2011 10:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670048A	09/28/2011 02:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	112645708002	09/29/2011 14:22	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112645708002	09/30/2011 11:35	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112645708002	09/29/2011 14:22	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112645708002	09/29/2011 14:22	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112645708002	09/29/2011 14:22	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112645708002	09/29/2011 14:22	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112645708002	09/30/2011 11:35	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112645708002	09/29/2011 14:22	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112645708002	09/29/2011 14:22	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112645708002	09/29/2011 14:22	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112645708002	09/30/2011 11:35	Joanne M Gates	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-111-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-111-SA7-SS-0.0-0.5

LLI Sample # SW 6412119
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:55

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4707 SDG#: DE247-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112645708002	09/29/2011 14:22	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112645708002	09/29/2011 14:22	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112645708002	09/29/2011 14:22	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112641026001A	09/22/2011 11:55	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112641026001A	09/22/2011 11:55	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112641026001D	09/22/2011 11:55	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112641026001A	09/22/2011 11:55	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112641026001A	09/22/2011 11:55	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112641026001A	09/22/2011 11:55	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112641026001A	09/22/2011 11:55	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112641026001A	09/22/2011 11:55	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112641026001A	09/22/2011 11:55	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112641026001C	09/22/2011 11:55	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112641026001A	09/22/2011 11:55	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112641026001B	09/22/2011 11:55	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112641026001A	09/22/2011 11:55	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112641026001A	09/22/2011 11:55	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112641026001A	09/22/2011 11:55	Choon Y Tian	2
06149	Zinc	SW-846 6020	2	112641026001A	09/23/2011 14:41	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	112645711001	09/22/2011 09:15	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112645708002	09/21/2011 19:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112641026001	09/21/2011 19:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112645711001	09/21/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11270621202A	09/28/2011 21:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11266621201A	09/27/2011 18:55	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11273243201A	10/04/2011 15:38	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11270621202A	09/27/2011 07:25	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621201A	09/23/2011 05:35	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039403A	09/26/2011 10:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11273243201A	09/30/2011 09:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11270162401A	09/27/2011 20:58	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-122-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA7-SS-0.0-0.5

LLI Sample # SW 6412120
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:00

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4708 SDG#: DE247-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	16.6	U	16.6	33.2		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-122-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-122-SA7-SS-0.0-0.5

LLI Sample # SW 6412120
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:00

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4708 SDG#: DE247-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.4		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.4		5
10138	Anthracene	120-12-7	5.8	J	1.7	8.4		5
10138	Benzo(a)anthracene	56-55-3	15		3.4	8.4		5
10138	Benzo(a)pyrene	50-32-8	20		3.4	8.4		5
10138	Benzo(b)fluoranthene	205-99-2	68		3.4	8.4		5
10138	Benzo(g,h,i)perylene	191-24-2	12		3.4	8.4		5
10138	Benzo(k)fluoranthene	207-08-9	3.4	U	3.4	8.4		5
10138	Chrysene	218-01-9	42		1.7	8.4		5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.4		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	84	J	30	91		5
10138	Fluoranthene	206-44-0	93		3.4	8.4		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.4		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	9.6		3.4	8.4		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.4		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.4		5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4		5
10138	Phenanthrene	85-01-8	37		3.4	8.4		5
10138	Pyrene	129-00-0	62		3.4	8.4		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-122-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-122-SA7-SS-0.0-0.5

LLI Sample # SW 6412120
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:00

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4708 SDG#: DE247-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	0.63	U	0.63	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	120	U	120	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.26		0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. Reporting limits were raised due to interference from the sample matrix.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-122-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-122-SA7-SS-0.0-0.5

LLI Sample # SW 6412120
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:00

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4708 SDG#: DE247-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.21	U	0.21	0.34		1
01363	p,p-DDE	72-55-9	0.14	J	0.067	0.34		1
01363	p,p-DDT	50-29-3	0.69		0.067	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.094	J	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.096	U	0.096	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.17	J	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.32	J	0.067	0.34		1
01363	Toxaphene	8001-35-2	8.5	U	8.5	8.5		1

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	8.5		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	18		0.33	1.7		1
10225	PCB-1260	11096-82-5	7.9		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-122-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-122-SA7-SS-0.0-0.5

LLI Sample # SW 6412120
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:00

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4708 SDG#: DE247-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.1	U	4.1	12		10
10199	EFH (C15-C20)	n.a.	12		4.1	12		10
10199	EFH (C21-C30)	n.a.	100		4.1	12		10
10199	EFH (C30 - C40)	n.a.	320		4.1	12		10
10199	EFH (C8-C11)	n.a.	4.1	U	4.1	12		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,200		6.01	19.9		1
07914	Boron	7440-42-8	0.358	U	0.358	4.97		1
01650	Calcium	7440-70-2	7,010		2.48	19.9		1
01654	Iron	7439-89-6	28,800		5.19	39.7		2
01656	Lithium	7439-93-2	35.5		0.62	2.0		1
01657	Magnesium	7439-95-4	7,150		0.437	9.93		1
06958	Manganese	7439-96-5	464		0.0358	0.497		1
10145	Phosphorus	7723-14-0	633		0.348	9.93		1
01662	Potassium	7440-09-7	5,290		11.2	49.7		1
01667	Sodium	7440-23-5	131		5.91	99.3		1
07968	Strontium	7440-24-6	37.8		0.0248	0.497		1
06969	Tin	7440-31-5	3.24	J	0.318	9.93		1
06970	Titanium	7440-32-6	1,560		0.0705	0.993		1
10146	Zirconium	7440-67-7	2.33	J	0.457	4.97		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.339		0.0728	0.197		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.43		0.0787	0.393		2
06126	Barium	7440-39-3	193		0.521	1.97		10
06127	Beryllium	7440-41-7	1.00		0.0157	0.0984		2
06128	Cadmium	7440-43-9	1.23		0.0433	0.0984		2
06131	Chromium	7440-47-3	33.8		0.118	0.393		2
06132	Cobalt	7440-48-4	13.0		0.0197	0.0984		2
06133	Copper	7440-50-8	26.5		0.0787	0.393		2
06135	Lead	7439-92-1	27.3		0.0100	0.197		2
06138	Molybdenum	7439-98-7	1.57		0.0492	0.0984		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-122-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-122-SA7-SS-0.0-0.5

LLI Sample # SW 6412120
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:00

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4708 SDG#: DE247-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	26.9		0.0984	0.393		2
06141	Selenium	7782-49-2	0.546		0.0571	0.393		2
06142	Silver	7440-22-4	0.133		0.0140	0.0984		2
06145	Thallium	7440-28-0	0.570		0.0295	0.0984		2
06148	Vanadium	7440-62-2	64.7		0.0216	0.0984		2
06149	Zinc	7440-66-6	324		2.75	14.8		10
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0308	J	0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.4		0.81	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.27	J	0.20	0.98		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	J	0.18	0.49		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.90		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11265SLB026	09/29/2011 20:45	Matthew S Woods	1

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Sample Description: SL-122-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA7-SS-0.0-0.5

LLI Sample # SW 6412120
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:00

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4708 SDG#: DE247-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11267SLH026	09/30/2011 17:16	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLD026	10/07/2011 07:01	Brian K Graham	5
11630	NDMA Soil Microwave	SW-846 3546	1	11265SLB026	09/23/2011 10:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLD026	09/27/2011 18:00	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11267SLH026	09/28/2011 11:45	Olivia I Santiago	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112640025A	09/24/2011 15:04	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670007A	09/28/2011 18:13	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670048A	09/30/2011 00:12	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670033A	09/30/2011 23:06	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112730025A	10/03/2011 12:47	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112670033A	09/27/2011 11:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	112730025A	10/01/2011 10:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670048A	09/28/2011 02:00	David V Hershey Jr	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670007A	09/26/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112640025A	09/22/2011 11:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112640035A	09/23/2011 00:03	Elizabeth J Marin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112640035A	09/23/2011 21:29	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112640014A	09/22/2011 11:27	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112670016A	09/27/2011 04:22	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112660005A	09/27/2011 16:43	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112660005A	09/23/2011 15:00	Wanda F Oswald	1
10303	Terphenyls soil prep	SW-846 3550B	1	112670016A	09/26/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112640035A	09/22/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112640014A	09/22/2011 07:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112645708002	09/29/2011 14:26	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112645708002	09/30/2011 11:39	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112645708002	09/29/2011 14:26	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112645708002	09/30/2011 11:43	Joanne M Gates	2
01656	Lithium	SW-846 6010B	1	112645708002	09/29/2011 14:26	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112645708002	09/29/2011 14:26	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112645708002	09/30/2011 11:39	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112645708002	09/29/2011 14:26	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112645708002	09/29/2011 14:26	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112645708002	09/29/2011 14:26	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112645708002	09/30/2011 11:39	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112645708002	09/29/2011 14:26	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112645708002	09/29/2011 14:26	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112645708002	09/29/2011 14:26	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112641026001A	09/22/2011 11:59	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-122-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA7-SS-0.0-0.5

LLI Sample # SW 6412120
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:00

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4708 SDG#: DE247-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	112641026001A	09/22/2011 11:59	Choon Y Tian	2
06126	Barium	SW-846 6020	3	112641026001D	09/23/2011 14:43	Choon Y Tian	10
06127	Beryllium	SW-846 6020	1	112641026001A	09/22/2011 11:59	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112641026001A	09/22/2011 11:59	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112641026001A	09/22/2011 11:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112641026001A	09/22/2011 11:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112641026001A	09/22/2011 11:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112641026001A	09/22/2011 11:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112641026001C	09/22/2011 11:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112641026001A	09/22/2011 11:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112641026001B	09/22/2011 11:59	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112641026001A	09/22/2011 11:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112641026001A	09/22/2011 11:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112641026001A	09/22/2011 11:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	2	112641026001A	09/23/2011 14:43	Choon Y Tian	10
00159	Mercury	SW-846 7471A	1	112645711001	09/22/2011 09:16	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112645708002	09/21/2011 19:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112641026001	09/21/2011 19:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112645711001	09/21/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11270621202A	09/28/2011 22:04	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11270621202A	09/28/2011 22:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11266621201A	09/27/2011 19:18	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11273243201A	10/04/2011 15:58	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11273102201A	10/03/2011 08:58	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11270621202A	09/27/2011 07:25	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621201A	09/23/2011 05:35	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11273102201A	09/30/2011 15:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039403A	09/26/2011 10:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11273243201A	09/30/2011 09:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11272162401B	09/29/2011 21:46	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-130-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-SA7-SS-0.0-0.5

LLI Sample # SW 6412121
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:40

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4709 SDG#: DE247-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	840	U	840	2,500		5
04688	Benzidine	92-87-5	5,900	U	5,900	17,000		5
04688	Benzoic acid	65-85-0	840	U	840	2,500		5
04688	Benzyl alcohol	100-51-6	840	U	840	2,500		5
04688	4-Bromophenyl-phenylether	101-55-3	84	U	84	840		5
04688	Carbazole	86-74-8	84	U	84	840		5
04688	4-Chloro-3-methylphenol	59-50-7	170	U	170	840		5
04688	4-Chloroaniline	106-47-8	340	U	340	840		5
04688	bis(2-Chloroethoxy)methane	111-91-1	84	U	84	840		5
04688	bis(2-Chloroethyl)ether	111-44-4	84	U	84	840		5
04688	bis(2-Chloroisopropyl)ether	39638-32-9	84	U	84	840		5
04688	2-Chloronaphthalene	91-58-7	84	U	84	840		5
04688	2-Chlorophenol	95-57-8	84	U	84	840		5
04688	4-Chlorophenyl-phenylether	7005-72-3	170	U	170	840		5
04688	Dibenzofuran	132-64-9	84	U	84	840		5
04688	1,2-Dichlorobenzene	95-50-1	84	U	84	840		5
04688	1,3-Dichlorobenzene	541-73-1	84	U	84	840		5
04688	1,4-Dichlorobenzene	106-46-7	84	U	84	840		5
04688	3,3'-Dichlorobenzidine	91-94-1	500	U	500	1,700		5
04688	2,4-Dichlorophenol	120-83-2	84	U	84	840		5
04688	2,4-Dimethylphenol	105-67-9	170	U	170	840		5
04688	3,5-Dimethylphenol	108-68-9	170	U	170	840		5
04688	4,6-Dinitro-2-methylphenol	534-52-1	840	U	840	2,500		5
04688	2,4-Dinitrophenol	51-28-5	1,700	U	1,700	5,000		5
04688	2,4-Dinitrotoluene	121-14-2	170	U	170	840		5
04688	2,6-Dinitrotoluene	606-20-2	84	U	84	840		5
04688	1,2-Diphenylhydrazine	122-66-7	84	U	84	840		5
04688	bis(2-Ethylhexyl)phthalate	117-81-7	120	J	84	1,700		5
04688	Hexachlorobenzene	118-74-1	84	U	84	840		5
04688	Hexachlorobutadiene	87-68-3	340	U	340	840		5
04688	Hexachlorocyclopentadiene	77-47-4	840	U	840	2,500		5
04688	Hexachloroethane	67-72-1	84	U	84	840		5
04688	Isophorone	78-59-1	84	U	84	840		5
04688	2-Methylphenol	95-48-7	170	U	170	840		5
04688	4-Methylphenol	106-44-5	170	U	170	840		5
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	84	U	84	840		5
04688	3-Nitroaniline	99-09-2	170	U	170	840		5
04688	4-Nitroaniline	100-01-6	340	U	340	840		5
04688	Nitrobenzene	98-95-3	84	U	84	840		5
04688	2-Nitrophenol	88-75-5	84	U	84	840		5
04688	4-Nitrophenol	100-02-7	840	U	840	2,500		5
04688	N-Nitroso-di-n-propylamine	621-64-7	84	U	84	840		5
04688	N-Nitrosodiphenylamine	86-30-6	84	U	84	840		5
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	840	U	840	2,500		5

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Sample Description: SL-130-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-SA7-SS-0.0-0.5

LLI Sample # SW 6412121
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:40

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4709 SDG#: DE247-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	84	U	84	840		5
04688	Tetralin	119-64-2	840	U	840	840		5
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	84	U	84	840		5
04688	2,4,5-Trichlorophenol	95-95-4	170	U	170	840		5
04688	2,4,6-Trichlorophenol	88-06-2	170	U	170	840		5
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.4		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.4		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.4		5
10138	Benzo(a)anthracene	56-55-3	3.6	J	3.4	8.4		5
10138	Benzo(a)pyrene	50-32-8	6.0	J	3.4	8.4		5
10138	Benzo(b)fluoranthene	205-99-2	15		3.4	8.4		5
10138	Benzo(g,h,i)perylene	191-24-2	4.8	J	3.4	8.4		5
10138	Benzo(k)fluoranthene	207-08-9	3.5	J	3.4	8.4		5
10138	Butylbenzylphthalate	85-68-7	30	U	30	91		5
10138	Di-n-butylphthalate	84-74-2	62	J	30	91		5
10138	Chrysene	218-01-9	8.7		1.7	8.4		5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.4		5
10138	Diethylphthalate	84-66-2	30	U	30	91		5
10138	Dimethylphthalate	131-11-3	30	U	30	91		5
10138	Fluoranthene	206-44-0	15		3.4	8.4		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.4		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.4	U	3.4	8.4		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.4		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.4		5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4		5
10138	Di-n-octylphthalate	117-84-0	30	U	30	91		5
10138	Phenanthrene	85-01-8	6.4	J	3.4	8.4		5
10138	Pyrene	129-00-0	11		3.4	8.4		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	5.0	U	5.0	5.0		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.17	U	0.17	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does							

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Sample Description: **SL-130-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-130-SA7-SS-0.0-0.5

LLI Sample # SW 6412121
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:40

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4709 SDG#: DE247-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	8.1	U	8.1	34		10
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.65		0.067	0.34		1
01363	p,p-DDT	50-29-3	1.1	J	0.67	3.4		10
01363	Delta BHC	319-86-8	0.051	J	0.036	0.17		1
01363	Dieldrin	60-57-1	0.78	U	0.78	0.78		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.68	U	0.68	0.68		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.15	U	0.15	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.36	U	0.36	0.36		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.57		0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.20	U	0.20	0.34		1
01363	Toxaphene	8001-35-2	28	U	28	28		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	27		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	9.4		0.33	1.7		1
10225	PCB-1260	11096-82-5	6.7		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	100	U	100	500		1

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Sample Description: SL-130-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-SA7-SS-0.0-0.5

LLI Sample # SW 6412121
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:40

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4709 SDG#: DE247-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.0	U	4.0	12		10
10199	EFH (C15-C20)	n.a.	4.0	U	4.0	12		10
10199	EFH (C21-C30)	n.a.	61		4.0	12		10
10199	EFH (C30 - C40)	n.a.	270		4.0	12		10
10199	EFH (C8-C11)	n.a.	4.0	U	4.0	12		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,000		5.98	19.8		1
07914	Boron	7440-42-8	0.356	U	0.356	4.94		1
01650	Calcium	7440-70-2	3,410		2.47	19.8		1
01654	Iron	7439-89-6	18,600		2.58	19.8		1
01656	Lithium	7439-93-2	24.6		0.61	2.0		1
01657	Magnesium	7439-95-4	4,210		0.435	9.88		1
06958	Manganese	7439-96-5	274		0.0356	0.494		1
10145	Phosphorus	7723-14-0	515		0.346	9.88		1
01662	Potassium	7440-09-7	3,800		11.2	49.4		1
01667	Sodium	7440-23-5	62.9	J	5.88	98.8		1
07968	Strontium	7440-24-6	14.3		0.0247	0.494		1
06969	Tin	7440-31-5	2.85	J	0.316	9.88		1
06970	Titanium	7440-32-6	1,100		0.0702	0.988		1
10146	Zirconium	7440-67-7	1.89	J	0.455	4.94		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.207		0.0739	0.200		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.84		0.0799	0.399		2
06126	Barium	7440-39-3	98.4		0.106	0.399		2
06127	Beryllium	7440-41-7	0.553		0.0160	0.0998		2
06128	Cadmium	7440-43-9	0.567		0.0439	0.0998		2
06131	Chromium	7440-47-3	21.8		0.120	0.399		2
06132	Cobalt	7440-48-4	6.18		0.0200	0.0998		2
06133	Copper	7440-50-8	13.6		0.0799	0.399		2

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Sample Description: SL-130-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-130-SA7-SS-0.0-0.5

LLI Sample # SW 6412121
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Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E4709 SDG#: DE247-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	23.8		0.0102	0.200		2
06138	Molybdenum	7439-98-7	0.562		0.0499	0.0998		2
06139	Nickel	7440-02-0	13.2		0.0998	0.399		2
06141	Selenium	7782-49-2	0.0857	J	0.0579	0.399		2
06142	Silver	7440-22-4	0.0825	J	0.0142	0.0998		2
06145	Thallium	7440-28-0	0.265		0.0299	0.0998		2
06148	Vanadium	7440-62-2	37.2		0.0220	0.0998		2
06149	Zinc	7440-66-6	159		0.559	2.99		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0176	J	0.0070	0.0997		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.45	J	0.20	0.99		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.49		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.21		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.82		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Sample Description: **SL-130-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-130-SA7-SS-0.0-0.5

LLI Sample # SW 6412121
LLI Group # 1267306
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E4709 SDG#: DE247-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11267SLH026	09/30/2011 17:41	Linda M Hartenstine	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLD026	10/07/2011 07:34	Brian K Graham	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLD026	09/27/2011 18:00	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11267SLH026	09/28/2011 11:45	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670048A	09/30/2011 00:39	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670033A	09/30/2011 23:36	Melissa McDermott	10
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670033A	10/03/2011 03:09	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112730025A	10/03/2011 13:05	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112670033A	09/27/2011 11:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	112730025A	10/01/2011 10:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670048A	09/28/2011 02:00	David V Hershey Jr	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112640035A	09/23/2011 00:17	Elizabeth J Marin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112640035A	09/23/2011 21:44	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112640014A	09/22/2011 11:39	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112670016A	09/27/2011 05:06	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112660005A	09/27/2011 17:07	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112660005A	09/23/2011 15:00	Wanda F Oswald	1
10303	Terphenyls soil prep	SW-846 3550B	1	112670016A	09/26/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112640035A	09/22/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112640014A	09/22/2011 07:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112645708002	09/29/2011 14:30	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112645708002	09/30/2011 11:47	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112645708002	09/29/2011 14:30	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112645708002	09/29/2011 14:30	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112645708002	09/29/2011 14:30	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112645708002	09/29/2011 14:30	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112645708002	09/30/2011 11:47	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112645708002	09/29/2011 14:30	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112645708002	09/29/2011 14:30	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112645708002	09/29/2011 14:30	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112645708002	09/30/2011 11:47	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112645708002	09/29/2011 14:30	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112645708002	09/29/2011 14:30	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112645708002	09/29/2011 14:30	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112641026001A	09/22/2011 12:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112641026001A	09/22/2011 12:02	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112641026001D	09/22/2011 12:02	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112641026001A	09/22/2011 12:02	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112641026001A	09/22/2011 12:02	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112641026001A	09/22/2011 12:02	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-130-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-130-SA7-SS-0.0-0.5

LLI Sample # SW 6412121
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:40

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4709 SDG#: DE247-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	112641026001A	09/22/2011 12:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112641026001A	09/22/2011 12:02	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112641026001A	09/22/2011 12:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112641026001C	09/22/2011 12:02	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112641026001A	09/22/2011 12:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112641026001B	09/22/2011 12:02	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112641026001A	09/22/2011 12:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112641026001A	09/22/2011 12:02	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112641026001A	09/22/2011 12:02	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112641026001A	09/22/2011 12:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112645711001	09/22/2011 09:17	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112645708002	09/21/2011 19:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112641026001	09/21/2011 19:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112645711001	09/21/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11270621202A	09/28/2011 22:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11266621201A	09/27/2011 19:41	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11273243201A	10/04/2011 16:05	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11273102201A	10/03/2011 08:59	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11270621202A	09/27/2011 07:25	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621201A	09/23/2011 05:35	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11273102201A	09/30/2011 15:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039403A	09/26/2011 10:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11273243201A	09/30/2011 09:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11270162401A	09/27/2011 20:58	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-133-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA7-SS-0.0-0.5

LLI Sample # SW 6412122
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:35

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4710 SDG#: DE247-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	172	U	172	344		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	870	U	870	2,600		5
04688	Anthracene	120-12-7	140	J	87	870		5
04688	Benzidine	92-87-5	6,100	U	6,100	17,000		5
04688	Benzo(a)anthracene	56-55-3	330	J	87	870		5
04688	Benzo(a)pyrene	50-32-8	300	J	87	870		5
04688	Benzo(b)fluoranthene	205-99-2	530	J	87	870		5
04688	Benzo(g,h,i)perylene	191-24-2	230	J	87	870		5
04688	Benzo(k)fluoranthene	207-08-9	220	J	87	870		5
04688	Benzoic acid	65-85-0	870	U	870	2,600		5
04688	Benzyl alcohol	100-51-6	870	U	870	2,600		5
04688	4-Bromophenyl-phenylether	101-55-3	87	U	87	870		5
04688	Butylbenzylphthalate	85-68-7	120	J	87	870		5
04688	Carbazole	86-74-8	150	J	87	870		5
04688	4-Chloro-3-methylphenol	59-50-7	170	U	170	870		5
04688	4-Chloroaniline	106-47-8	350	U	350	870		5
04688	bis(2-Chloroethoxy)methane	111-91-1	87	U	87	870		5
04688	bis(2-Chloroethyl)ether	111-44-4	87	U	87	870		5
04688	bis(2-Chloroisopropyl)ether	39638-32-9	87	U	87	870		5
04688	2-Chloronaphthalene	91-58-7	87	U	87	870		5
04688	2-Chlorophenol	95-57-8	87	U	87	870		5
04688	4-Chlorophenyl-phenylether	7005-72-3	170	U	170	870		5
04688	Chrysene	218-01-9	790	J	87	870		5
04688	Dibenzofuran	132-64-9	87	U	87	870		5
04688	1,2-Dichlorobenzene	95-50-1	87	U	87	870		5
04688	1,3-Dichlorobenzene	541-73-1	87	U	87	870		5
04688	1,4-Dichlorobenzene	106-46-7	87	U	87	870		5
04688	3,3'-Dichlorobenzidine	91-94-1	520	U	520	1,700		5
04688	2,4-Dichlorophenol	120-83-2	87	U	87	870		5
04688	2,4-Dimethylphenol	105-67-9	170	U	170	870		5
04688	3,5-Dimethylphenol	108-68-9	170	U	170	870		5
04688	4,6-Dinitro-2-methylphenol	534-52-1	870	U	870	2,600		5
04688	2,4-Dinitrophenol	51-28-5	1,700	U	1,700	5,200		5
04688	2,4-Dinitrotoluene	121-14-2	170	U	170	870		5
04688	2,6-Dinitrotoluene	606-20-2	87	U	87	870		5
04688	1,2-Diphenylhydrazine	122-66-7	87	U	87	870		5
04688	bis(2-Ethylhexyl)phthalate	117-81-7	470	J	87	1,700		5
04688	Fluoranthene	206-44-0	3,600		87	870		5
04688	Hexachlorobenzene	118-74-1	87	U	87	870		5
04688	Hexachlorobutadiene	87-68-3	350	U	350	870		5
04688	Hexachlorocyclopentadiene	77-47-4	870	U	870	2,600		5
04688	Hexachloroethane	67-72-1	87	U	87	870		5
04688	Indeno(1,2,3-cd)pyrene	193-39-5	220	J	87	870		5
04688	Isophorone	78-59-1	87	U	87	870		5
04688	2-Methylphenol	95-48-7	170	U	170	870		5
04688	4-Methylphenol	106-44-5	170	U	170	870		5

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Sample Description: **SL-133-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA7-SS-0.0-0.5

LLI Sample # SW 6412122
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:35

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4710 SDG#: DE247-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	87	U	87	870		5
04688	3-Nitroaniline	99-09-2	170	U	170	870		5
04688	4-Nitroaniline	100-01-6	350	U	350	870		5
04688	Nitrobenzene	98-95-3	87	U	87	870		5
04688	2-Nitrophenol	88-75-5	87	U	87	870		5
04688	4-Nitrophenol	100-02-7	870	U	870	2,600		5
04688	N-Nitroso-di-n-propylamine	621-64-7	87	U	87	870		5
04688	N-Nitrosodiphenylamine	86-30-6	87	U	87	870		5
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	870	U	870	2,600		5
04688	Phenanthrene	85-01-8	2,800		87	870		5
04688	Phenol	108-95-2	87	U	87	870		5
04688	Pyrene	129-00-0	2,400		87	870		5
04688	Tetralin	119-64-2	870	U	870	870		5
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	87	U	87	870		5
04688	2,4,5-Trichlorophenol	95-95-4	170	U	170	870		5
04688	2,4,6-Trichlorophenol	88-06-2	170	U	170	870		5
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.5	U	3.5	8.7		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.7		5
10138	Di-n-butylphthalate	84-74-2	31	U	31	94		5
10138	Dibenz(a,h)anthracene	53-70-3	3.5	U	3.5	8.7		5
10138	Diethylphthalate	84-66-2	31	U	31	94		5
10138	Dimethylphthalate	131-11-3	31	U	31	94		5
10138	Fluorene	86-73-7	3.5	U	3.5	8.7		5
10138	1-Methylnaphthalene	90-12-0	3.5	U	3.5	8.7		5
10138	2-Methylnaphthalene	91-57-6	3.5	U	3.5	8.7		5
10138	Naphthalene	91-20-3	3.5	U	3.5	8.7		5
10138	N-Nitrosodimethylamine	62-75-9	3.5	U	3.5	8.7		5
10138	Di-n-octylphthalate	117-84-0	31	U	31	94		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	63	U	63	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	84	U	84	250	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-133-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA7-SS-0.0-0.5

LLI Sample # SW 6412122
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:35

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4710 SDG#: DE247-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	84	U	84	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	840	U	840	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	84	U	84	130	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	130	10000000	1
10132	4-Nitrotoluene	99-99-0	84	U	84	130	10000000	1
10132	PETN	78-11-5	840	U	840	2,500	10000000	1
10132	RDX	121-82-4	52	U	52	130	10000000	1
10132	Tetryl	479-45-8	64	U	64	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4		1
10401	2,4-DB	94-82-6	12	U	12	12		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3		1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	1.4	J	0.84	1.8		1
10401	MCPA	94-74-6	1,400	U	1,400	1,400		1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260		1
10401	2,4,5-T	93-76-5	0.41	U	0.41	0.41		1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised due to interference from the sample matrix.

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	870	J	630	1,600		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-133-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA7-SS-0.0-0.5

LLI Sample # SW 6412122
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:35

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4710 SDG#: DE247-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17		1
01363	Alpha BHC	319-84-6	0.091	U	0.091	0.17		1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.077	U	0.077	0.17		1
01363	Chlordane	57-74-9	4.6		0.84	3.6		1
01363	p,p-DDD	72-54-8	0.65	U	0.65	0.65		1
01363	p,p-DDE	72-55-9	0.38	U	0.38	0.38		1
01363	p,p-DDT	50-29-3	0.99	U	0.99	0.99		1
01363	Delta BHC	319-86-8	0.043	J	0.038	0.17		1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.36		1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17		1
01363	Endosulfan II	33213-65-9	0.088	U	0.088	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.36		1
01363	Endrin	72-20-8	0.13	U	0.13	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.17	U	0.17	0.36		1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.36		1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.10	U	0.10	0.17		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7		1
01363	Mirex	2385-85-5	0.65	U	0.65	0.65		1
01363	Toxaphene	8001-35-2	13	U	13	13		1

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5		1
10225	Aroclor 5460	11126-42-4	3.3	J	1.0	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	1.8	J	0.35	1.8		1
10225	PCB-1254	11097-69-1	5.6		0.35	1.8		1
10225	PCB-1260	11096-82-5	5.1		0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	340	J	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1

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Sample Description: SL-133-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-133-SA7-SS-0.0-0.5

LLI Sample # SW 6412122
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:35

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4710 SDG#: DE247-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	8.4	U	8.4	25		20
10199	EFH (C15-C20)	n.a.	8.4	U	8.4	25		20
10199	EFH (C21-C30)	n.a.	120		8.4	25		20
10199	EFH (C30 - C40)	n.a.	490		8.4	25		20
10199	EFH (C8-C11)	n.a.	8.4	U	8.4	25		20
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,100		6.34	21.0		1
07914	Boron	7440-42-8	0.377	U	0.377	5.24		1
01650	Calcium	7440-70-2	3,190		2.62	21.0		1
01654	Iron	7439-89-6	15,000		2.74	21.0		1
01656	Lithium	7439-93-2	16.8		0.65	2.1		1
01657	Magnesium	7439-95-4	3,450		0.461	10.5		1
06958	Manganese	7439-96-5	227		0.0377	0.524		1
10145	Phosphorus	7723-14-0	429		0.367	10.5		1
01662	Potassium	7440-09-7	2,640		11.8	52.4		1
01667	Sodium	7440-23-5	99.4	J	6.24	105		1
07968	Strontium	7440-24-6	15.4		0.0262	0.524		1
06969	Tin	7440-31-5	2.66	J	0.335	10.5		1
06970	Titanium	7440-32-6	897		0.0744	1.05		1
10146	Zirconium	7440-67-7	2.20	J	0.482	5.24		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.130	J	0.0760	0.206		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.72		0.0822	0.411		2
06126	Barium	7440-39-3	99.5		0.109	0.411		2
06127	Beryllium	7440-41-7	0.471		0.0164	0.103		2
06128	Cadmium	7440-43-9	0.377		0.0452	0.103		2
06131	Chromium	7440-47-3	17.3		0.123	0.411		2
06132	Cobalt	7440-48-4	5.75		0.0206	0.103		2
06133	Copper	7440-50-8	10.4		0.0822	0.411		2
06135	Lead	7439-92-1	11.3		0.0105	0.206		2
06138	Molybdenum	7439-98-7	0.543		0.0514	0.103		2

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Sample Description: **SL-133-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA7-SS-0.0-0.5

LLI Sample # SW 6412122
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:35

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4710 SDG#: DE247-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	12.0		0.103	0.411		2
06141	Selenium	7782-49-2	0.257	J	0.0596	0.411		2
06142	Silver	7440-22-4	0.0379	J	0.0146	0.103		2
06145	Thallium	7440-28-0	0.259		0.0308	0.103		2
06148	Vanadium	7440-62-2	31.5		0.0226	0.103		2
06149	Zinc	7440-66-6	194		1.44	7.71		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0069	U	0.0069	0.0983		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.3		0.85	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.85		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.6		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11265SLB026	09/29/2011 21:04	Matthew S Woods	10

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Sample Description: **SL-133-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA7-SS-0.0-0.5

LLI Sample # SW 6412122
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:35

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E4710 SDG#: DE247-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11267SLH026	09/30/2011 18:06	Linda M Hartenstine	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLD026	10/07/2011 08:06	Brian K Graham	5
11630	NDMA Soil Microwave	SW-846 3546	1	11265SLB026	09/23/2011 10:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLD026	09/27/2011 18:00	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11267SLH026	09/28/2011 11:45	Olivia I Santiago	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112640025A	09/24/2011 15:47	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670007A	09/28/2011 18:23	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670048A	09/30/2011 01:07	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670033A	10/01/2011 00:05	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670023A	09/28/2011 16:02	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112670033A	09/27/2011 11:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670023A	09/27/2011 10:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670048A	09/28/2011 02:00	David V Hershey Jr	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670007A	09/26/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112640025A	09/22/2011 11:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112640035A	09/23/2011 00:32	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112640014A	09/22/2011 11:52	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112670016A	09/27/2011 05:50	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112660005A	09/27/2011 19:30	Heather E Williams	20
11238	EFH Extraction - Soils	SW-846 3550B	1	112660005A	09/23/2011 15:00	Wanda F Oswald	1
10303	Terphenyls soil prep	SW-846 3550B	1	112670016A	09/26/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112640035A	09/22/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112640014A	09/22/2011 07:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112645708002	09/29/2011 14:34	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112645708002	09/30/2011 11:51	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112645708002	09/29/2011 14:34	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112645708002	09/29/2011 14:34	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112645708002	09/29/2011 14:34	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112645708002	09/29/2011 14:34	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112645708002	09/30/2011 11:51	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112645708002	09/29/2011 14:34	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112645708002	09/29/2011 14:34	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112645708002	09/29/2011 14:34	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112645708002	09/30/2011 11:51	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112645708002	09/29/2011 14:34	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112645708002	09/29/2011 14:34	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112645708002	09/29/2011 14:34	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112641026001A	09/22/2011 12:05	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112641026001A	09/22/2011 12:05	Choon Y Tian	2

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Sample Description: **SL-133-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA7-SS-0.0-0.5

LLI Sample # SW 6412122
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:35

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4710 SDG#: DE247-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112641026001D	09/22/2011 12:05	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112641026001A	09/22/2011 12:05	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112641026001A	09/22/2011 12:05	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112641026001A	09/22/2011 12:05	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112641026001A	09/22/2011 12:05	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112641026001A	09/22/2011 12:05	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112641026001A	09/22/2011 12:05	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112641026001C	09/22/2011 12:05	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112641026001A	09/22/2011 12:05	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112641026001B	09/22/2011 12:05	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112641026001A	09/22/2011 12:05	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112641026001A	09/22/2011 12:05	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112641026001A	09/22/2011 12:05	Choon Y Tian	2
06149	Zinc	SW-846 6020	2	112641026001A	09/23/2011 14:48	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	112645711001	09/22/2011 09:18	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112645708002	09/21/2011 19:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112641026001	09/21/2011 19:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112645711001	09/21/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11270621202A	09/28/2011 22:30	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11270621202A	09/28/2011 22:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11266621201A	09/27/2011 20:04	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11273243201A	10/04/2011 16:18	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11273102201A	10/03/2011 09:00	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11270621202A	09/27/2011 07:25	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621201A	09/23/2011 05:35	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11273102201A	09/30/2011 15:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039403B	09/26/2011 10:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11273243201A	09/30/2011 09:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11272162401B	09/29/2011 21:46	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP02-SA7-QC-091911 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA7-QC-091911

LLI Sample # SW 6412123
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4711 SDG#: DE247-11FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	U	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Sample Description: **DUP02-SA7-QC-091911 Soil**
SSFL Area IV Collocated Soil Sampling
DUP02-SA7-QC-091911

LLI Sample # SW 6412123
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4711 SDG#: DE247-11FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.4		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.4		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.4		5
10138	Benzo(a)anthracene	56-55-3	3.4	U	3.4	8.4		5
10138	Benzo(a)pyrene	50-32-8	3.4	U	3.4	8.4		5
10138	Benzo(b)fluoranthene	205-99-2	9.6		3.4	8.4		5
10138	Benzo(g,h,i)perylene	191-24-2	3.4	U	3.4	8.4		5
10138	Benzo(k)fluoranthene	207-08-9	3.4	U	3.4	8.4		5
10138	Chrysene	218-01-9	4.7	J	1.7	8.4		5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.4		5
10138	Fluoranthene	206-44-0	8.5		3.4	8.4		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.4		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.4	U	3.4	8.4		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.4		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.4		5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4		5
10138	Phenanthrene	85-01-8	4.4	J	3.4	8.4		5
10138	Pyrene	129-00-0	6.1	J	3.4	8.4		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	5.3		0.63	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.87		0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP02-SA7-QC-091911 Soil**
SSFL Area IV Collocated Soil Sampling
DUP02-SA7-QC-091911

LLI Sample # SW 6412123
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4711 SDG#: DE247-11FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
statistical limits of 0-36%, the data is reported.								
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.051	J	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.18		0.034	0.17		1
01363	Chlordane	57-74-9	2.1	J	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.42	U	0.42	0.42		1
01363	p,p-DDE	72-55-9	0.21	U	0.21	0.34		1
01363	p,p-DDT	50-29-3	0.70	U	0.70	0.70		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.18	U	0.18	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.14	U	0.14	0.34		1
01363	Endrin	72-20-8	0.15	U	0.15	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.19	U	0.19	0.34		1
01363	Endrin Ketone	53494-70-5	0.18	U	0.18	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	4.9	U	4.9	6.7		1
Reporting limits were raised due to interference from the sample matrix.								
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	4.4		0.33	1.7		1
10225	PCB-1260	11096-82-5	1.7		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,600		6.04	20.0		1
07914	Boron	7440-42-8	0.360	U	0.360	5.00		1
01650	Calcium	7440-70-2	3,150		2.50	20.0		1
01654	Iron	7439-89-6	18,600		2.61	20.0		1
01656	Lithium	7439-93-2	24.9		0.62	2.0		1
01657	Magnesium	7439-95-4	4,330		0.440	9.99		1
06958	Manganese	7439-96-5	272		0.0360	0.500		1
10145	Phosphorus	7723-14-0	435		0.350	9.99		1
01662	Potassium	7440-09-7	3,390		11.3	50.0		1
01667	Sodium	7440-23-5	70.0	J	5.94	99.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP02-SA7-QC-091911 Soil**
SSFL Area IV Collocated Soil Sampling
DUP02-SA7-QC-091911

LLI Sample # SW 6412123
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4711 SDG#: DE247-11FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07968	Strontium	7440-24-6	16.5		0.0250	0.500		1
06969	Tin	7440-31-5	2.80	J	0.320	9.99		1
06970	Titanium	7440-32-6	1,120		0.0709	0.999		1
10146	Zirconium	7440-67-7	1.98	J	0.460	5.00		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.109	J	0.0739	0.200		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.36		0.0799	0.400		2
06126	Barium	7440-39-3	91.3		0.106	0.400		2
06127	Beryllium	7440-41-7	0.519		0.0160	0.0999		2
06128	Cadmium	7440-43-9	0.276		0.0440	0.0999		2
06131	Chromium	7440-47-3	16.9		0.120	0.400		2
06132	Cobalt	7440-48-4	6.00		0.0200	0.0999		2
06133	Copper	7440-50-8	9.07		0.0799	0.400		2
06135	Lead	7439-92-1	7.34		0.0102	0.200		2
06138	Molybdenum	7439-98-7	0.471		0.0500	0.0999		2
06139	Nickel	7440-02-0	11.3		0.0999	0.400		2
06141	Selenium	7782-49-2	0.141	J	0.0579	0.400		2
06142	Silver	7440-22-4	0.0304	J	0.0142	0.0999		2
06145	Thallium	7440-28-0	0.285		0.0300	0.0999		2
06148	Vanadium	7440-62-2	33.2		0.0220	0.0999		2
06149	Zinc	7440-66-6	252		1.40	7.49		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	U	0.0071	0.100		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.19	U	0.19	0.97		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.14		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.90		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: DUP02-SA7-QC-091911 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA7-QC-091911

LLI Sample # SW 6412123
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4711 SDG#: DE247-11FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11267SLH026	09/30/2011 18:31	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLD026	10/07/2011 08:39	Brian K Graham	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLD026	09/27/2011 18:00	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11267SLH026	09/28/2011 11:45	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670048A	09/30/2011 01:34	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670033A	10/01/2011 00:35	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670023A	09/28/2011 16:20	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112670033A	09/27/2011 11:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670023A	09/27/2011 10:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670048A	09/28/2011 02:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	112645708002	09/29/2011 14:38	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112645708002	09/30/2011 11:55	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112645708002	09/29/2011 14:38	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112645708002	09/29/2011 14:38	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112645708002	09/29/2011 14:38	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112645708002	09/29/2011 14:38	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112645708002	09/30/2011 11:55	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112645708002	09/29/2011 14:38	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112645708002	09/29/2011 14:38	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112645708002	09/29/2011 14:38	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112645708002	09/30/2011 11:55	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112645708002	09/29/2011 14:38	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112645708002	09/29/2011 14:38	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112645708002	09/29/2011 14:38	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112641026001A	09/22/2011 12:08	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112641026001A	09/22/2011 12:08	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112641026001D	09/22/2011 12:08	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112641026001A	09/22/2011 12:08	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112641026001A	09/22/2011 12:08	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112641026001A	09/22/2011 12:08	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112641026001A	09/22/2011 12:08	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112641026001A	09/22/2011 12:08	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112641026001A	09/22/2011 12:08	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP02-SA7-QC-091911 Soil**
SSFL Area IV Collocated Soil Sampling
DUP02-SA7-QC-091911

LLI Sample # SW 6412123
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4711 SDG#: DE247-11FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	112641026001C	09/22/2011 12:08	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112641026001A	09/22/2011 12:08	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112641026001B	09/22/2011 12:08	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112641026001A	09/22/2011 12:08	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112641026001A	09/22/2011 12:08	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112641026001A	09/22/2011 12:08	Choon Y Tian	2
06149	Zinc	SW-846 6020	2	112641026001A	09/23/2011 14:50	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	112645711001	09/22/2011 09:19	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112645708002	09/21/2011 19:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112641026001	09/21/2011 19:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112645711001	09/21/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11270621202B	09/28/2011 23:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11266621201B	09/27/2011 22:00	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11273243201A	10/04/2011 16:32	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11270621202B	09/27/2011 07:25	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621201B	09/23/2011 05:35	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039403B	09/26/2011 10:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11273243201A	09/30/2011 09:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11270162401A	09/27/2011 20:58	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-025-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA7-SB-4.0-5.0

LLI Sample # SW 6412124
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:48

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4712 SDG#: DE247-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	70	U	70	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	70	U	70	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-025-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA7-SB-4.0-5.0

LLI Sample # SW 6412124
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:48

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4712 SDG#: DE247-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	1.1	J	0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	1.0	J	0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.6	J	0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.84	J	0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	1.4	J	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	J	6.3	19		1
10138	Fluoranthene	206-44-0	2.8		0.70	1.7		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	1.4	J	0.70	1.7		1
10138	Pyrene	129-00-0	2.1		0.70	1.7		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-025-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA7-SB-4.0-5.0

LLI Sample # SW 6412124
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:48

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4712 SDG#: DE247-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,600		6.28	20.8		1
07914	Boron	7440-42-8	0.374	U	0.374	5.19		1
01650	Calcium	7440-70-2	2,400		2.59	20.8		1
01654	Iron	7439-89-6	21,600		2.71	20.8		1
01656	Lithium	7439-93-2	26.6		0.64	2.1		1
01657	Magnesium	7439-95-4	5,090		0.457	10.4		1
06958	Manganese	7439-96-5	279		0.0374	0.519		1
10145	Phosphorus	7723-14-0	277		0.363	10.4		1
01662	Potassium	7440-09-7	2,590		11.7	51.9		1
01667	Sodium	7440-23-5	78.1	J	6.18	104		1
07968	Strontium	7440-24-6	14.1		0.0259	0.519		1
06969	Tin	7440-31-5	2.73	J	0.332	10.4		1
06970	Titanium	7440-32-6	1,160		0.0737	1.04		1
10146	Zirconium	7440-67-7	2.08	J	0.477	5.19		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0961	J	0.0746	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.70		0.0806	0.403		2
06126	Barium	7440-39-3	93.6		0.107	0.403		2
06127	Beryllium	7440-41-7	0.720		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.0859	J	0.0443	0.101		2
06131	Chromium	7440-47-3	22.0		0.121	0.403		2
06132	Cobalt	7440-48-4	6.89		0.0202	0.101		2
06133	Copper	7440-50-8	9.03		0.0806	0.403		2
06135	Lead	7439-92-1	5.57		0.0103	0.202		2
06138	Molybdenum	7439-98-7	0.573		0.0504	0.101		2
06139	Nickel	7440-02-0	13.9		0.101	0.403		2
06141	Selenium	7782-49-2	0.121	J	0.0585	0.403		2
06142	Silver	7440-22-4	0.0323	J	0.0143	0.101		2
06145	Thallium	7440-28-0	0.319		0.0302	0.101		2
06148	Vanadium	7440-62-2	40.8		0.0222	0.101		2
06149	Zinc	7440-66-6	62.0		0.564	3.02		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0070	U	0.0070	0.0993		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.85	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26	J	0.20	0.98		1

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Sample Description: SL-025-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA7-SB-4.0-5.0

LLI Sample # SW 6412124
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:48

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4712 SDG#: DE247-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.64	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.6	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11267SLH026	09/30/2011 18:56	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLD026	10/07/2011 09:11	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLD026	09/27/2011 18:00	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11267SLH026	09/28/2011 11:45	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670023A	09/28/2011 17:54	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670023A	09/27/2011 10:00	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	112645708002	09/29/2011 14:42	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112645708002	09/30/2011 11:59	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112645708002	09/29/2011 14:42	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112645708002	09/29/2011 14:42	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112645708002	09/29/2011 14:42	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112645708002	09/29/2011 14:42	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112645708002	09/30/2011 11:59	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112645708002	09/29/2011 14:42	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112645708002	09/29/2011 14:42	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112645708002	09/29/2011 14:42	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112645708002	09/30/2011 11:59	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112645708002	09/29/2011 14:42	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112645708002	09/29/2011 14:42	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112645708002	09/29/2011 14:42	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112641026001A	09/22/2011 12:11	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112641026001A	09/22/2011 12:11	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112641026001D	09/22/2011 12:11	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112641026001A	09/22/2011 12:11	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112641026001A	09/22/2011 12:11	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-025-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA7-SB-4.0-5.0

LLI Sample # SW 6412124
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:48

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4712 SDG#: DE247-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112641026001A	09/22/2011 12:11	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112641026001A	09/22/2011 12:11	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112641026001A	09/22/2011 12:11	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112641026001A	09/22/2011 12:11	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112641026001C	09/22/2011 12:11	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112641026001A	09/22/2011 12:11	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112641026001B	09/22/2011 12:11	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112641026001A	09/22/2011 12:11	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112641026001A	09/22/2011 12:11	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112641026001A	09/22/2011 12:11	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112641026001A	09/22/2011 12:11	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112645711001	09/22/2011 09:20	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112645708002	09/21/2011 19:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112641026001	09/21/2011 19:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112645711001	09/21/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11270621202B	09/28/2011 22:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11266621201B	09/27/2011 20:27	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11273243201A	10/04/2011 16:52	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11270621202B	09/27/2011 07:25	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621201B	09/23/2011 05:35	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039403B	09/26/2011 10:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11273243201A	09/30/2011 09:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11270162401A	09/27/2011 20:58	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-025-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA7-SB-9.0-10.0

LLI Sample # SW 6412125
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:51

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4713 SDG#: DE247-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-025-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA7-SB-9.0-10.0

LLI Sample # SW 6412125
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:51

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4713 SDG#: DE247-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.3	U	6.3	19		1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.8		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.8		1
10138	Pyrene	129-00-0	0.70	U	0.70	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

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Analysis Report

Sample Description: SL-025-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA7-SB-9.0-10.0

LLI Sample # SW 6412125
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:51

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4713 SDG#: DE247-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,600		6.40	21.1		1
07914	Boron	7440-42-8	0.381	U	0.381	5.29		1
01650	Calcium	7440-70-2	2,990		2.64	21.1		1
01654	Iron	7439-89-6	21,200		2.76	21.1		1
01656	Lithium	7439-93-2	26.0		0.66	2.1		1
01657	Magnesium	7439-95-4	4,840		0.465	10.6		1
06958	Manganese	7439-96-5	282		0.0381	0.529		1
10145	Phosphorus	7723-14-0	275		0.370	10.6		1
01662	Potassium	7440-09-7	2,340		11.9	52.9		1
01667	Sodium	7440-23-5	84.1	J	6.29	106		1
07968	Strontium	7440-24-6	13.2		0.0264	0.529		1
06969	Tin	7440-31-5	3.08	J	0.338	10.6		1
06970	Titanium	7440-32-6	1,250		0.0751	1.06		1
10146	Zirconium	7440-67-7	2.28	J	0.486	5.29		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.181	J	0.0782	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.75		0.0846	0.423		2
06126	Barium	7440-39-3	108		0.112	0.423		2
06127	Beryllium	7440-41-7	0.836		0.0169	0.106		2
06128	Cadmium	7440-43-9	0.0737	J	0.0465	0.106		2
06131	Chromium	7440-47-3	25.7		0.127	0.423		2
06132	Cobalt	7440-48-4	8.82		0.0211	0.106		2
06133	Copper	7440-50-8	11.4		0.0846	0.423		2
06135	Lead	7439-92-1	6.89		0.0108	0.211		2
06138	Molybdenum	7439-98-7	0.822		0.0529	0.106		2
06139	Nickel	7440-02-0	15.5		0.106	0.423		2
06141	Selenium	7782-49-2	0.101	J	0.0613	0.423		2
06142	Silver	7440-22-4	0.0372	J	0.0150	0.106		2
06145	Thallium	7440-28-0	0.373		0.0317	0.106		2
06148	Vanadium	7440-62-2	52.6		0.0233	0.106		2
06149	Zinc	7440-66-6	74.1		0.592	3.17		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0072	U	0.0072	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.83	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.60	J	0.21	1.0		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-025-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA7-SB-9.0-10.0

LLI Sample # SW 6412125
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:51

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4713 SDG#: DE247-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.63	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.4	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11267SLH026	09/30/2011 19:21	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLD026	10/07/2011 09:44	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLD026	09/27/2011 18:00	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11267SLH026	09/28/2011 11:45	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670023A	09/28/2011 18:13	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670023A	09/27/2011 10:00	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	112645708002	09/29/2011 14:54	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112645708002	09/30/2011 12:10	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112645708002	09/29/2011 14:54	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112645708002	09/29/2011 14:54	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112645708002	09/29/2011 14:54	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112645708002	09/29/2011 14:54	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112645708002	09/30/2011 12:10	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112645708002	09/29/2011 14:54	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112645708002	09/29/2011 14:54	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112645708002	09/29/2011 14:54	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112645708002	09/30/2011 12:10	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112645708002	09/29/2011 14:54	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112645708002	09/29/2011 14:54	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112645708002	09/29/2011 14:54	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112641026001A	09/22/2011 12:14	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112641026001A	09/22/2011 12:14	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112641026001D	09/22/2011 12:14	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112641026001A	09/22/2011 12:14	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112641026001A	09/22/2011 12:14	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **SL-025-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA7-SB-9.0-10.0

LLI Sample # SW 6412125
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:51

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4713 SDG#: DE247-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112641026001A	09/22/2011 12:14	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112641026001A	09/22/2011 12:14	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112641026001A	09/22/2011 12:14	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112641026001A	09/22/2011 12:14	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112641026001C	09/22/2011 12:14	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112641026001A	09/22/2011 12:14	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112641026001B	09/22/2011 12:14	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112641026001A	09/22/2011 12:14	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112641026001A	09/22/2011 12:14	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112641026001A	09/22/2011 12:14	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112641026001A	09/22/2011 12:14	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112645711001	09/22/2011 09:21	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112645708002	09/21/2011 19:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112641026001	09/21/2011 19:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112645711001	09/21/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11270621202B	09/28/2011 23:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11266621201B	09/27/2011 22:22	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11273243201A	10/04/2011 16:58	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11270621202B	09/27/2011 07:25	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621201B	09/23/2011 05:35	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039403B	09/26/2011 10:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11273243201A	09/30/2011 09:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11270162401A	09/27/2011 20:58	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: SL-032-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA7-SB-4.0-5.0

LLI Sample # SW 6412126
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 08:47

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4714 SDG#: DE247-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.6	U	17.6	35.1		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	2-butoxy-Ethanol	111-76-2	1,800	U	1,800	1,800		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Sample Description: **SL-032-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA7-SB-4.0-5.0

LLI Sample # SW 6412126
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 08:47

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4714 SDG#: DE247-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	2-phenoxy-Ethanol	122-99-6	1,800	U	1,800	1,800		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	J	0.2	1		23.06
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1

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Sample Description: **SL-032-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA7-SB-4.0-5.0

LLI Sample # SW 6412126
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 08:47

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4714 SDG#: DE247-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	640	U	640	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1

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Sample Description: **SL-032-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA7-SB-4.0-5.0

LLI Sample # SW 6412126
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 08:47

Submitted: 09/20/2011 09:10
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4714 SDG#: DE247-14

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs		**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262		37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268		11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous		**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol		64-17-5	110	U	110	540		1
10501	Isopropanol		67-63-0	110	U	110	540		1
10501	Methanol		67-56-1	110	U	110	540		1
GC Miscellaneous		**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol		111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol		107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol		57-55-6	5.4	U	5.4	11		1
GC Petroleum Hydrocarbons		**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl		92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl		84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl		92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons		**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)		n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)		n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)		n.a.	0.43	U	0.43	1.3		1
10199	EFH (C30 - C40)		n.a.	0.43	U	0.43	1.3		1
10199	EFH (C8-C11)		n.a.	0.43	U	0.43	1.3		1
Metals		**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum		7429-90-5	18,100		6.29	20.8		1
07914	Boron		7440-42-8	0.374	U	0.374	5.20		1
01650	Calcium		7440-70-2	2,600		2.60	20.8		1
01654	Iron		7439-89-6	21,100		2.71	20.8		1
01656	Lithium		7439-93-2	27.0		0.64	2.1		1
01657	Magnesium		7439-95-4	5,070		0.457	10.4		1
06958	Manganese		7439-96-5	338		0.0374	0.520		1
10145	Phosphorus		7723-14-0	283		0.364	10.4		1
01662	Potassium		7440-09-7	2,560		11.7	52.0		1
01667	Sodium		7440-23-5	69.0	J	6.18	104		1
07968	Strontium		7440-24-6	15.7		0.0260	0.520		1
06969	Tin		7440-31-5	2.81	J	0.333	10.4		1
06970	Titanium		7440-32-6	1,200		0.0738	1.04		1
10146	Zirconium		7440-67-7	2.47	J	0.478	5.20		1
		SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony		7440-36-0	0.107	J	0.0777	0.210		2

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Sample Description: **SL-032-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA7-SB-4.0-5.0

LLI Sample # SW 6412126
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 08:47

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4714 SDG#: DE247-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.04		0.0840	0.420		2
06126	Barium	7440-39-3	123		0.111	0.420		2
06127	Beryllium	7440-41-7	0.806		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.124		0.0462	0.105		2
06131	Chromium	7440-47-3	22.4		0.126	0.420		2
06132	Cobalt	7440-48-4	7.85		0.0210	0.105		2
06133	Copper	7440-50-8	9.61		0.0840	0.420		2
06135	Lead	7439-92-1	5.66		0.0107	0.210		2
06138	Molybdenum	7439-98-7	0.779		0.0525	0.105		2
06139	Nickel	7440-02-0	16.3		0.105	0.420		2
06141	Selenium	7782-49-2	0.0708	J	0.0609	0.420		2
06142	Silver	7440-22-4	0.0490	J	0.0149	0.105		2
06145	Thallium	7440-28-0	0.318		0.0315	0.105		2
06148	Vanadium	7440-62-2	44.7		0.0231	0.105		2
06149	Zinc	7440-66-6	62.5		0.588	3.15		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0075	U	0.0075	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.6		0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.85	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	J	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.78		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: **SL-032-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA7-SB-4.0-5.0

LLI Sample # SW 6412126
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 08:47

Submitted: 09/20/2011 09:10
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4714 SDG#: DE247-14

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-032-SA7-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11265SLB026	09/29/2011 21:23	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11267SLH026	09/30/2011 19:46	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLD026	10/07/2011 10:17	Brian K Graham	1
11630	NDMA Soil Microwave	SW-846 3546	1	11265SLB026	09/23/2011 10:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLD026	09/27/2011 18:00	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11267SLH026	09/28/2011 11:45	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11265A34A	09/22/2011 17:28	Marie D John	23.06
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201126325597	09/20/2011 21:45	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201126325597	09/20/2011 21:46	Lois E Hiltz	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112640025A	09/24/2011 16:29	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670007A	09/28/2011 18:42	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670023A	09/28/2011 18:32	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670023A	09/27/2011 10:00	Olivia Arosemena	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670007A	09/26/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112640025A	09/22/2011 11:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112640035A	09/23/2011 00:47	Elizabeth J Marin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112640035A	09/23/2011 22:14	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112640014A	09/22/2011 12:05	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112670016A	09/27/2011 00:41	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112660005A	09/27/2011 11:32	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112660005A	09/23/2011 15:00	Wanda F Oswald	1
10303	Terphenyls soil prep	SW-846 3550B	1	112670016A	09/26/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112640035A	09/22/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112640014A	09/22/2011 07:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112645708002	09/29/2011 14:58	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112645708002	09/30/2011 12:14	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112645708002	09/29/2011 14:58	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112645708002	09/29/2011 14:58	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112645708002	09/29/2011 14:58	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112645708002	09/29/2011 14:58	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112645708002	09/30/2011 12:14	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112645708002	09/29/2011 14:58	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112645708002	09/29/2011 14:58	Joanne M Gates	1

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Sample Description: **SL-032-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA7-SB-4.0-5.0

LLI Sample # SW 6412126
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 08:47

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4714 SDG#: DE247-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	112645708002	09/29/2011 14:58	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112645708002	09/30/2011 12:14	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112645708002	09/29/2011 14:58	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112645708002	09/29/2011 14:58	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112645708002	09/29/2011 14:58	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112641026001A	09/22/2011 12:23	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112641026001A	09/22/2011 12:23	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112641026001D	09/22/2011 12:23	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112641026001A	09/22/2011 12:23	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112641026001A	09/22/2011 12:23	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112641026001A	09/22/2011 12:23	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112641026001A	09/22/2011 12:23	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112641026001A	09/22/2011 12:23	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112641026001A	09/22/2011 12:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112641026001C	09/22/2011 12:23	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112641026001A	09/22/2011 12:23	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112641026001B	09/22/2011 12:23	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112641026001A	09/22/2011 12:23	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112641026001A	09/22/2011 12:23	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112641026001A	09/22/2011 12:23	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112641026001A	09/22/2011 12:23	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112645711001	09/22/2011 09:22	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112645708002	09/21/2011 19:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112641026001	09/21/2011 19:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112645711001	09/21/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11270621202B	09/29/2011 00:11	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11270621202B	09/29/2011 00:11	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11266621201B	09/27/2011 22:45	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11273243201A	10/04/2011 17:25	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11273102201A	10/03/2011 09:01	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11270621202B	09/27/2011 07:25	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621201B	09/23/2011 05:35	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11273102201A	09/30/2011 15:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039403B	09/26/2011 10:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11273243201A	09/30/2011 09:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11272162401B	09/29/2011 21:46	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-032-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA7-SB-9.0-10.0

LLI Sample # SW 6412127
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 08:53

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4715 SDG#: DE247-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.4	U	17.4	34.9		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	2-butoxy-Ethanol	111-76-2	1,800	U	1,800	1,800		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Sample Description: **SL-032-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA7-SB-9.0-10.0

LLI Sample # SW 6412127
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 08:53

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4715 SDG#: DE247-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	2-phenoxy-Ethanol	122-99-6	1,800	U	1,800	1,800		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		23.41
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1

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Sample Description: **SL-032-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA7-SB-9.0-10.0

LLI Sample # SW 6412127
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 08:53

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4715 SDG#: DE247-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	85	U	85	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	85	U	85	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	850	U	850	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	85	U	85	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	85	U	85	130	10000000	1
10132	PETN	78-11-5	850	U	850	2,600	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	640	U	640	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1

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Sample Description: **SL-032-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA7-SB-9.0-10.0

LLI Sample # SW 6412127
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 08:53

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E4715 SDG#: DE247-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,200		6.31	20.9		1
07914	Boron	7440-42-8	0.375	U	0.375	5.21		1
01650	Calcium	7440-70-2	4,060		2.61	20.9		1
01654	Iron	7439-89-6	20,200		2.72	20.9		1
01656	Lithium	7439-93-2	28.6		0.65	2.1		1
01657	Magnesium	7439-95-4	5,350		0.459	10.4		1
06958	Manganese	7439-96-5	303		0.0375	0.521		1
10145	Phosphorus	7723-14-0	332		0.365	10.4		1
01662	Potassium	7440-09-7	2,560		11.8	52.1		1
01667	Sodium	7440-23-5	72.2	J	6.21	104		1
07968	Strontium	7440-24-6	18.1		0.0261	0.521		1
06969	Tin	7440-31-5	2.75	J	0.334	10.4		1
06970	Titanium	7440-32-6	1,200		0.0741	1.04		1
10146	Zirconium	7440-67-7	2.19	J	0.480	5.21		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.105	J	0.0779	0.211		2

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Sample Description: **SL-032-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA7-SB-9.0-10.0

LLI Sample # SW 6412127
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 08:53

Submitted: 09/20/2011 09:10
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14420 Albemarle Point Place
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Chantilly VA 20151

E4715 SDG#: DE247-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.90		0.0843	0.421		2
06126	Barium	7440-39-3	108		0.112	0.421		2
06127	Beryllium	7440-41-7	0.667		0.0169	0.105		2
06128	Cadmium	7440-43-9	0.111		0.0463	0.105		2
06131	Chromium	7440-47-3	20.3		0.126	0.421		2
06132	Cobalt	7440-48-4	7.55		0.0211	0.105		2
06133	Copper	7440-50-8	9.24		0.0843	0.421		2
06135	Lead	7439-92-1	5.22		0.0107	0.211		2
06138	Molybdenum	7439-98-7	0.421		0.0527	0.105		2
06139	Nickel	7440-02-0	14.6		0.105	0.421		2
06141	Selenium	7782-49-2	0.0880	J	0.0611	0.421		2
06142	Silver	7440-22-4	0.0255	J	0.0150	0.105		2
06145	Thallium	7440-28-0	0.317		0.0316	0.105		2
06148	Vanadium	7440-62-2	39.3		0.0232	0.105		2
06149	Zinc	7440-66-6	83.8		0.590	3.16		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	U	0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.7		0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.85	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	31.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.29		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-032-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA7-SB-9.0-10.0

LLI Sample # SW 6412127
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 08:53

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4715 SDG#: DE247-15

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-032-SA7-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11265SLB026	09/29/2011 21:43	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11267SLH026	09/30/2011 20:11	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLD026	10/07/2011 10:50	Brian K Graham	1
11630	NDMA Soil Microwave	SW-846 3546	1	11265SLB026	09/23/2011 10:30	Olivia Arosemena	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLD026	09/27/2011 18:00	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11267SLH026	09/28/2011 11:45	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11265A34A	09/22/2011 18:05	Marie D John	23.41
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201126325597	09/20/2011 21:47	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201126325597	09/20/2011 21:48	Lois E Hiltz	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112640025A	09/24/2011 17:12	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670007A	09/28/2011 18:52	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670023A	09/28/2011 18:51	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670023A	09/27/2011 10:00	Olivia Arosemena	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670007A	09/26/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112640025A	09/22/2011 11:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112640035A	09/23/2011 01:02	Elizabeth J Marin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112640035A	09/23/2011 22:28	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112640014A	09/22/2011 12:18	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112670016A	09/27/2011 01:03	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112660005A	09/27/2011 11:56	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112660005A	09/23/2011 15:00	Wanda F Oswald	1
10303	Terphenyls soil prep	SW-846 3550B	1	112670016A	09/26/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112640035A	09/22/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112640014A	09/22/2011 07:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	112645708002	09/29/2011 15:02	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112645708002	09/30/2011 12:18	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112645708002	09/29/2011 15:02	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112645708002	09/29/2011 15:02	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112645708002	09/29/2011 15:02	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112645708002	09/29/2011 15:02	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112645708002	09/30/2011 12:18	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112645708002	09/29/2011 15:02	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112645708002	09/29/2011 15:02	Joanne M Gates	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-032-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA7-SB-9.0-10.0

LLI Sample # SW 6412127
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 08:53

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4715 SDG#: DE247-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	112645708002	09/29/2011 15:02	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112645708002	09/30/2011 12:18	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112645708002	09/29/2011 15:02	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112645708002	09/29/2011 15:02	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112645708002	09/29/2011 15:02	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112641026001A	09/22/2011 12:27	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112641026001A	09/22/2011 12:27	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112641026001D	09/22/2011 12:27	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112641026001A	09/22/2011 12:27	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112641026001A	09/22/2011 12:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112641026001A	09/22/2011 12:27	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112641026001A	09/22/2011 12:27	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112641026001A	09/22/2011 12:27	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112641026001A	09/22/2011 12:27	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112641026001C	09/22/2011 12:27	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112641026001A	09/22/2011 12:27	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112641026001B	09/22/2011 12:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112641026001A	09/22/2011 12:27	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112641026001A	09/22/2011 12:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112641026001A	09/22/2011 12:27	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112641026001A	09/22/2011 12:27	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112645711001	09/22/2011 09:24	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112645708002	09/21/2011 19:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112641026001	09/21/2011 19:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112645711001	09/21/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11270621202B	09/29/2011 00:24	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11270621202B	09/29/2011 00:24	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11266621201B	10/04/2011 10:55	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11273243201A	10/04/2011 17:39	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11273102201A	10/03/2011 09:05	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11270621202B	09/27/2011 07:25	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621201B	09/23/2011 05:35	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11273102201A	09/30/2011 15:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039403B	09/26/2011 10:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11273243201A	09/30/2011 09:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11272162401B	09/29/2011 21:46	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-144-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA7-SB-4.0-5.0

LLI Sample # SW 6412128
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:25

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4716 SDG#: DE247-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	70	U	70	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	70	U	70	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-144-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA7-SB-4.0-5.0

LLI Sample # SW 6412128
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:25

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4716 SDG#: DE247-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.3	U	6.3	19		1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.7		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.7		1
10138	Pyrene	129-00-0	0.70	U	0.70	1.7		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-144-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA7-SB-4.0-5.0

LLI Sample # SW 6412128
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:25

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4716 SDG#: DE247-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,700		6.27	20.7		1
07914	Boron	7440-42-8	0.373	U	0.373	5.18		1
01650	Calcium	7440-70-2	2,440		2.59	20.7		1
01654	Iron	7439-89-6	20,700		2.71	20.7		1
01656	Lithium	7439-93-2	25.5		0.64	2.1		1
01657	Magnesium	7439-95-4	4,800		0.456	10.4		1
06958	Manganese	7439-96-5	322		0.0373	0.518		1
10145	Phosphorus	7723-14-0	398		0.363	10.4		1
01662	Potassium	7440-09-7	3,230		11.7	51.8		1
01667	Sodium	7440-23-5	77.9	J	6.17	104		1
07968	Strontium	7440-24-6	16.9		0.0259	0.518		1
06969	Tin	7440-31-5	2.65	J	0.332	10.4		1
06970	Titanium	7440-32-6	1,170		0.0736	1.04		1
10146	Zirconium	7440-67-7	2.78	J	0.477	5.18		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.143	J	0.0775	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.40		0.0838	0.419		2
06126	Barium	7440-39-3	134		0.111	0.419		2
06127	Beryllium	7440-41-7	0.812		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.187		0.0461	0.105		2
06131	Chromium	7440-47-3	24.0		0.126	0.419		2
06132	Cobalt	7440-48-4	8.18		0.0209	0.105		2
06133	Copper	7440-50-8	12.4		0.0838	0.419		2
06135	Lead	7439-92-1	6.44		0.0107	0.209		2
06138	Molybdenum	7439-98-7	0.813		0.0524	0.105		2
06139	Nickel	7440-02-0	16.8		0.105	0.419		2
06141	Selenium	7782-49-2	0.164	J	0.0607	0.419		2
06142	Silver	7440-22-4	0.0459	J	0.0149	0.105		2
06145	Thallium	7440-28-0	0.356		0.0314	0.105		2
06148	Vanadium	7440-62-2	49.5		0.0230	0.105		2
06149	Zinc	7440-66-6	72.4		0.586	3.14		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	U	0.0071	0.100		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3		0.83	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26	J	0.21	1.0		1

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Sample Description: **SL-144-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA7-SB-4.0-5.0

LLI Sample # SW 6412128
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:25

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4716 SDG#: DE247-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.54	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11267SLH026	09/30/2011 20:36	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLD026	10/07/2011 11:22	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLD026	09/27/2011 18:00	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11267SLH026	09/28/2011 11:45	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670023A	09/28/2011 19:09	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670023A	09/27/2011 10:00	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	112645708002	09/29/2011 15:06	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112645708002	09/30/2011 12:22	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112645708002	09/29/2011 15:06	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112645708002	09/29/2011 15:06	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112645708002	09/29/2011 15:06	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112645708002	09/29/2011 15:06	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112645708002	09/30/2011 12:22	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112645708002	09/29/2011 15:06	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112645708002	09/29/2011 15:06	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112645708002	09/29/2011 15:06	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112645708002	09/30/2011 12:22	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112645708002	09/29/2011 15:06	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112645708002	09/29/2011 15:06	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112645708002	09/29/2011 15:06	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112641026001A	09/22/2011 12:30	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112641026001A	09/22/2011 12:30	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112641026001D	09/22/2011 12:30	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112641026001A	09/22/2011 12:30	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112641026001A	09/22/2011 12:30	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-144-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA7-SB-4.0-5.0

LLI Sample # SW 6412128
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:25

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4716 SDG#: DE247-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112641026001A	09/22/2011 12:30	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112641026001A	09/22/2011 12:30	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112641026001A	09/22/2011 12:30	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112641026001A	09/22/2011 12:30	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112641026001C	09/22/2011 12:30	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112641026001A	09/22/2011 12:30	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112641026001B	09/22/2011 12:30	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112641026001A	09/22/2011 12:30	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112641026001A	09/22/2011 12:30	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112641026001A	09/22/2011 12:30	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112641026001A	09/22/2011 12:30	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112645711001	09/22/2011 09:27	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112645708002	09/21/2011 19:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112641026001	09/21/2011 19:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112645711001	09/21/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11270621202B	09/29/2011 00:37	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11266621201B	09/27/2011 23:31	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11273243201A	10/04/2011 17:52	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11270621202B	09/27/2011 07:25	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621201B	09/23/2011 05:35	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039403B	09/26/2011 10:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11273243201A	09/30/2011 09:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11270162401A	09/27/2011 20:58	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-144-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA7-SB-9.0-10.0

LLI Sample # SW 6412129
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:28

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4717 SDG#: DE247-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: **SL-144-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA7-SB-9.0-10.0

LLI Sample # SW 6412129
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:28

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4717 SDG#: DE247-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.92	J	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-144-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA7-SB-9.0-10.0

LLI Sample # SW 6412129
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:28

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4717 SDG#: DE247-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,800		6.41	21.2		1
07914	Boron	7440-42-8	0.381	U	0.381	5.30		1
01650	Calcium	7440-70-2	2,730		2.65	21.2		1
01654	Iron	7439-89-6	21,000		2.76	21.2		1
01656	Lithium	7439-93-2	25.5		0.66	2.1		1
01657	Magnesium	7439-95-4	4,400		0.466	10.6		1
06958	Manganese	7439-96-5	330		0.0381	0.530		1
10145	Phosphorus	7723-14-0	462		0.371	10.6		1
01662	Potassium	7440-09-7	3,820		12.0	53.0		1
01667	Sodium	7440-23-5	81.1	J	6.30	106		1
07968	Strontium	7440-24-6	22.4		0.0265	0.530		1
06969	Tin	7440-31-5	2.69	J	0.339	10.6		1
06970	Titanium	7440-32-6	1,170		0.0752	1.06		1
10146	Zirconium	7440-67-7	2.83	J	0.487	5.30		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.193	J	0.0769	0.208		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.11		0.0831	0.415		2
06126	Barium	7440-39-3	121		0.275	1.04		5
06127	Beryllium	7440-41-7	0.841		0.0166	0.104		2
06128	Cadmium	7440-43-9	0.351		0.0457	0.104		2
06131	Chromium	7440-47-3	26.4		0.125	0.415		2
06132	Cobalt	7440-48-4	9.57		0.0208	0.104		2
06133	Copper	7440-50-8	16.7		0.0831	0.415		2
06135	Lead	7439-92-1	7.48		0.0106	0.208		2
06138	Molybdenum	7439-98-7	1.06		0.0519	0.104		2
06139	Nickel	7440-02-0	20.4		0.104	0.415		2
06141	Selenium	7782-49-2	0.207	J	0.0602	0.415		2
06142	Silver	7440-22-4	0.0494	J	0.0147	0.104		2
06145	Thallium	7440-28-0	0.427		0.0312	0.104		2
06148	Vanadium	7440-62-2	51.4		0.0228	0.104		2
06149	Zinc	7440-66-6	91.8		0.582	3.12		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	U	0.0073	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.84	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.30	J	0.20	1.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-144-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA7-SB-9.0-10.0

LLI Sample # SW 6412129
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:28

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4717 SDG#: DE247-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.24	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.6	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11267SLH026	09/30/2011 21:01	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLD026	10/07/2011 11:55	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLD026	09/27/2011 18:00	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11267SLH026	09/28/2011 11:45	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670023A	09/28/2011 20:04	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670023A	09/27/2011 10:00	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	112645708002	09/29/2011 15:11	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112645708002	09/30/2011 12:26	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112645708002	09/29/2011 15:11	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112645708002	09/29/2011 15:11	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112645708002	09/29/2011 15:11	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112645708002	09/29/2011 15:11	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112645708002	09/30/2011 12:26	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112645708002	09/29/2011 15:11	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112645708002	09/29/2011 15:11	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112645708002	09/29/2011 15:11	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112645708002	09/30/2011 12:26	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112645708002	09/29/2011 15:11	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112645708002	09/29/2011 15:11	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112645708002	09/29/2011 15:11	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112641026001A	09/22/2011 12:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112641026001A	09/22/2011 12:33	Choon Y Tian	2
06126	Barium	SW-846 6020	2	112641026001D	09/23/2011 14:52	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	112641026001A	09/22/2011 12:33	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112641026001A	09/22/2011 12:33	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-144-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA7-SB-9.0-10.0

LLI Sample # SW 6412129
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:28

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4717 SDG#: DE247-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112641026001A	09/22/2011 12:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112641026001A	09/22/2011 12:33	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112641026001A	09/22/2011 12:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112641026001A	09/22/2011 12:33	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112641026001C	09/22/2011 12:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112641026001A	09/22/2011 12:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112641026001B	09/22/2011 12:33	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112641026001A	09/22/2011 12:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112641026001A	09/22/2011 12:33	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112641026001A	09/22/2011 12:33	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112641026001A	09/22/2011 12:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112645711001	09/22/2011 09:28	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112645708002	09/21/2011 19:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112641026001	09/21/2011 19:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112645711001	09/21/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11270621202B	09/29/2011 00:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11266621201B	09/27/2011 23:54	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11273243201A	10/04/2011 18:06	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11270621202B	09/27/2011 07:25	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621201B	09/23/2011 05:35	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039403B	09/26/2011 10:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11273243201A	09/30/2011 09:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11270162401A	09/27/2011 20:58	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-145-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA7-SB-4.0-5.0

LLI Sample # SW 6412130
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 12:40

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4718 SDG#: DE247-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	70	U	70	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	70	U	70	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1

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Sample Description: **SL-145-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-145-SA7-SB-4.0-5.0

LLI Sample # SW 6412130
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 12:40

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4718 SDG#: DE247-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.3	U	6.3	19		1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.7		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.7		1
10138	Pyrene	129-00-0	0.70	U	0.70	1.7		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

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Sample Description: **SL-145-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-145-SA7-SB-4.0-5.0

LLI Sample # SW 6412130
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 12:40

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4718 SDG#: DE247-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,500		6.20	20.5		1
07914	Boron	7440-42-8	0.369	U	0.369	5.13		1
01650	Calcium	7440-70-2	2,540		2.56	20.5		1
01654	Iron	7439-89-6	20,800		2.68	20.5		1
01656	Lithium	7439-93-2	25.6		0.64	2.1		1
01657	Magnesium	7439-95-4	4,730		0.451	10.3		1
06958	Manganese	7439-96-5	319		0.0369	0.513		1
10145	Phosphorus	7723-14-0	359		0.359	10.3		1
01662	Potassium	7440-09-7	3,040		11.6	51.3		1
01667	Sodium	7440-23-5	76.2	J	6.10	103		1
07968	Strontium	7440-24-6	18.9		0.0256	0.513		1
06969	Tin	7440-31-5	2.63	J	0.328	10.3		1
06970	Titanium	7440-32-6	1,190		0.0728	1.03		1
10146	Zirconium	7440-67-7	2.86	J	0.472	5.13		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.136	J	0.0766	0.207		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.14		0.0829	0.414		2
06126	Barium	7440-39-3	157		0.110	0.414		2
06127	Beryllium	7440-41-7	0.830		0.0166	0.104		2
06128	Cadmium	7440-43-9	0.203		0.0456	0.104		2
06131	Chromium	7440-47-3	25.8		0.124	0.414		2
06132	Cobalt	7440-48-4	9.52		0.0207	0.104		2
06133	Copper	7440-50-8	12.9		0.0829	0.414		2
06135	Lead	7439-92-1	7.11		0.0106	0.207		2
06138	Molybdenum	7439-98-7	1.02		0.0518	0.104		2
06139	Nickel	7440-02-0	18.6		0.104	0.414		2
06141	Selenium	7782-49-2	0.137	J	0.0601	0.414		2
06142	Silver	7440-22-4	0.0598	J	0.0147	0.104		2
06145	Thallium	7440-28-0	0.387		0.0311	0.104		2
06148	Vanadium	7440-62-2	53.6		0.0228	0.104		2
06149	Zinc	7440-66-6	79.2		0.580	3.11		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	U	0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.30	J	0.21	1.0		1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-145-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA7-SB-4.0-5.0

LLI Sample # SW 6412130
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 12:40

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4718 SDG#: DE247-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.81	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.4	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11267SLH026	09/30/2011 21:25	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLD026	10/07/2011 12:28	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLD026	09/27/2011 18:00	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11267SLH026	09/28/2011 11:45	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670023A	09/28/2011 20:23	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670023A	09/27/2011 10:00	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	112645708002	09/29/2011 15:15	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112645708002	09/30/2011 12:30	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112645708002	09/29/2011 15:15	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112645708002	09/29/2011 15:15	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112645708002	09/29/2011 15:15	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112645708002	09/29/2011 15:15	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112645708002	09/30/2011 12:30	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112645708002	09/29/2011 15:15	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112645708002	09/29/2011 15:15	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112645708002	09/29/2011 15:15	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112645708002	09/30/2011 12:30	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112645708002	09/29/2011 15:15	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112645708002	09/29/2011 15:15	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112645708002	09/29/2011 15:15	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112641026001A	09/22/2011 12:36	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112641026001A	09/22/2011 12:36	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112641026001D	09/22/2011 12:36	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112641026001A	09/22/2011 12:36	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112641026001A	09/22/2011 12:36	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-145-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA7-SB-4.0-5.0

LLI Sample # SW 6412130
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 12:40

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4718 SDG#: DE247-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112641026001A	09/22/2011 12:36	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112641026001A	09/22/2011 12:36	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112641026001A	09/22/2011 12:36	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112641026001A	09/22/2011 12:36	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112641026001C	09/22/2011 12:36	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112641026001A	09/22/2011 12:36	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112641026001B	09/22/2011 12:36	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112641026001A	09/22/2011 12:36	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112641026001A	09/22/2011 12:36	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112641026001A	09/22/2011 12:36	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112641026001A	09/22/2011 12:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112645711001	09/22/2011 09:30	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112645708002	09/21/2011 19:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112641026001	09/21/2011 19:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112645711001	09/21/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11270621202B	09/29/2011 01:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11266621201B	09/28/2011 00:17	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11273243201A	10/04/2011 18:26	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11270621202B	09/27/2011 07:25	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621201B	09/23/2011 05:35	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039403B	09/26/2011 10:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11273243201A	09/30/2011 09:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11270162401A	09/27/2011 20:58	Scott W Freisher	1

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Analysis Report

Sample Description: SL-145-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-145-SA7-SB-9.0-10.0

LLI Sample # SW 6412131
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 12:43

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4719 SDG#: DE247-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: **SL-145-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-145-SA7-SB-9.0-10.0

LLI Sample # SW 6412131
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 12:43

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4719 SDG#: DE247-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.5	J	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.43	J	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	1.0	J	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.55	J	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-145-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-145-SA7-SB-9.0-10.0

LLI Sample # SW 6412131
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 12:43

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4719 SDG#: DE247-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,500		6.24	20.6		1
07914	Boron	7440-42-8	0.371	U	0.371	5.15		1
01650	Calcium	7440-70-2	2,540		2.58	20.6		1
01654	Iron	7439-89-6	18,100		2.69	20.6		1
01656	Lithium	7439-93-2	23.0		0.64	2.1		1
01657	Magnesium	7439-95-4	3,970		0.453	10.3		1
06958	Manganese	7439-96-5	318		0.0371	0.515		1
10145	Phosphorus	7723-14-0	317		0.361	10.3		1
01662	Potassium	7440-09-7	3,310		11.6	51.5		1
01667	Sodium	7440-23-5	95.3	J	6.13	103		1
07968	Strontium	7440-24-6	22.5		0.0258	0.515		1
06969	Tin	7440-31-5	2.54	J	0.330	10.3		1
06970	Titanium	7440-32-6	1,090		0.0732	1.03		1
10146	Zirconium	7440-67-7	2.76	J	0.474	5.15		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.117	J	0.0778	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.93		0.0841	0.420		2
06126	Barium	7440-39-3	163		0.111	0.420		2
06127	Beryllium	7440-41-7	0.738		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.307		0.0462	0.105		2
06131	Chromium	7440-47-3	22.9		0.126	0.420		2
06132	Cobalt	7440-48-4	7.73		0.0210	0.105		2
06133	Copper	7440-50-8	13.2		0.0841	0.420		2
06135	Lead	7439-92-1	7.58		0.0107	0.210		2
06138	Molybdenum	7439-98-7	0.933		0.0526	0.105		2
06139	Nickel	7440-02-0	16.8		0.105	0.420		2
06141	Selenium	7782-49-2	0.182	J	0.0610	0.420		2
06142	Silver	7440-22-4	0.0406	J	0.0149	0.105		2
06145	Thallium	7440-28-0	0.390		0.0315	0.105		2
06148	Vanadium	7440-62-2	42.4		0.0231	0.105		2
06149	Zinc	7440-66-6	76.2		0.589	3.15		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0070	U	0.0070	0.0999		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.84	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	31.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.39	J	0.20	1.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-145-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-145-SA7-SB-9.0-10.0

LLI Sample # SW 6412131
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 12:43

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4719 SDG#: DE247-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.45	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.8	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11267SLH026	09/30/2011 21:51	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLD026	10/07/2011 13:00	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLD026	09/27/2011 18:00	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11267SLH026	09/28/2011 11:45	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112730025A	10/03/2011 13:24	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	112730025A	10/01/2011 10:00	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	112645708002	09/29/2011 15:19	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112645708002	09/30/2011 12:34	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112645708002	09/29/2011 15:19	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112645708002	09/29/2011 15:19	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112645708002	09/29/2011 15:19	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112645708002	09/29/2011 15:19	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112645708002	09/30/2011 12:34	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112645708002	09/29/2011 15:19	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112645708002	09/29/2011 15:19	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112645708002	09/29/2011 15:19	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112645708002	09/30/2011 12:34	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112645708002	09/29/2011 15:19	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112645708002	09/29/2011 15:19	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112645708002	09/29/2011 15:19	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112641026001A	09/22/2011 12:39	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112641026001A	09/22/2011 12:39	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112641026001D	09/22/2011 12:39	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112641026001A	09/22/2011 12:39	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112641026001A	09/22/2011 12:39	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-145-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-145-SA7-SB-9.0-10.0

LLI Sample # SW 6412131
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 12:43

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4719 SDG#: DE247-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112641026001A	09/22/2011 12:39	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112641026001A	09/22/2011 12:39	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112641026001A	09/22/2011 12:39	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112641026001A	09/22/2011 12:39	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112641026001C	09/22/2011 12:39	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112641026001A	09/22/2011 12:39	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112641026001B	09/22/2011 12:39	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112641026001A	09/22/2011 12:39	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112641026001A	09/22/2011 12:39	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112641026001A	09/22/2011 12:39	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112641026001A	09/22/2011 12:39	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112645711001	09/22/2011 09:31	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112645708002	09/21/2011 19:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112641026001	09/21/2011 19:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112645711001	09/21/2011 23:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11270621202B	09/29/2011 01:15	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11266621201B	09/28/2011 00:40	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11273243201A	10/04/2011 18:32	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11270621202B	09/27/2011 07:25	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621201B	09/23/2011 05:35	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11269039403B	09/26/2011 10:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11273243201A	09/30/2011 09:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11270162401A	09/27/2011 20:58	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **TB-091911 Water**
SSFL Area IV Collocated Soil Sampling
TB-091911

LLI Sample # WW 6412132
LLI Group # 1267306
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 08:00

Submitted: 09/20/2011 09:10
Reported: 10/20/2011 11:55

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4720 SDG#: DE247-20TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11272B20A	09/30/2011 00:49	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11272B20A	09/30/2011 00:49	Laura M Krieger	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267306
Reported: 10/20/11 at 11:55 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11265SLB026	Sample number(s): 6412108,6412110,6412117-6412118,6412120,6412122,6412126-6412127									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	108		70-130		
Batch number: 11267SLD026	Sample number(s): 6412108-6412113,6412117-6412131									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	98		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	98		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	100		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	99		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	96		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	99		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	108		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	98		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	111		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	117		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	98		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	105		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	104		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	102		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	129		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	104		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	103		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	105		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	91		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	90		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	93		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	88		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	118		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	95		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	93		72-119		
Batch number: 11267SLH026	Sample number(s): 6412108-6412113,6412117-6412131									
Acenaphthene	17	U	17.	170	ug/kg	107		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	115		75-122		
Aniline	170 U		170.	500	ug/kg	84		20-115		
Anthracene	17	U	17.	170	ug/kg	112		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	42		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	107		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	112		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	123		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	113		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	108		67-125		
Benzoic acid	170 U		170.	500	ug/kg	83		62-113		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267306
Reported: 10/20/11 at 11:55 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzyl alcohol	170 U		170.	500	ug/kg	103		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	107		73-114		
2-butoxy-Ethanol	1,700 U		1,700.	1,700	ug/kg					
Butylbenzylphthalate	17	U	17.	170	ug/kg	109		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	109		79-112		
Carbazole	17	U	17.	170	ug/kg	108		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	111		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	52		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	105		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	105*		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	97		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	95		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	111		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	105		74-115		
Chrysene	17	U	17.	170	ug/kg	104		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	115		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	105		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	101*		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	101*		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	99		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	64		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	111		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	110		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	109		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	106		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	109		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	75		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	45		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	108		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	115		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	108		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	108		75-117		
Fluoranthene	17	U	17.	170	ug/kg	110		78-116		
Fluorene	17	U	17.	170	ug/kg	110		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	101		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	101		65-117		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	107		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	101		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	118		64-119		
Isophorone	17	U	17.	170	ug/kg	104		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	105		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	108		69-109		
2-Methylphenol	33	U	33.	170	ug/kg	109		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	105		66-117		
Naphthalene	17	U	17.	170	ug/kg	103		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	104		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	98		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	66		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	106		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	112*		76-111		
4-Nitrophenol	170 U		170.	500	ug/kg	91		56-118		

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267306
Reported: 10/20/11 at 11:55 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	97		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	91		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	112		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	107		62-137		
Pentachlorophenol	170	U	170.	500	ug/kg	90		51-117		
Phenanthrene	17	U	17.	170	ug/kg	107		77-113		
Phenol	17	U	17.	170	ug/kg	107		58-112		
2-phenoxy-Ethanol	1,700	U	1,700.	1,700	ug/kg					
Pyrene	17	U	17.	170	ug/kg	106		75-115		
Tetralin	170	U	170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	102		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	110*		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	114*		78-111		
Batch number: 11265A34A	Sample number(s): 6412126-6412127									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	69	76	67-119	10	30
Batch number: 11272B20A	Sample number(s): 6412132									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 112640025A	Sample number(s): 6412108,6412110,6412117,6412120,6412122,6412126-6412127									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	106		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	103		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	66	81	54-134	20	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	66	81	54-134	20	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	107		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	98		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	105		80-120		
HMX	100	U	100.	300	ug/kg	92		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	98		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	85		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	99		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	105		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	98		80-120		
PETN	800	U	800.	2,400	ug/kg	100		80-120		
RDX	50	U	50.	120	ug/kg	104		75-131		
Tetryl	61	U	61.	120	ug/kg	94		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	103		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	105		80-120		
Batch number: 112670007A	Sample number(s): 6412108,6412110,6412117-6412118,6412120,6412122,6412126-6412127									
20a Formaldehyde 8315A	600	U	600.	1,500	ug/kg	104		80-126		
Batch number: 112670048A	Sample number(s): 6412108-6412113,6412115-6412123									
2,4-D	1.2	U	1.2	3.6	ug/kg	103		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	46		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	80		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	94		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	8*		10-36		

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267306
Reported: 10/20/11 at 11:55 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	108		62-170		
MCPA	76	U	76.	250	ug/kg	87		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	73		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	95		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	94		68-114		
Batch number: 112670023A	Sample number(s): 6412108-6412110,6412115-6412119,6412122-6412130									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	118*	79	36-106	40*	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	112		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	121		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112670033A	Sample number(s): 6412108-6412113,6412115-6412123									
Aldrin	0.066	U	0.066	0.17	ug/kg	73		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	65		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	97		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	76		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	107		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	108		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	106		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	97		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	100		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	71		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	89		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	122		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	100		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	83		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	114		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	74		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	97		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	116		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 112730025A	Sample number(s): 6412111-6412113,6412120-6412121,6412131									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	71	86	36-106	18	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	92		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	104		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112640014A	Sample number(s): 6412108-6412110,6412117-6412118,6412120-6412122,6412126-									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267306
Reported: 10/20/11 at 11:55 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	6412127									
Diethylene glycol	5.0	U	5.0	10	mg/kg	86		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	88		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	78		67-131		
Batch number: 112640035A	Sample number(s): 6412108-6412110,6412117-6412118,6412120-6412122,6412126-6412127									
Ethanol	100	U	100.	500	ug/kg	86		71-129		
Isopropanol	100	U	100.	500	ug/kg	86		75-125		
Methanol	100	U	100.	500	ug/kg	88		68-129		
Batch number: 112660005A	Sample number(s): 6412108-6412110,6412117-6412118,6412120-6412122,6412126-6412127									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	94		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	96		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	99		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	94		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	82		49-107		
Batch number: 112670016A	Sample number(s): 6412108-6412110,6412117-6412118,6412120-6412122,6412126-6412127									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	89		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	90		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	90		69-109		
Batch number: 112641026001A	Sample number(s): 6412108-6412114,6412117-6412131									
Antimony	0.0740	U	0.0740	0.200	mg/kg	99		10-224		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	111		78-122		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	110		80-120		
Cadmium	0.0440	U	0.0440	0.100	mg/kg	113		81-119		
Chromium	0.120	U	0.120	0.400	mg/kg	119		77-123		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	107		80-119		
Copper	0.0800	U	0.0800	0.400	mg/kg	116		78-122		
Lead	0.0102	U	0.0102	0.200	mg/kg	105		77-123		
Nickel	0.100	U	0.100	0.400	mg/kg	116		80-120		
Silver	0.0142	U	0.0142	0.100	mg/kg	112		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	108		75-124		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	122		76-124		
Zinc	0.560	U	0.560	3.00	mg/kg	115		79-121		
Batch number: 112641026001B	Sample number(s): 6412108-6412114,6412117-6412131									
Selenium	0.0580	U	0.0580	0.400	mg/kg	112		77-123		
Batch number: 112641026001C	Sample number(s): 6412108-6412114,6412117-6412131									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	117		76-123		
Batch number: 112641026001D	Sample number(s): 6412108-6412114,6412117-6412131									
Barium	0.106	U	0.106	0.400	mg/kg	112		80-120		
Batch number: 112645708002	Sample number(s): 6412108-6412114,6412117-6412131									
Aluminum	6.05	U	6.05	20.0	mg/kg	154		42-158		
Boron	0.454	J	0.360	5.00	mg/kg	109		66-134		
Calcium	8.52	J	2.50	20.0	mg/kg	114		79-121		
Iron	3.28	J	2.61	20.0	mg/kg	138		51-149		
Lithium	0.62	U	0.62	2.0	mg/kg	102		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267306
Reported: 10/20/11 at 11:55 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Magnesium	0.501	J	0.440	10.0	mg/kg	128		64-136		
Manganese	0.0480	J	0.0360	0.500	mg/kg	107		78-122		
Phosphorus	1.30	J	0.350	10.0	mg/kg	105		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	123		69-131		
Sodium	5.95	U	5.95	100	mg/kg	117		71-129		
Strontium	0.0490	J	0.0250	0.500	mg/kg	111		81-119		
Tin	1.73	J	0.320	10.0	mg/kg	100		74-126		
Titanium	0.0710	U	0.0710	1.00	mg/kg	93		80-120		
Zirconium	0.614	J	0.460	5.00	mg/kg	106		80-120		
Batch number: 112645711001	Sample number(s): 6412108-6412114,6412117-6412131									
Mercury	0.0290	J	0.0069	0.0977	mg/kg	110		72-128		
Batch number: 11266621201A	Sample number(s): 6412108-6412112,6412114,6412117-6412122									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	99		85-115		
Batch number: 11266621201B	Sample number(s): 6412123-6412131									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	99		85-115		
Batch number: 11270621202A	Sample number(s): 6412108-6412112,6412114,6412117-6412122									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	91		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	95		90-110		
Batch number: 11270621202B	Sample number(s): 6412123-6412131									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	91		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	95		90-110		
Batch number: 11273102201A	Sample number(s): 6412108-6412110,6412117,6412120-6412122,6412126-6412127									
16a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	95		80-120		
Batch number: 11273243201A	Sample number(s): 6412108-6412112,6412114,6412117-6412131									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	89		80-120		
Batch number: 11269039403A	Sample number(s): 6412108-6412111,6412114,6412117-6412121									
17a pH by 9045C						100		95-105		
Batch number: 11269039403B	Sample number(s): 6412122-6412131									
17a pH by 9045C						100		95-105		
Batch number: 11270162401A	Sample number(s): 6412109,6412111-6412115,6412118-6412119,6412121,6412123-6412125,6412128-6412131									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Batch number: 11272162401B	Sample number(s): 6412108,6412110,6412117,6412120,6412122,6412126-6412127									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

	MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup RPD

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267306
Reported: 10/20/11 at 11:55 AM

Analysis Name	%REC	%REC	Limits	RPD	MAX	Conc	Conc	RPD	Max
Batch number: 11265SLB026	Sample number(s): 6412108,6412110,6412117-6412118,6412120,6412122,6412126-6412127 UNSPK: P406203								
N-Nitrosodimethylamine	55*	44*	70-130	19	30				
Batch number: 11267SLD026	Sample number(s): 6412108-6412113,6412117-6412131 UNSPK: 6412111								
Acenaphthene	95	110*	63-105	15	30				
Acenaphthylene	91	106	67-114	15	30				
Anthracene	96	113	73-115	16	30				
Benzo(a)anthracene	113	132*	59-128	16	30				
Benzo(a)pyrene	113	137	58-142	19	30				
Benzo(b)fluoranthene	131	161	54-163	19	30				
Benzo(g,h,i)perylene	64	71	33-141	10	30				
Benzo(k)fluoranthene	116	137	57-153	17	30				
Butylbenzylphthalate	109	124	57-173	13	30				
Di-n-butylphthalate	114	132	65-148	15	30				
Chrysene	114	133*	67-123	15	30				
Dibenz(a,h)anthracene	65	73	22-133	11	30				
Diethylphthalate	102	115	70-136	12	30				
Dimethylphthalate	100	113	74-118	13	30				
Bis(2-Ethylhexyl)phthalate	168*	245*	39-167	37*	30				
Fluoranthene	134	172*	51-149	23	30				
Fluorene	95	111	66-122	15	30				
Indeno(1,2,3-cd)pyrene	68	78	21-143	13	30				
1-Methylnaphthalene	91	102	72-123	12	30				
2-Methylnaphthalene	91	103	64-103	12	30				
Naphthalene	93	105*	61-102	12	30				
N-Nitrosodimethylamine	89	100	48-113	12	30				
Di-n-octylphthalate	153	181	40-192	17	30				
Phenanthrene	112	138*	62-122	21	30				
Pyrene	117	152*	51-131	24	30				
Batch number: 11267SLH026	Sample number(s): 6412108-6412113,6412117-6412131 UNSPK: 6412111								
Acenaphthene	107	103	75-115	4	30				
Acenaphthylene	116*	111*	81-110	4	30				
Aniline	79	85	18-116	8	30				
Anthracene	107	108	75-115	1	30				
Benzidine	25*	27*	35-141	9	30				
Benzo(a)anthracene	98	99	65-122	1	30				
Benzo(a)pyrene	107	106	57-126	1	30				
Benzo(b)fluoranthene	110	119	59-125	8	30				
Benzo(g,h,i)perylene	112	109	59-127	2	30				
Benzo(k)fluoranthene	112	101	56-132	10	30				
Benzoic acid	22	21	10-173	5	30				
Benzyl alcohol	107	110	67-115	3	30				
4-Bromophenyl-phenylether	105	109	67-129	3	30				
Butylbenzylphthalate	110	109	73-134	1	30				
Di-n-butylphthalate	106	109	67-123	3	30				
Carbazole	104	105	64-120	1	30				
4-Chloro-3-methylphenol	112	107	62-122	5	30				
4-Chloroaniline	49	57	13-107	15	30				
bis(2-Chloroethoxy)methane	103	98	75-104	5	30				
bis(2-Chloroethyl)ether	102	107	60-116	4	30				
bis(2-Chloroisopropyl)ether	97	100	55-142	3	30				
2-Chloronaphthalene	93	87	50-141	6	30				
2-Chlorophenol	113	113	73-121	0	30				
4-Chlorophenyl-phenylether	102	99	80-109	3	30				
Chrysene	92	94	62-128	2	30				
Dibenz(a,h)anthracene	113	111	65-125	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267306
Reported: 10/20/11 at 11:55 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Dibenzofuran	106	100	71-112	5	30				
1,2-Dichlorobenzene	98	102	66-108	4	30				
1,3-Dichlorobenzene	99	102	63-109	4	30				
1,4-Dichlorobenzene	99	98	58-108	1	30				
3,3'-Dichlorobenzidine	61	65	28-109	7	30				
2,4-Dichlorophenol	110	103	66-123	7	30				
Diethylphthalate	109	103	66-118	5	30				
2,4-Dimethylphenol	113	107	68-118	6	30				
3,5-Dimethylphenol	105	102	71-127	3	30				
Dimethylphthalate	107	104	64-118	3	30				
4,6-Dinitro-2-methylphenol	58	57	11-126	2	30				
2,4-Dinitrophenol	21	0*	20-143	200*	30				
2,4-Dinitrotoluene	103	105	56-129	1	30				
2,6-Dinitrotoluene	113	110	69-123	3	30				
1,2-Diphenylhydrazine	108	108	71-129	0	30				
bis(2-Ethylhexyl)phthalate	102	104	63-122	1	30				
Fluoranthene	105	107	73-112	2	30				
Fluorene	109	105	63-121	4	30				
Hexachlorobenzene	100	103	77-114	3	30				
Hexachlorobutadiene	98	96	62-120	2	30				
Hexachlorocyclopentadiene	78	76	10-153	1	30				
Hexachloroethane	98	100	57-109	2	30				
Indeno(1,2,3-cd)pyrene	113	113	61-126	0	30				
Isophorone	102	100	73-102	2	30				
1-Methylnaphthalene	105	99	64-122	7	30				
2-Methylnaphthalene	110	103	76-114	7	30				
2-Methylphenol	114*	116*	75-111	2	30				
4-Methylphenol	109	107	59-123	1	30				
Naphthalene	102	100	72-116	3	30				
2-Nitroaniline	104	99	67-125	5	30				
3-Nitroaniline	102	99	59-122	2	30				
4-Nitroaniline	75	72	41-109	4	30				
Nitrobenzene	102	100	57-125	2	30				
2-Nitrophenol	111	110	56-127	1	30				
4-Nitrophenol	93	92	37-129	2	30				
N-Nitroso-di-n-propylamine	97	100	60-116	4	30				
N-Nitrosodimethylamine	87	90	47-116	3	30				
N-Nitrosodiphenylamine	110	112	71-122	2	30				
Di-n-octylphthalate	116	117	56-126	0	30				
Pentachlorophenol	55	61	28-127	10	30				
Phenanthrene	105	106	65-125	1	30				
Phenol	111	109	58-126	1	30				
Pyrene	103	103	74-126	1	30				
1,2,4-Trichlorobenzene	101	99	72-115	2	30				
2,4,5-Trichlorophenol	106	102	58-129	4	30				
2,4,6-Trichlorophenol	112	109	56-134	3	30				
Batch number: 11265A34A	Sample number(s): 6412126-6412127 UNSPK: P419519								
9a TPH by EPA 8015B Gas C5-C12	74	87	39-118	17	30				
Batch number: 112640025A	Sample number(s): 6412108,6412110,6412117,6412120,6412122,6412126-6412127 UNSPK: P404514								
4-Amino-2,6-Dinitrotoluene	106	105	80-127	1	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267306
Reported: 10/20/11 at 11:55 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Amino-4,6-Dinitrotoluene	103	101	80-137	2	50				
1,3-Dinitrobenzene	106	105	38-166	1	50				
2,4-Dinitrotoluene	98	96	80-131	2	50				
2,6-Dinitrotoluene	102	103	80-127	1	50				
HMX	91	92	63-128	0	50				
Nitrobenzene	99	98	80-125	1	50				
Nitroglycerin	96	95	80-120	1	50				
2-Nitrotoluene	96	97	80-122	0	50				
3-Nitrotoluene	102	102	72-119	0	50				
4-Nitrotoluene	95	96	80-125	0	50				
PETN	104	102	80-121	1	50				
RDX	94	93	75-129	2	50				
Tetryl	80	82	55-174	3	50				
1,3,5-Trinitrobenzene	93	93	82-126	1	50				
2,4,6-Trinitrotoluene	103	103	82-130	0	50				
Batch number: 112670007A	Sample number(s): 6412108,6412110,6412117-6412118,6412120,6412122,6412126-6412127 UNSPK: 6412108								
20a Formaldehyde 8315A	95	95	80-120	0	50				
Batch number: 112670048A	Sample number(s): 6412108-6412113,6412115-6412123 UNSPK: 6412111								
2,4-D	94	61	17-180	44*	35				
Dalapon	67	52	10-125	26	50				
2,4-DB	0*	53	10-201	200*	50				
Dicamba	125	169	10-190	30	50				
Dinoseb	7*	8*	10-46	17	35				
2,4-DP (Dichlorprop)	96	83	33-178	16	50				
MCPA	33	17	10-213	64*	50				
MCPP (Mecoprop)	72	37	10-184	66*	50				
2,4,5-T	-46*	-17*	10-156	49*	35				
2,4,5-TP	66	40	24-141	50*	35				
Batch number: 112670023A	Sample number(s): 6412108-6412110,6412115-6412119,6412122-6412130 UNSPK: P412111								
PCB-1016	85	97	29-146	14	50				
PCB-1260	72	86	39-149	16	50				
Batch number: 112670033A	Sample number(s): 6412108-6412113,6412115-6412123 UNSPK: 6412111								
Aldrin	73	82	16-126	12	50				
Alpha BHC	71	76	10-129	8	50				
Beta BHC	53	53	14-147	0	50				
Gamma BHC - Lindane	59	70	10-140	15	50				
p,p-DDD	87	66	16-163	27	50				
p,p-DDE	77	57	18-161	18	50				
p,p-DDT	6*	54	10-176	25	50				
Delta BHC	72	84	23-140	16	50				
Dieldrin	76	87	19-154	13	50				
Endosulfan I	53	53	16-137	0	50				
Endosulfan II	51	57	28-154	11	50				
Endosulfan Sulfate	74	80	21-160	8	50				
Endrin	52	60	11-149	13	50				
Endrin Aldehyde	80	118	10-148	38*	35				
Endrin Ketone	61	61	22-165	0	50				
Heptachlor	76	91	13-126	18	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267306
Reported: 10/20/11 at 11:55 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Heptachlor Epoxide	76	91	13-157	18	50				
Methoxychlor	86	91	32-147	6	50				
Batch number: 112730025A	Sample number(s): 6412111-6412113,6412120-6412121,6412131 UNSPK: 6412111								
PCB-1016	68	94	29-146	33	50				
PCB-1260	54	83	39-149	39	50				
Batch number: 112640014A	Sample number(s): 6412108-6412110,6412117-6412118,6412120-6412122,6412126-6412127 UNSPK: 6412108								
Diethylene glycol	0*	0*	59-109	0	20				
Ethylene glycol	23*	21*	63-107	5	20				
Propylene glycol	35*	32*	63-107	6	20				
Batch number: 112640035A	Sample number(s): 6412108-6412110,6412117-6412118,6412120-6412122,6412126-6412127 UNSPK: P409752								
Ethanol	90	90	48-130	1	20				
Isopropanol	94	94	12-149	0	20				
Methanol	97	94	43-138	2	20				
Batch number: 112660005A	Sample number(s): 6412108-6412110,6412117-6412118,6412120-6412122,6412126-6412127 UNSPK: P409790								
EFH (C12-C14)	0*	0*	49-123	0	20				
EFH (C15-C20)	478 (2)	130 (2)	49-123	33*	20				
EFH (C21-C30)	3111 (2)	-283 (2)	49-123	36*	20				
EFH (C30 - C40)	5684 (2)	-1687 (2)	49-123	34*	20				
EFH (C8-C11)	0*	0*	49-123	0	20				
Batch number: 112670016A	Sample number(s): 6412108-6412110,6412117-6412118,6412120-6412122,6412126-6412127 UNSPK: 6412108								
m-Terphenyl	90	92	75-125	2	20				
o-Terphenyl	90	90	75-125	0	20				
p-Terphenyl	91	91	75-125	0	20				
Batch number: 112641026001A	Sample number(s): 6412108-6412114,6412117-6412131 UNSPK: 6412111 BKG: 6412111								
Antimony	55*	63*	75-125	14	20	0.132 J	0.119 J	10 (1)	20
Arsenic	159*	155*	75-125	0	20	4.30	4.86	12	20
Beryllium	146*	127*	75-125	7	20	0.582	0.653	12	20
Cadmium	155*	142*	75-125	5	20	0.237	0.406	52* (1)	20
Chromium	160*	125	75-125	10	20	16.7	21.6	26*	20
Cobalt	146*	135*	75-125	5	20	6.06	7.09	16	20
Copper	157*	139*	75-125	5	20	9.13	10.5	14	20
Lead	173*	147*	75-125	5	20	7.38	8.73	17	20
Nickel	166*	148*	75-125	5	20	11.4	15.7	31*	20
Silver	144*	136*	75-125	3	20	0.0308 J	0.0374 J	19 (1)	20
Thallium	159*	127*	75-125	13	20	0.284	0.321	12 (1)	20
Vanadium	192*	144*	75-125	8	20	33.6	39.9	17	20
Zinc	0 (2)	65 (2)	75-125	3	20	236	376	46*	20
Batch number: 112641026001B	Sample number(s): 6412108-6412114,6412117-6412131 UNSPK: 6412111 BKG: 6412111								
Selenium	132*	133*	75-125	4	20	0.125 J	0.128 J	2 (1)	20

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Quality Control Summary

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Reported: 10/20/11 at 11:55 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 112641026001C	Sample number(s): 6412108-6412114,6412117-6412131 UNSPK: 6412111 BKG: 6412111								
Molybdenum	151*	139*	75-125	5	20	0.442	0.606	31* (1)	20
Batch number: 112641026001D	Sample number(s): 6412108-6412114,6412117-6412131 UNSPK: 6412111 BKG: 6412111								
Barium	332 (2)	181 (2)	75-125	12	20	96.0	110	14	20
Batch number: 112645708002	Sample number(s): 6412108-6412114,6412117-6412131 UNSPK: 6412111 BKG: 6412111								
Aluminum	1115 (2)	989 (2)	75-125	2	20	12,700	12,600	0	20
Boron	101	99	84-115	2	20	0.356 U	0.360 U	0 (1)	20
Calcium	138 (2)	141 (2)	75-125	0	20	2,850	2,810	1	20
Iron	453 (2)	455 (2)	75-125	0	20	18,000	18,100	1	20
Lithium	102	102	82-114	0	20	24.2	23.6	3	20
Magnesium	103 (2)	121 (2)	75-125	1	20	4,170	4,040	3	20
Manganese	134 (2)	72 (2)	75-125	9	20	272	272	0	20
Phosphorus	91 (2)	83 (2)	75-125	2	20	411	395	4	20
Potassium	112	109	75-125	1	20	3,220	3,090	4	20
Sodium	99	99	75-125	1	20	69.5 J	68.4 J	2 (1)	20
Strontium	102	98	75-115	3	20	15.8	15.1	5	20
Tin	90	89	80-110	0	20	2.81 J	2.85 J	1 (1)	20
Titanium	211 (2)	215 (2)	75-125	0	20	1,080	1,070	2	20
Zirconium	101	101	75-125	0	20	2.26 J	3.39 J	40* (1)	20
Batch number: 112645711001	Sample number(s): 6412108-6412114,6412117-6412131 UNSPK: 6412111 BKG: 6412111								
Mercury	101	100	65-135	0	20	0.0072 J	0.0080 J	10 (1)	20
Batch number: 11266621201A	Sample number(s): 6412108-6412112,6412114,6412117-6412122 UNSPK: 6412111 BKG: 6412111								
7a Perchlorate EPA 314.0	101		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11266621201B	Sample number(s): 6412123-6412131 UNSPK: 6412124 BKG: 6412124								
7a Perchlorate EPA 314.0	97		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11270621202A	Sample number(s): 6412108-6412112,6412114,6412117-6412122 UNSPK: 6412111 BKG: 6412111								
11a Anions by 300.0 - Fluoride	77*		80-120			0.80 U	0.80 U	0 (1)	20
11a Anions by 300.0 - Nitrate	92		80-120			1.3 J	1.3 J	6 (1)	20
Batch number: 11270621202B	Sample number(s): 6412123-6412131 UNSPK: 6412124 BKG: 6412124								
11a Anions by 300.0 - Fluoride	43*		80-120			2.5	2.3	9 (1)	20
11a Anions by 300.0 - Nitrate	88		80-120			1.1 J	0.89 J	22* (1)	20
Batch number: 11273102201A	Sample number(s): 6412108-6412110,6412117,6412120-6412122,6412126-6412127 UNSPK: 6412108 BKG: 6412108								
16a Cyanide by 9012B	88		75-125			0.18 U	0.17 U	0 (1)	20
Batch number: 11273243201A	Sample number(s): 6412108-6412112,6412114,6412117-6412131 UNSPK: 6412111 BKG: 6412111								
3a Cr VI by EPA 7199	81		75-125			0.75 J	0.26 J	96* (1)	20
Batch number: 11269039403A	Sample number(s): 6412108-6412111,6412114,6412117-6412121 BKG: 6412111								
17a pH by 9045C						7.13	7.15	0	3

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267306
Reported: 10/20/11 at 11:55 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11269039403B	Sample number(s): 6412122-6412131 BKG: 6412131								
17a pH by 9045C						7.45	7.41	1	3
Batch number: 11270162401A	Sample number(s): 6412109,6412111-6412115,6412118-6412119,6412121,6412123-6412125,6412128-6412131 BKG: 6412111								
28a Moisture Content by 160.3						0.83	0.92	10 (1)	20
Moisture Content by 160.3						0.83	0.92	10 (1)	20
Moisture Content by 160.3						0.83	0.92	10 (1)	20
Batch number: 11272162401B	Sample number(s): 6412108,6412110,6412117,6412120,6412122,6412126-6412127 BKG: 6412126								
Moisture Content by 160.3						6.6	7.0	5	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 21a NDMA by 1625C
Batch number: 11265SLB026

	N-Nitrosodimethylamine-d6
6412108	122
6412110	129
6412117	130
6412118	130
6412120	129
6412122	125
6412126	121
6412127	138
Blank	74
LCS	79
MS	193*
MSD	170*
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11267SLD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6412108	85	75	78
6412109	109	92	100
6412110	100	93	135
6412111	97	93	96
6412112	106	92	95
6412113	114	99	101
6412117	95	89	114
6412118	90	81	93

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267306
Reported: 10/20/11 at 11:55 AM

Surrogate Quality Control

6412119	110	93	107
6412120	100	82	84
6412121	101	88	87
6412122	100	88	91
6412123	101	90	93
6412124	95	84	90
6412125	99	89	91
6412126	98	89	92
6412127	93	83	91
6412128	94	85	91
6412129	99	89	92
6412130	99	89	94
6412131	99	90	93
Blank	96	90	92
LCS	103	90	92
MS	106	92	95
MSD	114	99	101
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11267SLH026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6412108	96	99	93	89	91	88
6412109	80	85	79	79	83	72
6412110	77	81	63	70	71	65
6412111	103	108	89	89	95	83
6412112	104	110	92	95	98	86
6412113	106	110	91	92	97	89
6412117	102	105	77	88	93	85
6412118	96	102	84	90	97	85
6412119	89	94	76	84	90	78
6412120	88	94	80	87	94	81
6412121	87	95	78	89	94	82
6412122	74	80	68	76	83	69
6412123	87	94	71	80	87	72
6412124	87	91	73	81	88	77
6412125	80	86	76	80	85	78
6412126	89	94	84	84	92	89
6412127	90	96	84	86	94	87
6412128	88	94	77	83	90	87
6412129	80	83	71	77	82	80
6412130	84	89	69	80	84	78
6412131	85	90	67	78	83	78
Blank	95	103	92	93	95	88
LCS	102	109	100	99	98	90
MS	104	110	92	95	98	86
MSD	106	110	91	92	97	89
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11265A34A

	Trifluorotoluene-F
6412126	91
6412127	87

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267306
Reported: 10/20/11 at 11:55 AM

Surrogate Quality Control

Blank	91
LCS	87
LCSD	96
MS	93
MSD	90
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11272B20A

	Trifluorotoluene-F
6412132	90
Blank	89
LCS	116
LCSD	114
Limits:	63-135

Analysis Name: 15a Energetics by 8330A
Batch number: 112640025A

	2-Nitro-m-xylene
6412108	118
6412110	119
6412117	117
6412120	160*
6412122	112
6412126	119
6412127	109
Blank	114
LCS	115
LCSD	134
MS	108
MSD	109
Limits:	80-146

Analysis Name: 20a Formaldehyde 8315A
Batch number: 112670007A

	Butyraldehyde
6412108	91
6412110	95
6412117	98
6412118	93
6412120	91
6412122	94
6412126	96
6412127	96
Blank	95
LCS	93
MS	90
MSD	96
Limits:	64-126

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267306
Reported: 10/20/11 at 11:55 AM

Surrogate Quality Control

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112670023A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6412108	118	91
6412109	90	345*
6412110	83	104
6412115	102	79
6412116	99	81
6412117	122	108
6412118	84	73
6412119	101	113
6412122	83	80
6412123	108	81
6412124	117	113
6412125	119	117
6412126	128	124*
6412127	118	114
6412128	121	117
6412129	117	123*
6412130	114	119
Blank	121	117
LCS	125	123*
LCSD	107	109
MS	96	71
MSD	114	83
Limits:	53-139	45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 112670033A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6412108	70	107
6412109	78	132*
6412110	59	773*
6412111	79	114
6412112	71	81
6412113	76	93
6412115	83	94
6412116	55	95
6412117	62	144*
6412118	78	104
6412119	59	84
6412120	70	391*
6412121	99	85
6412122	69	183*
6412123	74	88
Blank	51	134*
LCS	56	126*
MS	71	81
MSD	76	93
Limits:	50-130	20-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 112670048A

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267306
Reported: 10/20/11 at 11:55 AM

Surrogate Quality Control

	2,4-Dichlorophenylacetic acid
6412108	109
6412109	143
6412110	95
6412111	86
6412112	111
6412113	120
6412115	80
6412116	89
6412117	76
6412118	108
6412119	112
6412120	138
6412121	94
6412122	63
6412123	116
Blank	86
LCS	98
MS	111
MSD	120
Limits:	36-156

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112730025A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6412111	95	69
6412112	73	55
6412113	102	77
6412120	71	80
6412121	108	123*
6412131	105	97
Blank	102	105
LCS	103	105
LCSD	117	127*
MS	73	55
MSD	102	77
Limits:	53-139	45-120

Analysis Name: 19a Glycols by 8015B
Batch number: 112640014A

	Tetramethylene glycol
6412108	63
6412109	68
6412110	59
6412117	64
6412118	69
6412120	59
6412121	60
6412122	61
6412126	70
6412127	68

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Quality Control Summary

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Reported: 10/20/11 at 11:55 AM

Surrogate Quality Control

Blank	82
LCS	85
MS	62
MSD	64
Limits:	29-137

Analysis Name: 18a Alcohols by 8015B
Batch number: 112640035A

	Acetone
6412108	99
6412109	79
6412110	107
6412117	114
6412118	79
6412120	112
6412121	73
6412122	84
6412126	102
6412127	99
Blank	99
LCS	94
MS	106
MSD	107
Limits:	42-138

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112660005A

	Chlorobenzene	Orthoterphenyl
6412108	73	87
6412109	99	103
6412110	88	116
6412117	89	105
6412118	76	95
6412120	84	104
6412121	73	90
6412122	93	100
6412126	76	89
6412127	69	89
Blank	83	95
LCS	84	101
MS	98	117
MSD	87	127
Limits:	37-125	47-145

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112670016A

	n-Triacontane-d62
6412108	66
6412109	109
6412110	110
6412117	58

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267306
Reported: 10/20/11 at 11:55 AM

Surrogate Quality Control

6412118	103
6412120	116
6412121	89
6412122	47
6412126	91
6412127	61
Blank	50
LCS	55
MS	68
MSD	60
Limits:	19-152

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

accr# 13013 Cyp# 1267306 Sample# 6412105-32

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 8 (SA8) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-002-SA7-SS-0.0-0.5	09.19.11	1020	SOIL	NONE	1-SS Sleeve			X	X																		
SL-002-SA7-SS-0.0-0.5	09.19.11	1020	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-003-SA7-SS-0.0-0.5	09.19.11	1120	SOIL	NONE	1-SS Sleeve			X	X																		
SL-003-SA7-SS-0.0-0.5	09.19.11	1120	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-004-SA7-SS-0.0-0.5	09.19.11	1525	SOIL	NONE	1-SS Sleeve			X	X																		
SL-004-SA7-SS-0.0-0.5	09.19.11	1525	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-042-SA7-SS-0.0-0.5MS	09.19.11	0905	SOIL	NONE	2-SS Sleeve			X	X																		MS/MSD
SL-042-SA7-SS-0.0-0.5MS	09.19.11	0905	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X											MS/MSD
SL-048-SA7-SS-0.0-0.5	09.19.11	0955	SOIL	NONE	1-SS Sleeve			X	X																		
SL-048-SA7-SS-0.0-0.5	09.19.11	0955	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-110-SA7-SS-0.0-0.5	09.19.11	0840	SOIL	NONE	1-SS Sleeve																						
SL-110-SA7-SS-0.0-0.5	09.19.11	0840	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X	X	X	X			X	X	X	X	
SL-111-SA7-SS-0.0-0.5	09.19.11	1455	SOIL	NONE	1-SS Sleeve																						
SL-111-SA7-SS-0.0-0.5	09.19.11	1455	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											
SL-122-SA7-SS-0.0-0.5	09.19.11	1100	SOIL	NONE	1-SS Sleeve			X	X																		
SL-122-SA7-SS-0.0-0.5	09.19.11	1100	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-130-SA7-SS-0.0-0.5	09.19.11	1140	SOIL	NONE	1-SS Sleeve			X	X																		
SL-130-SA7-SS-0.0-0.5	09.19.11	1140	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-133-SA7-SS-0.0-0.5	09.19.11	0935	SOIL	NONE	1-SS Sleeve			X	X																		
SL-133-SA7-SS-0.0-0.5	09.19.11	0935	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
DUP02-SA7-QC-091911	09.19.11	0905	SOIL	NONE	1-SS Sleeve			X	X																		
DUP02-SA7-QC-091911	09.19.11	0905	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	
	09/19/2011 / 1600	2316	9/20/11 0910
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8754 3341 5831,5842,5853	

Laboratory:
Lancaster Laboratories, Inc.

acct#13013 Cap#1267306 sampo#6412108-32

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subares 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures: Lee Tetlow

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-025-SA7-SB-4.0-5.0	09.19.11	1448	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-025-SA7-SB-9.0-10.0	09.19.11	1451	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-032-SA7-SB-4.5	09.19.11	0846	SOIL	NONE	2-Encores										X											
SL-032-SA7-SB-4.0-5.0	09.19.11	0847	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X	
SL-032-SA7-SB-9.5	09.19.11	0852	SOIL	NONE	2-Encores										X											
SL-032-SA7-SB-9.0-10.0	09.19.11	0853	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X	
SL-144-SA7-SB-4.0-5.0	09.19.11	1125	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-144-SA7-SB-9.0-10.0	09.19.11	1128	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SI-145-SA7-SB-4.0-5.0	09.19.11	1240	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-145-SA7-SB-9.0-10.0	09.19.11	1243	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
TB-091911	09.19.11	0800	WATER	NONE	2-10ml vials										X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	09/19/2011 / 1600	LLE 9/20/11 0910	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8754 3341 5831,5842,5853	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 10, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/20/2011
Group Number: 1267310
SDG: DX137
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-002-SA7-SS-0.0-0.5 Soil	6412177
SL-003-SA7-SS-0.0-0.5 Soil	6412178
SL-004-SA7-SS-0.0-0.5 Soil	6412179
SL-042-SA7-SS-0.0-0.5 Soil	6412180
SL-042-SA7-SS-0.0-0.5MS Soil	6412181
SL-042-SA7-SS-0.0-0.5MSD Soil	6412182
SL-048-SA7-SS-0.0-0.5 Soil	6412183
SL-110-SA7-SS-0.0-0.5 Soil	6412184
SL-111-SA7-SS-0.0-0.5 Soil	6412185
SL-122-SA7-SS-0.0-0.5 Soil	6412186
SL-130-SA7-SS-0.0-0.5 Soil	6412187
SL-133-SA7-SS-0.0-0.5 Soil	6412188

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-002-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA7-SS-0.0-0.5

LLI Sample # SW 6412177
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 10:20

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3712 SDG#: DX137-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-002-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA7-SS-0.0-0.5

LLI Sample # SW 6412177
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 10:20

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3712 SDG#: DX137-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.103	JQ	0.0573	0.989	1
11031	12378-PeCDD	40321-76-4	0.628	JBQ	0.0590	4.95	1
11031	123478-HxCDD	39227-28-6	1.10	JB	0.0716	4.95	1
11031	123678-HxCDD	57653-85-7	4.03	J	0.0734	4.95	1
11031	123789-HxCDD	19408-74-3	2.37	J	0.0642	4.95	1
11031	1234678-HpCDD	35822-46-9	95.5	B	0.122	4.95	1
11031	OCDD	3268-87-9	1,080	B	0.119	9.89	1
11031	2378-TCDF	51207-31-9	0.117	J	0.0610	0.989	1
11031	12378-PeCDF	57117-41-6	0.293	JB	0.0390	4.95	1
11031	23478-PeCDF	57117-31-4	0.392	JB	0.0339	4.95	1
11031	123478-HxCDF	70648-26-9	0.633	JB	0.0466	4.95	1
11031	123678-HxCDF	57117-44-9	0.606	JB	0.0446	4.95	1
11031	123789-HxCDF	72918-21-9	0.144	JB	0.0440	4.95	1
11031	234678-HxCDF	60851-34-5	1.09	JB	0.0414	4.95	1
11031	1234678-HpCDF	67562-39-4	13.7	B	0.0454	4.95	1
11031	1234789-HpCDF	55673-89-7	1.18	J	0.0580	4.95	1
11031	OCDF	39001-02-0	31.4	B	0.0531	9.89	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	92	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	93	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	83	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-002-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA7-SS-0.0-0.5

LLI Sample # SW 6412177
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 10:20

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3712 SDG#: DX137-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-002-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-002-SA7-SS-0.0-0.5

LLI Sample # SW 6412177
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 10:20

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3712 SDG#: DX137-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11271001	10/01/2011 09:12	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11271001	09/28/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11272162401B	09/29/2011 21:46	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-003-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA7-SS-0.0-0.5

LLI Sample # SW 6412178
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:20

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3713 SDG#: DX137-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-003-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA7-SS-0.0-0.5

LLI Sample # SW 6412178
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:20

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3713 SDG#: DX137-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	1.13	0.0952	1.01	1
11031	12378-PeCDD	40321-76-4	14.5 B	0.163	5.05	1
11031	123478-HxCDD	39227-28-6	29.5 B	0.202	5.05	1
11031	123678-HxCDD	57653-85-7	114	0.190	5.05	1
11031	123789-HxCDD	19408-74-3	60.0	0.192	5.05	1
11031	1234678-HpCDD	35822-46-9	2,580 EB	0.410	5.05	1
11031	OCDD	3268-87-9	26,800 EB	0.389	10.1	1
11650	2378-TCDF-Conf	51207-31-9	1.57 C	0.152	1.01	1
11031	12378-PeCDF	57117-41-6	2.72 JB	0.101	5.05	1
11031	23478-PeCDF	57117-31-4	5.54 B	0.0924	5.05	1
11031	123478-HxCDF	70648-26-9	12.3 B	0.122	5.05	1
11031	123678-HxCDF	57117-44-9	15.0 B	0.122	5.05	1
11031	123789-HxCDF	72918-21-9	3.06 JB	0.122	5.05	1
11031	234678-HxCDF	60851-34-5	28.2 B	0.119	5.05	1
11031	1234678-HpCDF	67562-39-4	329 B	0.135	5.05	1
11031	1234789-HpCDF	55673-89-7	31.1	0.166	5.05	1
11031	OCDF	39001-02-0	679 B	0.0919	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-2378-TCDF-Conf	67	24 - 169
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	98	17 - 157
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	82	26 - 138
13C12-OCDF	87	17 - 157

*=This limit was used in the evaluation of the final result

Sample Description: **SL-003-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA7-SS-0.0-0.5

LLI Sample # SW 6412178
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:20

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3713 SDG#: DX137-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-003-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA7-SS-0.0-0.5

LLI Sample # SW 6412178
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:20

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3713 SDG#: DX137-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11271001	10/01/2011 10:09	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11271001	10/04/2011 01:16	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11271001	09/28/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11270162401A	09/27/2011 20:58	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-004-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA7-SS-0.0-0.5

LLI Sample # SW 6412179
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 15:25

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3714 SDG#: DX137-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.79	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-004-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA7-SS-0.0-0.5

LLI Sample # SW 6412179
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 15:25

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3714 SDG#: DX137-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0840	U	0.0840	1.00	1
11031	12378-PeCDD	40321-76-4	3.49	JB	0.137	5.02	1
11031	123478-HxCDD	39227-28-6	5.32	B	0.123	5.02	1
11031	123678-HxCDD	57653-85-7	18.7		0.123	5.02	1
11031	123789-HxCDD	19408-74-3	11.0		0.109	5.02	1
11031	1234678-HpCDD	35822-46-9	515	B	0.259	5.02	1
11031	OCDD	3268-87-9	4,780	EB	0.273	10.0	1
11650	2378-TCDF-Conf	51207-31-9	0.625	JC	0.181	1.00	1
11031	12378-PeCDF	57117-41-6	1.45	JB	0.121	5.02	1
11031	23478-PeCDF	57117-31-4	0.106	U	0.106	5.02	1
11031	123478-HxCDF	70648-26-9	2.95	JB	0.0871	5.02	1
11031	123678-HxCDF	57117-44-9	2.28	JB	0.0830	5.02	1
11031	123789-HxCDF	72918-21-9	0.684	JBQ	0.0794	5.02	1
11031	234678-HxCDF	60851-34-5	2.73	JB	0.0783	5.02	1
11031	1234678-HpCDF	67562-39-4	48.1	B	0.0868	5.02	1
11031	1234789-HpCDF	55673-89-7	3.75	J	0.101	5.02	1
11031	OCDF	39001-02-0	125	B	0.0831	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-2378-TCDF-Conf	62	24 - 169
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	87	17 - 157
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	78	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-004-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA7-SS-0.0-0.5

LLI Sample # SW 6412179
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 15:25

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3714 SDG#: DX137-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-004-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-004-SA7-SS-0.0-0.5

LLI Sample # SW 6412179
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 15:25

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3714 SDG#: DX137-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11271001	10/01/2011 11:06	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11271001	10/04/2011 02:22	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11271001	09/28/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11272162401B	09/29/2011 21:46	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-042-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA7-SS-0.0-0.5

LLI Sample # SW 6412180
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3715 SDG#: DX137-15BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.83	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-042-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA7-SS-0.0-0.5

LLI Sample # SW 6412180
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3715 SDG#: DX137-15BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0448	U	0.0448	0.991	1
11031	12378-PeCDD	40321-76-4	0.150	JB	0.0413	4.95	1
11031	123478-HxCDD	39227-28-6	0.250	JB	0.0506	4.95	1
11031	123678-HxCDD	57653-85-7	0.690	J	0.0498	4.95	1
11031	123789-HxCDD	19408-74-3	0.512	J	0.0432	4.95	1
11031	1234678-HpCDD	35822-46-9	20.0	B	0.0703	4.95	1
11031	OCDD	3268-87-9	233	B	0.0836	9.91	1
11031	2378-TCDF	51207-31-9	0.0383	U	0.0383	0.991	1
11031	12378-PeCDF	57117-41-6	0.0952	JBQ	0.0229	4.95	1
11031	23478-PeCDF	57117-31-4	0.181	JBQ	0.0211	4.95	1
11031	123478-HxCDF	70648-26-9	0.342	JB	0.0300	4.95	1
11031	123678-HxCDF	57117-44-9	0.245	JB	0.0293	4.95	1
11031	123789-HxCDF	72918-21-9	0.145	JB	0.0305	4.95	1
11031	234678-HxCDF	60851-34-5	0.185	JB	0.0283	4.95	1
11031	1234678-HpCDF	67562-39-4	3.08	JB	0.0305	4.95	1
11031	1234789-HpCDF	55673-89-7	0.331	J	0.0394	4.95	1
11031	OCDF	39001-02-0	6.64	JB	0.0414	9.91	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	75	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-042-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA7-SS-0.0-0.5

LLI Sample # SW 6412180
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3715 SDG#: DX137-15BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-042-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA7-SS-0.0-0.5

LLI Sample # SW 6412180
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3715 SDG#: DX137-15BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11271001	10/01/2011 12:02	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11271001	09/28/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11270162401A	09/27/2011 20:58	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-042-SA7-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA7-SS-0.0-0.5

LLI Sample # SW 6412181
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3715 SDG#: DX137-15MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.83	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-042-SA7-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA7-SS-0.0-0.5

LLI Sample # SW 6412181
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3715 SDG#: DX137-15MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	20.4		0.0731	1.01	1
11031	12378-PeCDD	40321-76-4	103	B	0.0578	5.03	1
11031	123478-HxCDD	39227-28-6	103	B	0.0799	5.03	1
11031	123678-HxCDD	57653-85-7	98.6		0.0792	5.03	1
11031	123789-HxCDD	19408-74-3	101		0.0745	5.03	1
11031	1234678-HpCDD	35822-46-9	129	B	0.101	5.03	1
11031	OCDD	3268-87-9	529	B	0.100	10.1	1
11031	2378-TCDF	51207-31-9	18.8		0.0633	1.01	1
11031	12378-PeCDF	57117-41-6	99.9	B	0.0404	5.03	1
11031	23478-PeCDF	57117-31-4	97.6	B	0.0374	5.03	1
11031	123478-HxCDF	70648-26-9	99.1	B	0.104	5.03	1
11031	123678-HxCDF	57117-44-9	98.8	B	0.0948	5.03	1
11031	123789-HxCDF	72918-21-9	98.3	B	0.0834	5.03	1
11031	234678-HxCDF	60851-34-5	99.2	B	0.0808	5.03	1
11031	1234678-HpCDF	67562-39-4	102	B	0.0756	5.03	1
11031	1234789-HpCDF	55673-89-7	97.9		0.0872	5.03	1
11031	OCDF	39001-02-0	207	B	0.0845	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	74	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-042-SA7-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA7-SS-0.0-0.5

LLI Sample # SW 6412181
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3715 SDG#: DX137-15MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-042-SA7-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA7-SS-0.0-0.5

LLI Sample # SW 6412181
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3715 SDG#: DX137-15MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11271001	10/01/2011 12:59	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11271001	09/28/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11270162401A	09/27/2011 20:58	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-042-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA7-SS-0.0-0.5

LLI Sample # SW 6412182
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3715 SDG#: DX137-15MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.83	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-042-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA7-SS-0.0-0.5

LLI Sample # SW 6412182
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3715 SDG#: DX137-15MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	20.8		0.0717	1.01	1
11031	12378-PeCDD	40321-76-4	105	B	0.0754	5.04	1
11031	123478-HxCDD	39227-28-6	102	B	0.0885	5.04	1
11031	123678-HxCDD	57653-85-7	99.7		0.0874	5.04	1
11031	123789-HxCDD	19408-74-3	101		0.0770	5.04	1
11031	1234678-HpCDD	35822-46-9	125	B	0.104	5.04	1
11031	OCDD	3268-87-9	480	B	0.113	10.1	1
11031	2378-TCDF	51207-31-9	19.3		0.0690	1.01	1
11031	12378-PeCDF	57117-41-6	102	B	0.0475	5.04	1
11031	23478-PeCDF	57117-31-4	98.6	B	0.0456	5.04	1
11031	123478-HxCDF	70648-26-9	97.9	B	0.0749	5.04	1
11031	123678-HxCDF	57117-44-9	99.5	B	0.0706	5.04	1
11031	123789-HxCDF	72918-21-9	101	B	0.0723	5.04	1
11031	234678-HxCDF	60851-34-5	100	B	0.0671	5.04	1
11031	1234678-HpCDF	67562-39-4	101	B	0.0656	5.04	1
11031	1234789-HpCDF	55673-89-7	98.3		0.0861	5.04	1
11031	OCDF	39001-02-0	206	B	0.0768	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	77	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-042-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA7-SS-0.0-0.5

LLI Sample # SW 6412182
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3715 SDG#: DX137-15MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-042-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-042-SA7-SS-0.0-0.5

LLI Sample # SW 6412182
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3715 SDG#: DX137-15MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11271001	10/01/2011 13:55	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11271001	09/28/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11270162401A	09/27/2011 20:58	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-048-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA7-SS-0.0-0.5

LLI Sample # SW 6412183
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:55

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X3716 SDG#: DX137-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.68	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-048-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA7-SS-0.0-0.5

LLI Sample # SW 6412183
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:55

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3716 SDG#: DX137-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0571	U	0.0571	1.01	1
11031	12378-PeCDD	40321-76-4	0.645	JB	0.0588	5.03	1
11031	123478-HxCDD	39227-28-6	0.968	JB	0.0816	5.03	1
11031	123678-HxCDD	57653-85-7	3.11	J	0.0789	5.03	1
11031	123789-HxCDD	19408-74-3	1.65	J	0.0723	5.03	1
11031	1234678-HpCDD	35822-46-9	96.9	B	0.129	5.03	1
11031	OCDD	3268-87-9	1,290	B	0.151	10.1	1
11031	2378-TCDF	51207-31-9	0.283	JQ	0.0821	1.01	1
11031	12378-PeCDF	57117-41-6	0.514	JB	0.0674	5.03	1
11031	23478-PeCDF	57117-31-4	0.434	JB	0.0594	5.03	1
11031	123478-HxCDF	70648-26-9	0.841	JB	0.0518	5.03	1
11031	123678-HxCDF	57117-44-9	0.635	JB	0.0500	5.03	1
11031	123789-HxCDF	72918-21-9	0.294	JB	0.0489	5.03	1
11031	234678-HxCDF	60851-34-5	0.831	JB	0.0467	5.03	1
11031	1234678-HpCDF	67562-39-4	10.0	B	0.0564	5.03	1
11031	1234789-HpCDF	55673-89-7	1.18	J	0.0688	5.03	1
11031	OCDF	39001-02-0	21.3	B	0.0558	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	96	25 - 164
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	94	32 - 141
13C12-123678-HxCDD	99	28 - 130
13C12-123789-HxCDD	102	28 - 130
13C12-1234678-HpCDD	105	23 - 140
13C12-OCDD	105	17 - 157
13C12-2378-TCDF	94	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	92	21 - 178
13C12-123478-HxCDF	84	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	89	28 - 136
13C12-123789-HxCDF	99	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	94	26 - 138
13C12-OCDF	95	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-048-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA7-SS-0.0-0.5

LLI Sample # SW 6412183
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:55

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3716 SDG#: DX137-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-048-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA7-SS-0.0-0.5

LLI Sample # SW 6412183
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:55

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3716 SDG#: DX137-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11271001	10/01/2011 14:52	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11271001	09/28/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11272162401B	09/29/2011 21:46	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-110-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-110-SA7-SS-0.0-0.5

LLI Sample # SW 6412184
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 08:40

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3717 SDG#: DX137-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-110-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-110-SA7-SS-0.0-0.5

LLI Sample # SW 6412184
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 08:40

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3717 SDG#: DX137-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0678	U	0.0678	1.01	1
11031	12378-PeCDD	40321-76-4	0.978	JB	0.0740	5.04	1
11031	123478-HxCDD	39227-28-6	1.75	JB	0.0953	5.04	1
11031	123678-HxCDD	57653-85-7	4.90	J	0.0906	5.04	1
11031	123789-HxCDD	19408-74-3	3.38	J	0.0865	5.04	1
11031	1234678-HpCDD	35822-46-9	155	B	0.179	5.04	1
11031	OCDD	3268-87-9	1,650	B	0.158	10.1	1
11031	2378-TCDF	51207-31-9	0.313	J	0.0962	1.01	1
11031	12378-PeCDF	57117-41-6	0.248	JB	0.0598	5.04	1
11031	23478-PeCDF	57117-31-4	0.0563	U	0.0563	5.04	1
11031	123478-HxCDF	70648-26-9	1.30	JB	0.0674	5.04	1
11031	123678-HxCDF	57117-44-9	0.952	JB	0.0616	5.04	1
11031	123789-HxCDF	72918-21-9	0.309	JB	0.0594	5.04	1
11031	234678-HxCDF	60851-34-5	1.24	JB	0.0558	5.04	1
11031	1234678-HpCDF	67562-39-4	21.4	B	0.0650	5.04	1
11031	1234789-HpCDF	55673-89-7	1.61	J	0.0767	5.04	1
11031	OCDF	39001-02-0	49.8	B	0.0727	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	74	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-110-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-110-SA7-SS-0.0-0.5

LLI Sample # SW 6412184
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 08:40

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3717 SDG#: DX137-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-110-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-110-SA7-SS-0.0-0.5

LLI Sample # SW 6412184
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 08:40

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3717 SDG#: DX137-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11271001	10/01/2011 15:49	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11271001	09/28/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11270162401A	09/27/2011 20:58	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-111-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-111-SA7-SS-0.0-0.5

LLI Sample # SW 6412185
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:55

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3718 SDG#: DX137-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-111-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-111-SA7-SS-0.0-0.5

LLI Sample # SW 6412185
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:55

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3718 SDG#: DX137-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.339	J	0.0735	1.01	1
11031	12378-PeCDD	40321-76-4	2.72	JB	0.112	5.07	1
11031	123478-HxCDD	39227-28-6	5.78	B	0.106	5.07	1
11031	123678-HxCDD	57653-85-7	15.9		0.110	5.07	1
11031	123789-HxCDD	19408-74-3	10.1		0.100	5.07	1
11031	1234678-HpCDD	35822-46-9	398	B	0.207	5.07	1
11031	OCDD	3268-87-9	3,480	B	0.214	10.1	1
11031	2378-TCDF	51207-31-9	0.740	J	0.113	1.01	1
11031	12378-PeCDF	57117-41-6	0.945	JB	0.0730	5.07	1
11031	23478-PeCDF	57117-31-4	1.34	JB	0.0693	5.07	1
11031	123478-HxCDF	70648-26-9	3.31	JB	0.0724	5.07	1
11031	123678-HxCDF	57117-44-9	2.98	JB	0.0678	5.07	1
11031	123789-HxCDF	72918-21-9	1.17	JBQ	0.0721	5.07	1
11031	234678-HxCDF	60851-34-5	3.10	JB	0.0646	5.07	1
11031	1234678-HpCDF	67562-39-4	53.6	B	0.0668	5.07	1
11031	1234789-HpCDF	55673-89-7	4.48	J	0.0844	5.07	1
11031	OCDF	39001-02-0	102	B	0.0694	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	95	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	82	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-111-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-111-SA7-SS-0.0-0.5

LLI Sample # SW 6412185
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:55

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3718 SDG#: DX137-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-111-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-111-SA7-SS-0.0-0.5

LLI Sample # SW 6412185
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:55

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3718 SDG#: DX137-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11271001	10/01/2011 21:41	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11271001	09/28/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11270162401A	09/27/2011 20:58	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-122-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-122-SA7-SS-0.0-0.5

LLI Sample # SW 6412186
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:00

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3719 SDG#: DX137-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-122-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA7-SS-0.0-0.5

LLI Sample # SW 6412186
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:00

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3719 SDG#: DX137-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	1.08	0.163	1.00	1
11031	12378-PeCDD	40321-76-4	8.79 B	0.236	5.00	1
11031	123478-HxCDD	39227-28-6	19.9 B	0.199	5.00	1
11031	123678-HxCDD	57653-85-7	55.6	0.199	5.00	1
11031	123789-HxCDD	19408-74-3	32.9	0.166	5.00	1
11031	1234678-HpCDD	35822-46-9	1,290 B	0.478	5.00	1
11031	OCDD	3268-87-9	11,000 EB	0.529	10.0	1
11650	2378-TCDF-Conf	51207-31-9	1.24 C	0.0765	1.00	1
11031	12378-PeCDF	57117-41-6	2.62 JB	0.127	5.00	1
11031	23478-PeCDF	57117-31-4	4.11 JB	0.121	5.00	1
11031	123478-HxCDF	70648-26-9	12.4 B	0.192	5.00	1
11031	123678-HxCDF	57117-44-9	14.7 B	0.181	5.00	1
11031	123789-HxCDF	72918-21-9	4.04 JB	0.172	5.00	1
11031	234678-HxCDF	60851-34-5	12.6 B	0.168	5.00	1
11031	1234678-HpCDF	67562-39-4	256 B	0.157	5.00	1
11031	1234789-HpCDF	55673-89-7	17.6	0.198	5.00	1
11031	OCDF	39001-02-0	472 B	0.151	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-2378-TCDF-Conf	69	24 - 169
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	97	28 - 130
13C12-1234678-HpCDD	94	23 - 140
13C12-OCDD	100	17 - 157
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	83	17 - 157

*=This limit was used in the evaluation of the final result

Sample Description: **SL-122-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-122-SA7-SS-0.0-0.5

LLI Sample # SW 6412186
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:00

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3719 SDG#: DX137-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: SL-122-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-122-SA7-SS-0.0-0.5

LLI Sample # SW 6412186
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:00

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3719 SDG#: DX137-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11271001	10/01/2011 22:38	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11271001	10/04/2011 03:28	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11271001	09/28/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11272162401B	09/29/2011 21:46	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-130-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-130-SA7-SS-0.0-0.5

LLI Sample # SW 6412187
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:40

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3720 SDG#: DX137-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.82	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-130-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-130-SA7-SS-0.0-0.5

LLI Sample # SW 6412187
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:40

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X3720 SDG#: DX137-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.107	J	0.0584	0.998	1
11031	12378-PeCDD	40321-76-4	1.91	JB	0.0832	4.99	1
11031	123478-HxCDD	39227-28-6	4.08	JB	0.102	4.99	1
11031	123678-HxCDD	57653-85-7	14.0		0.101	4.99	1
11031	123789-HxCDD	19408-74-3	7.64		0.0920	4.99	1
11031	1234678-HpCDD	35822-46-9	506	B	0.254	4.99	1
11031	OCDD	3268-87-9	5,980	EB	0.226	9.98	1
11031	2378-TCDF	51207-31-9	0.709	J	0.102	0.998	1
11031	12378-PeCDF	57117-41-6	0.436	JB	0.0771	4.99	1
11031	23478-PeCDF	57117-31-4	1.35	JB	0.0709	4.99	1
11031	123478-HxCDF	70648-26-9	2.79	JB	0.0800	4.99	1
11031	123678-HxCDF	57117-44-9	2.13	JB	0.0781	4.99	1
11031	123789-HxCDF	72918-21-9	0.612	JB	0.0726	4.99	1
11031	234678-HxCDF	60851-34-5	3.35	JB	0.0693	4.99	1
11031	1234678-HpCDF	67562-39-4	43.2	B	0.0805	4.99	1
11031	1234789-HpCDF	55673-89-7	4.86	J	0.0979	4.99	1
11031	OCDF	39001-02-0	92.0	B	0.0601	9.98	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	95	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	94	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	81	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-130-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-130-SA7-SS-0.0-0.5

LLI Sample # SW 6412187
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:40

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3720 SDG#: DX137-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-130-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-130-SA7-SS-0.0-0.5

LLI Sample # SW 6412187
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:40

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3720 SDG#: DX137-20

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11271001	10/01/2011 23:34	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11271001	09/28/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11270162401A	09/27/2011 20:58	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-133-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA7-SS-0.0-0.5

LLI Sample # SW 6412188
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:35

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3721 SDG#: DX137-21*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-133-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA7-SS-0.0-0.5

LLI Sample # SW 6412188
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:35

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3721 SDG#: DX137-21*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.299	J	0.0831	1.02	1
11031	12378-PeCDD	40321-76-4	2.11	JB	0.0974	5.11	1
11031	123478-HxCDD	39227-28-6	5.19	B	0.115	5.11	1
11031	123678-HxCDD	57653-85-7	17.8		0.110	5.11	1
11031	123789-HxCDD	19408-74-3	9.15		0.104	5.11	1
11031	1234678-HpCDD	35822-46-9	533	B	0.330	5.11	1
11031	OCDD	3268-87-9	5,470	EB	0.282	10.2	1
11031	2378-TCDF	51207-31-9	0.546	J	0.0962	1.02	1
11031	12378-PeCDF	57117-41-6	0.870	JB	0.0558	5.11	1
11031	23478-PeCDF	57117-31-4	1.97	JB	0.0516	5.11	1
11031	123478-HxCDF	70648-26-9	5.75	B	0.126	5.11	1
11031	123678-HxCDF	57117-44-9	4.28	JB	0.108	5.11	1
11031	123789-HxCDF	72918-21-9	2.26	JB	0.0791	5.11	1
11031	234678-HxCDF	60851-34-5	4.49	JB	0.0778	5.11	1
11031	1234678-HpCDF	67562-39-4	101	B	0.130	5.11	1
11031	1234789-HpCDF	55673-89-7	7.57		0.129	5.11	1
11031	OCDF	39001-02-0	176	B	0.101	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	45	26 - 152
13C12-123678-HxCDF	52	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	58	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	70	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-133-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA7-SS-0.0-0.5

LLI Sample # SW 6412188
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:35

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3721 SDG#: DX137-21*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-133-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-133-SA7-SS-0.0-0.5

LLI Sample # SW 6412188
LLI Group # 1267310
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:35

Submitted: 09/20/2011 09:10
Reported: 10/10/2011 07:42

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3721 SDG#: DX137-21*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11271001	10/02/2011 00:31	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11271001	09/28/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11272162401B	09/29/2011 21:46	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267310
Reported: 10/10/11 at 07:42 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11270162401A	Sample number(s): 6412178,6412180-6412182,6412184-6412185,6412187									
Moisture Content by 160.3						100		80-120		
Batch number: 11272162401B	Sample number(s): 6412177,6412179,6412183,6412186,6412188									
Moisture Content by 160.3						100		80-120		

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11271001	Sample number(s): 6412177-6412188									
2378-TCDD	0.114	U	0.114	1.00	ng/kg	106		67-158		
12378-PeCDD	0.0795	J	0.0669	5.00	ng/kg	103		70-142		
123478-HxCDD	0.0466	J	0.0419	5.00	ng/kg	103		70-164		
123678-HxCDD	0.0418	U	0.0418	5.00	ng/kg	99		76-134		
123789-HxCDD	0.0388	U	0.0388	5.00	ng/kg	99		64-162		
1234678-HpCDD	0.326	J	0.0547	5.00	ng/kg	100		70-140		
OCDD	0.441	J	0.0441	10.0	ng/kg	98		78-144		
2378-TCDF	0.0754	U	0.0754	1.00	ng/kg	96		75-158		
2378-TCDF-Conf	0.147	U	0.147	1.00	ng/kg	96		75-158		
12378-PeCDF	0.0525	J	0.0378	5.00	ng/kg	100		80-134		
23478-PeCDF	0.0507	J	0.0339	5.00	ng/kg	99		68-160		
123478-HxCDF	0.0552	J	0.0323	5.00	ng/kg	98		72-134		
123678-HxCDF	0.0403	J	0.0288	5.00	ng/kg	98		84-130		
123789-HxCDF	0.0603	J	0.0296	5.00	ng/kg	98		78-130		
234678-HxCDF	0.0638	J	0.0259	5.00	ng/kg	97		70-156		
1234678-HpCDF	0.159	J	0.0197	5.00	ng/kg	96		82-122		
1234789-HpCDF	0.0249	U	0.0249	5.00	ng/kg	99		78-138		
OCDF	0.135	J	0.0596	10.0	ng/kg	97		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11270162401A	Sample number(s): 6412178,6412180-6412182,6412184-6412185,6412187					BKG: P412111			
Moisture Content by 160.3						0.83	0.92	10 (1)	20
Batch number: 11272162401B	Sample number(s): 6412177,6412179,6412183,6412186,6412188					BKG: P412126			
Moisture Content by 160.3						6.6	7.0	5	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267310
Reported: 10/10/11 at 07:42 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11271001	Sample number(s): 6412177-6412188 UNSPK: 6412180								
2378-TCDD	101	103	67-158	2	25				
12378-PeCDD	103	104	70-142	2	25				
123478-HxCDD	102	100	70-164	2	25				
123678-HxCDD	97	98	76-134	1	25				
123789-HxCDD	99	100	64-162	0	25				
1234678-HpCDD	108	104	70-140	3	25				
OCDD	147*	122	78-144	10	25				
2378-TCDF	93	96	75-158	3	25				
2378-TCDF-Conf	93	96	75-158	3	25				
12378-PeCDF	99	101	80-134	2	25				
23478-PeCDF	97	98	68-160	1	25				
123478-HxCDF	98	97	72-134	1	25				
123678-HxCDF	98	98	84-130	1	25				
123789-HxCDF	98	100	78-130	3	25				
234678-HxCDF	98	99	70-156	1	25				
1234678-HpCDF	98	97	82-122	1	25				
1234789-HpCDF	97	97	78-138	0	25				
OCDF	99	99	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11271001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6412177	79	78	73	75	76	86
6412178	82	78	73	74	75	86
6412179	74	74	70	71	72	83
6412180	77	78	71	75	75	83
6412181	78	80	58	63	75	82
6412182	79	78	71	75	76	84
6412183	96	92	84	86	89	99
6412184	81	77	63	70	77	85
6412185	81	74	73	74	76	82
6412186	81	73	72	73	76	86
6412187	82	78	68	70	76	87
6412188	77	76	45	52	73	83
Blank	74	82	67	74	78	83
MS	78	80	58	63	75	82
MSD	79	78	71	75	76	84
OPR	72	79	67	70	81	85
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267310
Reported: 10/10/11 at 07:42 AM

Surrogate Quality Control

6412177	85	80	83	81	82	86
6412178	81	82	87	78	81	87
6412179	77	78	78	75	78	82
6412180	83	78	75	79	79	82
6412181	71	76	74	81	77	84
6412182	85	79	77	80	82	86
6412183	94	94	95	92	94	99
6412184	76	78	74	80	81	89
6412185	80	77	82	76	81	82
6412186	83	80	83	75	83	86
6412187	78	80	81	78	83	87
6412188	58	74	70	77	76	81
Blank	90	84	84	86	85	87
MS	71	76	74	81	77	84
MSD	85	79	77	80	82	86
OPR	87	88	89	82	83	85
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6412177	92	88	93	78	79	
6412178	88	91	98		78	67
6412179	87	86	87		73	62
6412180	90	88	87	77	80	
6412181	88	85	87	78	82	
6412182	88	89	90	78	80	
6412183	102	105	105	94	91	
6412184	90	89	86	81	78	
6412185	83	87	95	79	75	
6412186	97	94	100		74	69
6412187	95	89	94	83	79	
6412188	85	84	82	79	78	
Blank	86	97	101	74	81	64
MS	88	85	87	78	82	78
MSD	88	89	90	78	80	78
OPR	89	98	106	72	79	72
Limits:	28-130	23-140	17-157	24-169	24-185	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

accr# 13013 Gp# 1267310 Sample# GH12177-38

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 8 (SA8) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-002-SA7-SS-0.0-0.5	09.19.11	1020	SOIL	NONE	1-SS Sleeve			X	X																		
SL-002-SA7-SS-0.0-0.5	09.19.11	1020	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-003-SA7-SS-0.0-0.5	09.19.11	1120	SOIL	NONE	1-SS Sleeve			X	X																		
SL-003-SA7-SS-0.0-0.5	09.19.11	1120	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-004-SA7-SS-0.0-0.5	09.19.11	1525	SOIL	NONE	1-SS Sleeve			X	X																		
SL-004-SA7-SS-0.0-0.5	09.19.11	1525	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-042-SA7-SS-0.0-0.5MS	09.19.11	0905	SOIL	NONE	2-SS Sleeve			X	X																		MS/MSD
SL-042-SA7-SS-0.0-0.5MS	09.19.11	0905	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X											MS/MSD
SL-048-SA7-SS-0.0-0.5	09.19.11	0955	SOIL	NONE	1-SS Sleeve			X	X																		
SL-048-SA7-SS-0.0-0.5	09.19.11	0955	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-110-SA7-SS-0.0-0.5	09.19.11	0840	SOIL	NONE	1-SS Sleeve																						
SL-110-SA7-SS-0.0-0.5	09.19.11	0840	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X	X	X	X	X		X	X	X	X	
SL-111-SA7-SS-0.0-0.5	09.19.11	1455	SOIL	NONE	1-SS Sleeve																						
SL-111-SA7-SS-0.0-0.5	09.19.11	1455	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											
SL-122-SA7-SS-0.0-0.5	09.19.11	1100	SOIL	NONE	1-SS Sleeve			X	X																		
SL-122-SA7-SS-0.0-0.5	09.19.11	1100	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-130-SA7-SS-0.0-0.5	09.19.11	1140	SOIL	NONE	1-SS Sleeve			X	X																		
SL-130-SA7-SS-0.0-0.5	09.19.11	1140	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-133-SA7-SS-0.0-0.5	09.19.11	0935	SOIL	NONE	1-SS Sleeve			X	X																		
SL-133-SA7-SS-0.0-0.5	09.19.11	0935	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
DUP02-SA7-QC-091911	09.19.11	0905	SOIL	NONE	1-SS Sleeve			X	X																		
DUP02-SA7-QC-091911	09.19.11	0905	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	
	09/19/2011 / 1600	2316	9/20/11 0910
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8754 3341 5831,5842,5853	

Laboratory:
Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 11, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/20/2011
Group Number: 1267311
SDG: DX138
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
DUP02-SA7-QC-091911 Soil	6412189
SL-025-SA7-SB-4.0-5.0 Soil	6412190
SL-025-SA7-SB-9.0-10.0 Soil	6412191
SL-032-SA7-SB-4.0-5.0 Soil	6412192
SL-032-SA7-SB-9.0-10.0 Soil	6412193
SL-144-SA7-SB-4.0-5.0 Soil	6412194
SL-144-SA7-SB-9.0-10.0 Soil	6412195
SL-145-SA7-SB-4.0-5.0 Soil	6412196
SL-145-SA7-SB-9.0-10.0 Soil	6412197

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **DUP02-SA7-QC-091911 Soil**
SSFL Area IV Collocated Soil Sampling
DUP02-SA7-QC-091911

LLI Sample # SW 6412189
LLI Group # 1267311
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/11/2011 07:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3801 SDG#: DX138-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.90	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP02-SA7-QC-091911 Soil**
SSFL Area IV Collocated Soil Sampling
DUP02-SA7-QC-091911

LLI Sample # SW 6412189
LLI Group # 1267311
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/11/2011 07:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3801 SDG#: DX138-01FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0683	U	0.0683	0.966	1
11031	12378-PeCDD	40321-76-4	0.517	J	0.0660	4.83	1
11031	123478-HxCDD	39227-28-6	0.653	J	0.0768	4.83	1
11031	123678-HxCDD	57653-85-7	1.66	J	0.0720	4.83	1
11031	123789-HxCDD	19408-74-3	1.19	JB	0.0648	4.83	1
11031	1234678-HpCDD	35822-46-9	53.2	B	0.133	4.83	1
11031	OCDD	3268-87-9	591	B	0.137	9.66	1
11031	2378-TCDF	51207-31-9	0.0926	JQ	0.0621	0.966	1
11031	12378-PeCDF	57117-41-6	0.151	J	0.0429	4.83	1
11031	23478-PeCDF	57117-31-4	0.178	JB	0.0410	4.83	1
11031	123478-HxCDF	70648-26-9	0.576	JB	0.0602	4.83	1
11031	123678-HxCDF	57117-44-9	0.402	JB	0.0545	4.83	1
11031	123789-HxCDF	72918-21-9	0.187	JB	0.0646	4.83	1
11031	234678-HxCDF	60851-34-5	0.517	JB	0.0550	4.83	1
11031	1234678-HpCDF	67562-39-4	8.58	B	0.0526	4.83	1
11031	1234789-HpCDF	55673-89-7	0.817	JB	0.0771	4.83	1
11031	OCDF	39001-02-0	19.1	B	0.0824	9.66	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	70	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **DUP02-SA7-QC-091911 Soil**
SSFL Area IV Collocated Soil Sampling
DUP02-SA7-QC-091911

LLI Sample # SW 6412189
LLI Group # 1267311
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/11/2011 07:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3801 SDG#: DX138-01FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP02-SA7-QC-091911 Soil**
SSFL Area IV Collocated Soil Sampling
DUP02-SA7-QC-091911

LLI Sample # SW 6412189
LLI Group # 1267311
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 09:05

Submitted: 09/20/2011 09:10
Reported: 10/11/2011 07:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3801 SDG#: DX138-01FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11272001	10/02/2011 01:27	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11272001	09/29/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11270162401A	09/27/2011 20:58	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-025-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA7-SB-4.0-5.0

LLI Sample # SW 6412190
LLI Group # 1267311
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:48

Submitted: 09/20/2011 09:10
Reported: 10/11/2011 07:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3802 SDG#: DX138-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-025-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA7-SB-4.0-5.0

LLI Sample # SW 6412190
LLI Group # 1267311
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:48

Submitted: 09/20/2011 09:10
Reported: 10/11/2011 07:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3802 SDG#: DX138-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0681	U	0.0681	1.03	1
11031	12378-PeCDD	40321-76-4	0.0472	JQ	0.0421	5.16	1
11031	123478-HxCDD	39227-28-6	0.0335	U	0.0335	5.16	1
11031	123678-HxCDD	57653-85-7	0.101	JQ	0.0327	5.16	1
11031	123789-HxCDD	19408-74-3	0.0436	JB	0.0302	5.16	1
11031	1234678-HpCDD	35822-46-9	0.358	JB	0.0448	5.16	1
11031	OCDD	3268-87-9	1.21	JB	0.0431	10.3	1
11031	2378-TCDF	51207-31-9	0.0550	U	0.0550	1.03	1
11031	12378-PeCDF	57117-41-6	0.0241	U	0.0241	5.16	1
11031	23478-PeCDF	57117-31-4	0.0369	JBQ	0.0242	5.16	1
11031	123478-HxCDF	70648-26-9	0.0550	JB	0.0255	5.16	1
11031	123678-HxCDF	57117-44-9	0.0213	U	0.0213	5.16	1
11031	123789-HxCDF	72918-21-9	0.0506	JB	0.0316	5.16	1
11031	234678-HxCDF	60851-34-5	0.0650	JB	0.0233	5.16	1
11031	1234678-HpCDF	67562-39-4	0.140	JB	0.0182	5.16	1
11031	1234789-HpCDF	55673-89-7	0.0397	JBQ	0.0390	5.16	1
11031	OCDF	39001-02-0	0.190	JB	0.0719	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	60	28 - 136
13C12-123789-HxCDF	54	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	52	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-025-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA7-SB-4.0-5.0

LLI Sample # SW 6412190
LLI Group # 1267311
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:48

Submitted: 09/20/2011 09:10
Reported: 10/11/2011 07:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3802 SDG#: DX138-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-025-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA7-SB-4.0-5.0

LLI Sample # SW 6412190
LLI Group # 1267311
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:48

Submitted: 09/20/2011 09:10
Reported: 10/11/2011 07:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3802 SDG#: DX138-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11272001	10/02/2011 02:24	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11272001	09/29/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11270162401A	09/27/2011 20:58	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-025-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA7-SB-9.0-10.0

LLI Sample # SW 6412191
LLI Group # 1267311
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:51

Submitted: 09/20/2011 09:10
Reported: 10/11/2011 07:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3803 SDG#: DX138-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-025-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA7-SB-9.0-10.0

LLI Sample # SW 6412191
LLI Group # 1267311
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:51

Submitted: 09/20/2011 09:10
Reported: 10/11/2011 07:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3803 SDG#: DX138-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0738	U	0.0738	1.04	1
11031	12378-PeCDD	40321-76-4	0.0556	U	0.0556	5.20	1
11031	123478-HxCDD	39227-28-6	0.0485	JQ	0.0403	5.20	1
11031	123678-HxCDD	57653-85-7	0.0592	J	0.0392	5.20	1
11031	123789-HxCDD	19408-74-3	0.0638	JB	0.0368	5.20	1
11031	1234678-HpCDD	35822-46-9	0.288	JB	0.0483	5.20	1
11031	OCDD	3268-87-9	0.878	JB	0.0483	10.4	1
11031	2378-TCDF	51207-31-9	0.0600	U	0.0600	1.04	1
11031	12378-PeCDF	57117-41-6	0.0264	U	0.0264	5.20	1
11031	23478-PeCDF	57117-31-4	0.0657	JBQ	0.0263	5.20	1
11031	123478-HxCDF	70648-26-9	0.0356	U	0.0356	5.20	1
11031	123678-HxCDF	57117-44-9	0.0450	JBQ	0.0294	5.20	1
11031	123789-HxCDF	72918-21-9	0.0377	JBQ	0.0317	5.20	1
11031	234678-HxCDF	60851-34-5	0.0470	JB	0.0230	5.20	1
11031	1234678-HpCDF	67562-39-4	0.101	JBQ	0.0259	5.20	1
11031	1234789-HpCDF	55673-89-7	0.0389	U	0.0389	5.20	1
11031	OCDF	39001-02-0	0.0958	JBQ	0.0801	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	44	26 - 152
13C12-123678-HxCDF	53	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	53	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-025-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA7-SB-9.0-10.0

LLI Sample # SW 6412191
LLI Group # 1267311
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:51

Submitted: 09/20/2011 09:10
Reported: 10/11/2011 07:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3803 SDG#: DX138-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-025-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA7-SB-9.0-10.0

LLI Sample # SW 6412191
LLI Group # 1267311
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:51

Submitted: 09/20/2011 09:10
Reported: 10/11/2011 07:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3803 SDG#: DX138-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11272001	10/02/2011 03:21	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11272001	09/29/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11270162401A	09/27/2011 20:58	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-032-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA7-SB-4.0-5.0

LLI Sample # SW 6412192
LLI Group # 1267311
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 08:47

Submitted: 09/20/2011 09:10
Reported: 10/11/2011 07:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3804 SDG#: DX138-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-032-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-032-SA7-SB-4.0-5.0

LLI Sample # SW 6412192
LLI Group # 1267311
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 08:47

Submitted: 09/20/2011 09:10
Reported: 10/11/2011 07:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3804 SDG#: DX138-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0616	U	0.0616	1.06	1
11031	12378-PeCDD	40321-76-4	0.0428	U	0.0428	5.32	1
11031	123478-HxCDD	39227-28-6	0.0343	U	0.0343	5.32	1
11031	123678-HxCDD	57653-85-7	0.0334	U	0.0334	5.32	1
11031	123789-HxCDD	19408-74-3	0.0988	JB	0.0328	5.32	1
11031	1234678-HpCDD	35822-46-9	0.784	JB	0.0461	5.32	1
11031	OCDD	3268-87-9	6.73	JB	0.0457	10.6	1
11031	2378-TCDF	51207-31-9	0.0479	U	0.0479	1.06	1
11031	12378-PeCDF	57117-41-6	0.0292	JQ	0.0211	5.32	1
11031	23478-PeCDF	57117-31-4	0.0325	JBQ	0.0218	5.32	1
11031	123478-HxCDF	70648-26-9	0.0423	JBQ	0.0252	5.32	1
11031	123678-HxCDF	57117-44-9	0.0226	JB	0.0194	5.32	1
11031	123789-HxCDF	72918-21-9	0.0297	U	0.0297	5.32	1
11031	234678-HxCDF	60851-34-5	0.0510	JB	0.0207	5.32	1
11031	1234678-HpCDF	67562-39-4	0.127	JBQ	0.0170	5.32	1
11031	1234789-HpCDF	55673-89-7	0.0457	JBQ	0.0358	5.32	1
11031	OCDF	39001-02-0	0.223	JBQ	0.0771	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	51	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-032-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA7-SB-4.0-5.0

LLI Sample # SW 6412192
LLI Group # 1267311
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 08:47

Submitted: 09/20/2011 09:10
Reported: 10/11/2011 07:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3804 SDG#: DX138-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-032-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA7-SB-4.0-5.0

LLI Sample # SW 6412192
LLI Group # 1267311
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 08:47

Submitted: 09/20/2011 09:10
Reported: 10/11/2011 07:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3804 SDG#: DX138-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11272001	10/02/2011 04:17	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11272001	09/29/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11272162401B	09/29/2011 21:46	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-032-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA7-SB-9.0-10.0

LLI Sample # SW 6412193
LLI Group # 1267311
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 08:53

Submitted: 09/20/2011 09:10
Reported: 10/11/2011 07:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3805 SDG#: DX138-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-032-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA7-SB-9.0-10.0

LLI Sample # SW 6412193
LLI Group # 1267311
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 08:53

Submitted: 09/20/2011 09:10
Reported: 10/11/2011 07:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3805 SDG#: DX138-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0684	U	0.0684	1.05	1
11031	12378-PeCDD	40321-76-4	0.0486	U	0.0486	5.24	1
11031	123478-HxCDD	39227-28-6	0.0319	J	0.0305	5.24	1
11031	123678-HxCDD	57653-85-7	0.0455	JQ	0.0300	5.24	1
11031	123789-HxCDD	19408-74-3	0.0485	JB	0.0309	5.24	1
11031	1234678-HpCDD	35822-46-9	0.349	JBQ	0.0393	5.24	1
11031	OCDD	3268-87-9	1.76	JB	0.0450	10.5	1
11031	2378-TCDF	51207-31-9	0.0632	U	0.0632	1.05	1
11031	12378-PeCDF	57117-41-6	0.0520	JQ	0.0255	5.24	1
11031	23478-PeCDF	57117-31-4	0.0622	JBQ	0.0279	5.24	1
11031	123478-HxCDF	70648-26-9	0.0544	JBQ	0.0266	5.24	1
11031	123678-HxCDF	57117-44-9	0.0295	JB	0.0206	5.24	1
11031	123789-HxCDF	72918-21-9	0.0525	JB	0.0331	5.24	1
11031	234678-HxCDF	60851-34-5	0.0548	JBQ	0.0234	5.24	1
11031	1234678-HpCDF	67562-39-4	0.0789	JB	0.0123	5.24	1
11031	1234789-HpCDF	55673-89-7	0.0346	JBQ	0.0310	5.24	1
11031	OCDF	39001-02-0	0.137	JBQ	0.0769	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	51	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	60	28 - 136
13C12-123789-HxCDF	52	29 - 147
13C12-1234678-HpCDF	96	28 - 143
13C12-1234789-HpCDF	48	26 - 138
13C12-OCDF	45	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-032-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA7-SB-9.0-10.0

LLI Sample # SW 6412193
LLI Group # 1267311
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 08:53

Submitted: 09/20/2011 09:10
Reported: 10/11/2011 07:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3805 SDG#: DX138-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-032-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA7-SB-9.0-10.0

LLI Sample # SW 6412193
LLI Group # 1267311
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 08:53

Submitted: 09/20/2011 09:10
Reported: 10/11/2011 07:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3805 SDG#: DX138-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11272001	10/02/2011 08:17	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11272001	09/29/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11272162401B	09/29/2011 21:46	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-144-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA7-SB-4.0-5.0

LLI Sample # SW 6412194
LLI Group # 1267311
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:25

Submitted: 09/20/2011 09:10
Reported: 10/11/2011 07:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3806 SDG#: DX138-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-144-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-144-SA7-SB-4.0-5.0

LLI Sample # SW 6412194
LLI Group # 1267311
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:25

Submitted: 09/20/2011 09:10
Reported: 10/11/2011 07:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3806 SDG#: DX138-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0701	U	0.0701	1.04	1
11031	12378-PeCDD	40321-76-4	0.171	JQ	0.0450	5.22	1
11031	123478-HxCDD	39227-28-6	0.0822	JQ	0.0337	5.22	1
11031	123678-HxCDD	57653-85-7	0.0899	J	0.0349	5.22	1
11031	123789-HxCDD	19408-74-3	0.143	JBQ	0.0325	5.22	1
11031	1234678-HpCDD	35822-46-9	0.331	JB	0.0378	5.22	1
11031	OCDD	3268-87-9	0.863	JB	0.0378	10.4	1
11031	2378-TCDF	51207-31-9	0.0547	U	0.0547	1.04	1
11031	12378-PeCDF	57117-41-6	0.115	J	0.0238	5.22	1
11031	23478-PeCDF	57117-31-4	0.119	JBQ	0.0254	5.22	1
11031	123478-HxCDF	70648-26-9	0.175	JB	0.0349	5.22	1
11031	123678-HxCDF	57117-44-9	0.0811	JBQ	0.0271	5.22	1
11031	123789-HxCDF	72918-21-9	0.0861	JB	0.0388	5.22	1
11031	234678-HxCDF	60851-34-5	0.105	JB	0.0299	5.22	1
11031	1234678-HpCDF	67562-39-4	0.130	JB	0.0138	5.22	1
11031	1234789-HpCDF	55673-89-7	0.0730	JB	0.0327	5.22	1
11031	OCDF	39001-02-0	0.246	JB	0.0712	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	60	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	60	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	49	26 - 138
13C12-OCDF	48	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-144-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA7-SB-4.0-5.0

LLI Sample # SW 6412194
LLI Group # 1267311
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:25

Submitted: 09/20/2011 09:10
Reported: 10/11/2011 07:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3806 SDG#: DX138-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-144-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA7-SB-4.0-5.0

LLI Sample # SW 6412194
LLI Group # 1267311
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:25

Submitted: 09/20/2011 09:10
Reported: 10/11/2011 07:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3806 SDG#: DX138-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11272001	10/02/2011 09:13	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11272001	09/29/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11270162401A	09/27/2011 20:58	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-144-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA7-SB-9.0-10.0

LLI Sample # SW 6412195
LLI Group # 1267311
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:28

Submitted: 09/20/2011 09:10
Reported: 10/11/2011 07:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3807 SDG#: DX138-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-144-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA7-SB-9.0-10.0

LLI Sample # SW 6412195
LLI Group # 1267311
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:28

Submitted: 09/20/2011 09:10
Reported: 10/11/2011 07:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3807 SDG#: DX138-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0691	JQ	0.0621	1.03	1
11031	12378-PeCDD	40321-76-4	0.0773	J	0.0468	5.14	1
11031	123478-HxCDD	39227-28-6	0.0578	JQ	0.0353	5.14	1
11031	123678-HxCDD	57653-85-7	0.122	JQ	0.0334	5.14	1
11031	123789-HxCDD	19408-74-3	0.171	JBQ	0.0307	5.14	1
11031	1234678-HpCDD	35822-46-9	0.259	JB	0.0372	5.14	1
11031	OCDD	3268-87-9	0.825	JB	0.0428	10.3	1
11031	2378-TCDF	51207-31-9	0.0647	JQ	0.0529	1.03	1
11031	12378-PeCDF	57117-41-6	0.144	J	0.0252	5.14	1
11031	23478-PeCDF	57117-31-4	0.158	JBQ	0.0255	5.14	1
11031	123478-HxCDF	70648-26-9	0.0835	JBQ	0.0305	5.14	1
11031	123678-HxCDF	57117-44-9	0.103	JBQ	0.0245	5.14	1
11031	123789-HxCDF	72918-21-9	0.224	JB	0.0285	5.14	1
11031	234678-HxCDF	60851-34-5	0.0593	JB	0.0220	5.14	1
11031	1234678-HpCDF	67562-39-4	0.118	JB	0.0145	5.14	1
11031	1234789-HpCDF	55673-89-7	0.0256	U	0.0256	5.14	1
11031	OCDF	39001-02-0	0.211	JB	0.0655	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	51	26 - 152
13C12-123678-HxCDF	61	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	56	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-144-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA7-SB-9.0-10.0

LLI Sample # SW 6412195
LLI Group # 1267311
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:28

Submitted: 09/20/2011 09:10
Reported: 10/11/2011 07:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3807 SDG#: DX138-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-144-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-144-SA7-SB-9.0-10.0

LLI Sample # SW 6412195
LLI Group # 1267311
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 11:28

Submitted: 09/20/2011 09:10
Reported: 10/11/2011 07:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3807 SDG#: DX138-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11272001	10/02/2011 10:10	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11272001	09/29/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11270162401A	09/27/2011 20:58	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-145-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-145-SA7-SB-4.0-5.0

LLI Sample # SW 6412196
LLI Group # 1267311
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 12:40

Submitted: 09/20/2011 09:10
Reported: 10/11/2011 07:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3808 SDG#: DX138-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-145-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-145-SA7-SB-4.0-5.0

LLI Sample # SW 6412196
LLI Group # 1267311
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 12:40

Submitted: 09/20/2011 09:10
Reported: 10/11/2011 07:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3808 SDG#: DX138-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0628	U	0.0628	1.00	1
11031	12378-PeCDD	40321-76-4	0.0437	U	0.0437	5.01	1
11031	123478-HxCDD	39227-28-6	0.0317	U	0.0317	5.01	1
11031	123678-HxCDD	57653-85-7	0.0314	U	0.0314	5.01	1
11031	123789-HxCDD	19408-74-3	0.0724	JB	0.0292	5.01	1
11031	1234678-HpCDD	35822-46-9	0.238	JB	0.0395	5.01	1
11031	OCDD	3268-87-9	0.666	JB	0.0386	10.0	1
11031	2378-TCDF	51207-31-9	0.0500	U	0.0500	1.00	1
11031	12378-PeCDF	57117-41-6	0.0200	U	0.0200	5.01	1
11031	23478-PeCDF	57117-31-4	0.0693	JBQ	0.0219	5.01	1
11031	123478-HxCDF	70648-26-9	0.0241	U	0.0241	5.01	1
11031	123678-HxCDF	57117-44-9	0.0359	JBQ	0.0183	5.01	1
11031	123789-HxCDF	72918-21-9	0.0593	JB	0.0231	5.01	1
11031	234678-HxCDF	60851-34-5	0.0206	JB	0.0178	5.01	1
11031	1234678-HpCDF	67562-39-4	0.0980	JB	0.0129	5.01	1
11031	1234789-HpCDF	55673-89-7	0.0311	JBQ	0.0268	5.01	1
11031	OCDF	39001-02-0	0.122	JB	0.0687	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	93	28 - 130
13C12-123789-HxCDD	94	28 - 130
13C12-1234678-HpCDD	93	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	107	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	58	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-145-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-145-SA7-SB-4.0-5.0

LLI Sample # SW 6412196
LLI Group # 1267311
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 12:40

Submitted: 09/20/2011 09:10
Reported: 10/11/2011 07:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3808 SDG#: DX138-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-145-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-145-SA7-SB-4.0-5.0

LLI Sample # SW 6412196
LLI Group # 1267311
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 12:40

Submitted: 09/20/2011 09:10
Reported: 10/11/2011 07:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3808 SDG#: DX138-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11272001	10/02/2011 11:06	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11272001	09/29/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11270162401A	09/27/2011 20:58	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-145-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-145-SA7-SB-9.0-10.0

LLI Sample # SW 6412197
LLI Group # 1267311
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 12:43

Submitted: 09/20/2011 09:10
Reported: 10/11/2011 07:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3809 SDG#: DX138-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-145-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-145-SA7-SB-9.0-10.0

LLI Sample # SW 6412197
LLI Group # 1267311
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 12:43

Submitted: 09/20/2011 09:10
Reported: 10/11/2011 07:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3809 SDG#: DX138-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0479	U	0.0479	1.05	1
11031	12378-PeCDD	40321-76-4	0.0580	JB	0.0369	5.26	1
11031	123478-HxCDD	39227-28-6	0.0299	U	0.0299	5.26	1
11031	123678-HxCDD	57653-85-7	0.109	J	0.0281	5.26	1
11031	123789-HxCDD	19408-74-3	0.242	J	0.0271	5.26	1
11031	1234678-HpCDD	35822-46-9	0.560	JB	0.0367	5.26	1
11031	OCDD	3268-87-9	2.04	JB	0.0374	10.5	1
11031	2378-TCDF	51207-31-9	0.0385	U	0.0385	1.05	1
11031	12378-PeCDF	57117-41-6	0.0803	JQ	0.0203	5.26	1
11031	23478-PeCDF	57117-31-4	0.0884	JB	0.0208	5.26	1
11031	123478-HxCDF	70648-26-9	0.101	JBQ	0.0248	5.26	1
11031	123678-HxCDF	57117-44-9	0.0214	J	0.0208	5.26	1
11031	123789-HxCDF	72918-21-9	0.225	J	0.0286	5.26	1
11031	234678-HxCDF	60851-34-5	0.0930	JQ	0.0234	5.26	1
11031	1234678-HpCDF	67562-39-4	0.167	JB	0.0174	5.26	1
11031	1234789-HpCDF	55673-89-7	0.0663	JBQ	0.0362	5.26	1
11031	OCDF	39001-02-0	0.158	JB	0.0680	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	91	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	106	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	57	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-145-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-145-SA7-SB-9.0-10.0

LLI Sample # SW 6412197
LLI Group # 1267311
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 12:43

Submitted: 09/20/2011 09:10
Reported: 10/11/2011 07:25

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3809 SDG#: DX138-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-145-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-145-SA7-SB-9.0-10.0

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3809 SDG#: DX138-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11276003	10/05/2011 16:38	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11276003	10/03/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11270162401A	09/27/2011 20:58	Scott W Freisher	1

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267311
Reported: 10/11/11 at 07:25 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11270162401A	Sample number(s): 6412189-6412191,6412194-6412197								
Moisture Content by 160.3					100		80-120		
Batch number: 11272162401B	Sample number(s): 6412192-6412193								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11272001	Sample number(s): 6412189-6412196								
2378-TCDD	0.0683 U	0.0683	1.00	ng/kg	102		67-158		
12378-PeCDD	0.0441 U	0.0441	5.00	ng/kg	104		70-142		
123478-HxCDD	0.0355 U	0.0355	5.00	ng/kg	101		70-164		
123678-HxCDD	0.0356 U	0.0356	5.00	ng/kg	97		76-134		
123789-HxCDD	0.0741 J	0.0367	5.00	ng/kg	99		64-162		
1234678-HpCDD	0.240 J	0.0469	5.00	ng/kg	96		70-140		
OCDD	0.426 J	0.0419	10.0	ng/kg	96		78-144		
2378-TCDF	0.0614 U	0.0614	1.00	ng/kg	98		75-158		
12378-PeCDF	0.0265 U	0.0265	5.00	ng/kg	95		80-134		
23478-PeCDF	0.0526 J	0.0280	5.00	ng/kg	96		68-160		
123478-HxCDF	0.0514 J	0.0304	5.00	ng/kg	95		72-134		
123678-HxCDF	0.0478 J	0.0247	5.00	ng/kg	95		84-130		
123789-HxCDF	0.0524 J	0.0332	5.00	ng/kg	95		78-130		
234678-HxCDF	0.0664 J	0.0257	5.00	ng/kg	95		70-156		
1234678-HpCDF	0.133 J	0.0157	5.00	ng/kg	92		82-122		
1234789-HpCDF	0.0453 J	0.0347	5.00	ng/kg	96		78-138		
OCDF	0.235 J	0.0840	10.0	ng/kg	95		63-170		
Batch number: 11276003	Sample number(s): 6412197								
2378-TCDD	0.0509 U	0.0509	1.00	ng/kg	102		67-158		
12378-PeCDD	0.0428 J	0.0340	5.00	ng/kg	100		70-142		
123478-HxCDD	0.0207 U	0.0207	5.00	ng/kg	100		70-164		
123678-HxCDD	0.0212 U	0.0212	5.00	ng/kg	98		76-134		
123789-HxCDD	0.0215 U	0.0215	5.00	ng/kg	100		64-162		
1234678-HpCDD	0.215 J	0.0311	5.00	ng/kg	98		70-140		
OCDD	0.363 J	0.0256	10.0	ng/kg	95		78-144		
2378-TCDF	0.0346 U	0.0346	1.00	ng/kg	100		75-158		
12378-PeCDF	0.0163 U	0.0163	5.00	ng/kg	98		80-134		
23478-PeCDF	0.0722 J	0.0166	5.00	ng/kg	98		68-160		
123478-HxCDF	0.0306 J	0.0175	5.00	ng/kg	95		72-134		
123678-HxCDF	0.0153 U	0.0153	5.00	ng/kg	96		84-130		
123789-HxCDF	0.0217 U	0.0217	5.00	ng/kg	95		78-130		
234678-HxCDF	0.0171 U	0.0171	5.00	ng/kg	98		70-156		
1234678-HpCDF	0.123 J	0.0126	5.00	ng/kg	93		82-122		
1234789-HpCDF	0.0275 J	0.0247	5.00	ng/kg	97		78-138		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267311
Reported: 10/11/11 at 07:25 AM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
OCDF	0.0830 J	0.0633	10.0	ng/kg	97		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11270162401A	Sample number(s): 6412189-6412191,6412194-6412197					BKG: P412111			
Moisture Content by 160.3						0.83	0.92	10 (1)	20
Batch number: 11272162401B	Sample number(s): 6412192-6412193					BKG: P412126			
Moisture Content by 160.3						6.6	7.0	5	20
Batch number: 11272001	Sample number(s): 6412189-6412196					UNSPK: P414241			
2378-TCDD	108	104	67-158	6	25				
12378-PeCDD	107	102	70-142	6	25				
123478-HxCDD	98	101	70-164	1	25				
123678-HxCDD	100	96	76-134	5	25				
123789-HxCDD	101	102	64-162	1	25				
1234678-HpCDD	105	104	70-140	1	25				
OCDD	143 (2)	80 (2)	78-144	7	25				
2378-TCDF	102	94	75-158	10	25				
12378-PeCDF	100	102	80-134	0	25				
23478-PeCDF	94	95	68-160	1	25				
123478-HxCDF	102	95	72-134	9	25				
123678-HxCDF	98	98	84-130	2	25				
123789-HxCDF	100	98	78-130	3	25				
234678-HxCDF	100	100	70-156	2	25				
1234678-HpCDF	102	98	82-122	5	25				
1234789-HpCDF	101	96	78-138	7	25				
OCDF	100	97	63-170	4	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11272001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6412189	75	71	67	73	70	72
6412190	62	61	55	68	60	54
6412191	65	65	44	53	68	60
6412192	63	62	55	70	66	56
6412193	64	61	51	68	60	52
6412194	63	60	55	69	60	56
6412195	68	67	51	61	67	61
6412196	78	76	63	78	79	73
Blank	72	62	55	69	65	60

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267311
Reported: 10/11/11 at 07:25 AM

Surrogate Quality Control

MS	67	70	55	65	70	73
MSD	77	79	71	73	75	79
OPR	67	58	57	69	63	57
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6412189	86	71	70	74	77	85
6412190	90	54	52	71	72	78
6412191	76	59	53	71	73	76
6412192	95	57	51	70	75	81
6412193	96	48	45	72	74	78
6412194	95	49	48	69	73	74
6412195	83	57	56	73	77	81
6412196	107	63	58	82	89	93
Blank	95	55	50	75	82	88
MS	69	71	73	66	72	79
MSD	77	78	76	78	80	85
OPR	90	58	52	69	79	81
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6412189	90	86	86	72	77
6412190	82	81	83	58	71
6412191	81	84	84	62	73
6412192	81	87	86	59	72
6412193	76	83	82	58	74
6412194	74	78	81	59	72
6412195	83	81	81	66	74
6412196	94	93	90	76	88
Blank	86	89	83	58	71
MS	80	79	80	70	69
MSD	85	84	83	79	78
OPR	79	86	82	58	67
Limits:	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11276003

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6412197	77	69	70	82	72	72
Blank	72	66	66	78	69	65
OPR	81	74	75	87	79	77
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6412197	106	61	57	74	82	91
Blank	97	60	54	72	80	83
OPR	112	68	61	84	92	92
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267311
Reported: 10/11/11 at 07:25 AM

Surrogate Quality Control

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6412197	91	88	87	73	79
Blank	81	83	80	67	72
OPR	92	95	91	76	84
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp# 1267311 Sample# 6412139-97

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 8 (SA8) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-002-SA7-SS-0.0-0.5	09.19.11	1020	SOIL	NONE	1-SS Sleeve			X	X																		
SL-002-SA7-SS-0.0-0.5	09.19.11	1020	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-003-SA7-SS-0.0-0.5	09.19.11	1120	SOIL	NONE	1-SS Sleeve			X	X																		
SL-003-SA7-SS-0.0-0.5	09.19.11	1120	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-004-SA7-SS-0.0-0.5	09.19.11	1525	SOIL	NONE	1-SS Sleeve			X	X																		
SL-004-SA7-SS-0.0-0.5	09.19.11	1525	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-042-SA7-SS-0.0-0.5MS	09.19.11	0905	SOIL	NONE	2-SS Sleeve			X	X																		MS/MSD
SL-042-SA7-SS-0.0-0.5MS	09.19.11	0905	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X											MS/MSD
SL-048-SA7-SS-0.0-0.5	09.19.11	0955	SOIL	NONE	1-SS Sleeve			X	X																		
SL-048-SA7-SS-0.0-0.5	09.19.11	0955	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-110-SA7-SS-0.0-0.5	09.19.11	0840	SOIL	NONE	1-SS Sleeve																						
SL-110-SA7-SS-0.0-0.5	09.19.11	0840	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X	X	X	X	X		X	X	X	X	
SL-111-SA7-SS-0.0-0.5	09.19.11	1455	SOIL	NONE	1-SS Sleeve																						
SL-111-SA7-SS-0.0-0.5	09.19.11	1455	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											
SL-122-SA7-SS-0.0-0.5	09.19.11	1100	SOIL	NONE	1-SS Sleeve			X	X																		
SL-122-SA7-SS-0.0-0.5	09.19.11	1100	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-130-SA7-SS-0.0-0.5	09.19.11	1140	SOIL	NONE	1-SS Sleeve			X	X																		
SL-130-SA7-SS-0.0-0.5	09.19.11	1140	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-133-SA7-SS-0.0-0.5	09.19.11	0935	SOIL	NONE	1-SS Sleeve			X	X																		
SL-133-SA7-SS-0.0-0.5	09.19.11	0935	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
DUP02-SA7-QC-091911	09.19.11	0905	SOIL	NONE	1-SS Sleeve			X	X																		
DUP02-SA7-QC-091911	09.19.11	0905	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	
	09/19/2011 / 1600	2316	9/20/11 0910
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8754 3341 5831,5842,5853	

Laboratory:
Lancaster Laboratories, Inc.

acct#13013 Grp#1267311 Sample#6412139-97

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures: Lee Zeltner

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs *TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonol EPA 8270	Other Instructions and Notes
SL-025-SA7-SB-4.0-5.0	09.19.11	1448	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-025-SA7-SB-9.0-10.0	09.19.11	1451	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-032-SA7-SB-4.5	09.19.11	0846	SOIL	NONE	2-Encores										X											
SL-032-SA7-SB-4.0-5.0	09.19.11	0847	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X	
SL-032-SA7-SB-9.5	09.19.11	0852	SOIL	NONE	2-Encores										X											
SL-032-SA7-SB-9.0-10.0	09.19.11	0853	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X	
SL-144-SA7-SB-4.0-5.0	09.19.11	1125	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-144-SA7-SB-9.0-10.0	09.19.11	1128	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SI-145-SA7-SB-4.0-5.0	09.19.11	1240	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-145-SA7-SB-9.0-10.0	09.19.11	1243	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
TB-091911	09.19.11	0800	WATER	NONE	2-10mL vials										X											

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	09/19/2011 / 1600	9/20/11 0910	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8754 3341 5831,5842,5853	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 27, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/21/2011
Group Number: 1267605
SDG: DE248
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-131-SA7-SS-0.0-0.5 Soil	6414144
SL-137-SA7-SS-0.0-0.5 Soil	6414145
SL-138-SA7-SS-0.0-0.5 Soil	6414146
SL-005-SA7-SS-0.0-0.5 Soil	6414147
SL-006-SA7-SS-0.0-0.5 Soil	6414148
SL-043-SA7-SS-0.0-0.5 Soil	6414149
SL-046-SA7-SS-0.0-0.5 Soil	6414150
SL-047-SA7-SS-0.0-0.5 Soil	6414151
SL-049-SA7-SS-0.0-0.5 Soil	6414152
SL-050-SA7-SS-0.0-0.5 Soil	6414153
SL-050-SA7-SS-0.0-0.5MS Soil	6414154
SL-050-SA7-SS-0.0-0.5MSD Soil	6414155
SL-050-SA7-SS-0.0-0.5DUP Soil	6414156
SL-050-SA7-SS-0.0-0.5RL MS Soil	6414157
SL-050-SA7-SS-0.0-0.5RL LCS Soil	6414158
SL-051-SA7-SS-0.0-0.5 Soil	6414159
SL-085-SA7-SS-0.0-0.5 Soil	6414160
SL-125-SA7-SS-0.0-0.5 Soil	6414161
SL-129-SA7-SS-0.0-0.5 Soil	6414162
SL-134-SA7-SS-0.0-0.5 Soil	6414163
SL-135-SA7-SS-0.0-0.5 Soil	6414164
SL-173-SA7-SS-0.0-0.5 Soil	6414165
DUP03-SA7-QC-092011 Soil	6414166
SL-136-SA7-SS-0.0-0.5 Soil	6414167

Lancaster Laboratories

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Analysis Report

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Chad A. Moline
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-131-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-131-SA7-SS-0.0-0.5

LLI Sample # SW 6414144
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:10

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4801 SDG#: DE248-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-131-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-131-SA7-SS-0.0-0.5

LLI Sample # SW 6414144
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:10

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4801 SDG#: DE248-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.66	U	0.66	1.7		1
10138	Acenaphthylene	208-96-8	0.33	U	0.33	1.7		1
10138	Anthracene	120-12-7	0.33	U	0.33	1.7		1
10138	Benzo(a)anthracene	56-55-3	1.1	J	0.66	1.7		1
10138	Benzo(a)pyrene	50-32-8	1.6	J	0.66	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	3.7		0.66	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	1.5	J	0.66	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	1.1	J	0.66	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	J	5.9	18		1
10138	Di-n-butylphthalate	84-74-2	5.9	U	5.9	18		1
10138	Chrysene	218-01-9	2.2		0.33	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.66	U	0.66	1.7		1
10138	Diethylphthalate	84-66-2	5.9	U	5.9	18		1
10138	Dimethylphthalate	131-11-3	5.9	U	5.9	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.5	J	5.9	18		1
10138	Fluoranthene	206-44-0	3.9		0.66	1.7		1
10138	Fluorene	86-73-7	0.66	U	0.66	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.4	J	0.66	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.66	U	0.66	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.66	U	0.66	1.7		1
10138	Naphthalene	91-20-3	0.66	U	0.66	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.66	U	0.66	1.7		1
10138	Di-n-octylphthalate	117-84-0	5.9	U	5.9	18		1
10138	Phenanthrene	85-01-8	1.6	J	0.66	1.7		1
10138	Pyrene	129-00-0	3.3		0.66	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	5.8	U	5.8	5.8		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

Reporting limits were raised due to interference from the sample matrix. The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-131-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-131-SA7-SS-0.0-0.5

LLI Sample # SW 6414144
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:10

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4801 SDG#: DE248-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
statistical limits of 0-36%, the data is reported.								
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.80	U	0.80	3.4		1
01363	p,p-DDD	72-54-8	0.066	U	0.066	0.34		1
01363	p,p-DDE	72-55-9	0.14	J	0.066	0.34		1
01363	p,p-DDT	50-29-3	0.32	U	0.32	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.066	U	0.066	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.066	U	0.066	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34		1
01363	Endrin	72-20-8	0.066	U	0.066	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.066	U	0.066	0.34		1
01363	Endrin Ketone	53494-70-5	0.066	U	0.066	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.095	U	0.095	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.6		1

The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards.
The following analyte is accepted based on this allowance: heptachlor epoxide

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.6	J	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1
10225	PCB-1260	11096-82-5	0.59	J	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-131-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-131-SA7-SS-0.0-0.5

LLI Sample # SW 6414144
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:10

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4801 SDG#: DE248-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	100	U	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	1.1	J	0.40	1.2		1
10199	EFH (C21-C30)	n.a.	3.6		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	16		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.40	U	0.40	1.2		1

Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. The following corrective action was taken:
The sample was re-analyzed outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second analysis so all original results are reported.
Similar results were obtained in both trials.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,000		5.86	19.4		1
07914	Boron	7440-42-8	0.349	U	0.349	4.84		1
01650	Calcium	7440-70-2	2,620		2.42	19.4		1
01654	Iron	7439-89-6	19,700		2.53	19.4		1
01656	Lithium	7439-93-2	24.8		0.60	1.9		1
01657	Magnesium	7439-95-4	4,890		0.426	9.69		1
06958	Manganese	7439-96-5	260		0.0349	0.484		1
10145	Phosphorus	7723-14-0	419		0.339	9.69		1
01662	Potassium	7440-09-7	3,220		10.9	48.4		1
01667	Sodium	7440-23-5	62.3	J	5.76	96.9		1
07968	Strontium	7440-24-6	9.79		0.0242	0.484		1
06969	Tin	7440-31-5	2.69	J	0.310	9.69		1
06970	Titanium	7440-32-6	1,210		0.0694	0.978		1
10146	Zirconium	7440-67-7	2.71	J	0.446	4.84		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.105	J	0.0717	0.194		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-131-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-131-SA7-SS-0.0-0.5

LLI Sample # SW 6414144
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:10

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4801 SDG#: DE248-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.55		0.0775	0.387		2
06126	Barium	7440-39-3	73.8		0.103	0.387		2
06127	Beryllium	7440-41-7	0.392		0.0155	0.0969		2
06128	Cadmium	7440-43-9	0.0985		0.0426	0.0969		2
06131	Chromium	7440-47-3	14.5		0.116	0.387		2
06132	Cobalt	7440-48-4	5.08		0.0194	0.0969		2
06133	Copper	7440-50-8	6.84		0.0775	0.387		2
06135	Lead	7439-92-1	6.88		0.0099	0.194		2
06138	Molybdenum	7439-98-7	0.309		0.0484	0.0969		2
06139	Nickel	7440-02-0	9.83		0.0969	0.387		2
06141	Selenium	7782-49-2	0.108	J	0.0562	0.387		2
06142	Silver	7440-22-4	0.0628	J	0.0138	0.0969		2
06145	Thallium	7440-28-0	0.248		0.0291	0.0969		2
06148	Vanadium	7440-62-2	29.2		0.0213	0.0969		2
06149	Zinc	7440-66-6	55.0		0.542	2.91		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0175	J	0.0069	0.0979		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.84		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.72		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-131-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-131-SA7-SS-0.0-0.5

LLI Sample # SW 6414144
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:10

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4801 SDG#: DE248-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11269SLA026	10/02/2011 15:15	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLF026	10/04/2011 13:37	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLF026	09/28/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11269SLA026	09/28/2011 19:00	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670049A	09/30/2011 05:41	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670060A	10/03/2011 21:35	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670050A	09/28/2011 23:30	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112670060A	09/28/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670050A	09/28/2011 03:15	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670049A	09/28/2011 02:00	Kerrie A Freeburn	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112690024A	09/27/2011 02:03	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112720042A	09/29/2011 21:27	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112670044A	09/30/2011 00:32	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112680002A	10/02/2011 15:19	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112680002A	09/26/2011 11:00	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112670044A	09/27/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112690024A	09/26/2011 20:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112720042A	09/29/2011 16:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112655708002	09/30/2011 18:17	John P Hook	1
07914	Boron	SW-846 6010B	1	112655708002	09/30/2011 18:17	John P Hook	1
01650	Calcium	SW-846 6010B	1	112655708002	09/30/2011 18:17	John P Hook	1
01654	Iron	SW-846 6010B	1	112655708002	09/30/2011 18:17	John P Hook	1
01656	Lithium	SW-846 6010B	1	112655708002	09/30/2011 18:17	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112655708002	09/30/2011 18:17	John P Hook	1
06958	Manganese	SW-846 6010B	1	112655708002	09/30/2011 18:17	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112655708002	09/30/2011 18:17	John P Hook	1
01662	Potassium	SW-846 6010B	1	112655708002	09/30/2011 18:17	John P Hook	1
01667	Sodium	SW-846 6010B	1	112655708002	09/30/2011 18:17	John P Hook	1
07968	Strontium	SW-846 6010B	1	112655708002	09/30/2011 18:17	John P Hook	1
06969	Tin	SW-846 6010B	1	112655708002	09/30/2011 18:17	John P Hook	1
06970	Titanium	SW-846 6010B	1	112765708002	10/04/2011 06:54	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112655708002	09/30/2011 18:17	John P Hook	1
06124	Antimony	SW-846 6020	1	112651026001A	09/23/2011 08:39	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-131-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-131-SA7-SS-0.0-0.5

LLI Sample # SW 6414144
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:10

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4801 SDG#: DE248-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	112651026001A	09/23/2011 08:39	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112651026001D	09/23/2011 08:39	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112651026001A	09/23/2011 08:39	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112651026001A	09/23/2011 08:39	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112651026001A	09/23/2011 08:39	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112651026001A	09/23/2011 08:39	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112651026001A	09/23/2011 08:39	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112651026001A	09/23/2011 08:39	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112651026001C	09/23/2011 08:39	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112651026001A	09/23/2011 08:39	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112651026001B	09/23/2011 08:39	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112651026001A	09/23/2011 08:39	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112651026001A	09/23/2011 08:39	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112651026001A	09/23/2011 08:39	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112651026001A	09/23/2011 08:39	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112655711001	09/23/2011 06:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112655708002	09/22/2011 21:29	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112765708002	10/03/2011 22:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112651026001	09/22/2011 21:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112655711001	09/23/2011 00:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11271621201A	09/28/2011 22:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11266621202A	10/04/2011 15:19	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243201A	10/05/2011 13:27	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11275102201A	10/03/2011 09:08	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11271621201A	09/28/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621202A	09/23/2011 06:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11275102201A	10/02/2011 22:35	James S Mathiot	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11272039401A	09/29/2011 10:30	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243201A	10/03/2011 10:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11270162402A	09/27/2011 21:20	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-137-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA7-SS-0.0-0.5

LLI Sample # SW 6414145
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 13:45

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4802 SDG#: DE248-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-137-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA7-SS-0.0-0.5

LLI Sample # SW 6414145
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 13:45

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4802 SDG#: DE248-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	26		3.3	8.4		5
10138	Acenaphthylene	208-96-8	1.7	J	1.7	8.4		5
10138	Anthracene	120-12-7	42		1.7	8.4		5
10138	Benzo(a)anthracene	56-55-3	95		3.3	8.4		5
10138	Benzo(a)pyrene	50-32-8	84		3.3	8.4		5
10138	Benzo(b)fluoranthene	205-99-2	120		3.3	8.4		5
10138	Benzo(g,h,i)perylene	191-24-2	41		3.3	8.4		5
10138	Benzo(k)fluoranthene	207-08-9	52		3.3	8.4		5
10138	Di-n-butylphthalate	84-74-2	57	J	30	90		5
10138	Chrysene	218-01-9	110		1.7	8.4		5
10138	Dibenz(a,h)anthracene	53-70-3	13		3.3	8.4		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	160		30	90		5
10138	Fluoranthene	206-44-0	250		3.3	8.4		5
10138	Fluorene	86-73-7	28		3.3	8.4		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	40		3.3	8.4		5
10138	1-Methylnaphthalene	90-12-0	5.2	J	3.3	8.4		5
10138	2-Methylnaphthalene	91-57-6	6.1	J	3.3	8.4		5
10138	Naphthalene	91-20-3	10		3.3	8.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.3	U	3.3	8.4		5
10138	Phenanthrene	85-01-8	230		3.3	8.4		5
10138	Pyrene	129-00-0	200		3.3	8.4		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	0.62	U	0.62	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1
10401	MCPA	94-74-6	76	U	76	250		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.26	U	0.26	0.26		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1

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Sample Description: **SL-137-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA7-SS-0.0-0.5

LLI Sample # SW 6414145
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 13:45

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4802 SDG#: DE248-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	Reporting limits were raised due to interference from the sample matrix. The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.17	U	0.17	0.42		1
01363	Alpha BHC	319-84-6	0.086	U	0.086	0.42		1
01363	Beta BHC	319-85-7	0.15	U	0.15	0.42		1
01363	Gamma BHC - Lindane	58-89-9	0.086	U	0.086	0.42		1
01363	Chlordane	57-74-9	45		8.0	34		10
01363	p,p-DDD	72-54-8	0.17	U	0.17	0.86		1
01363	p,p-DDE	72-55-9	0.44	U	0.44	0.86		1
01363	p,p-DDT	50-29-3	3.7		0.17	0.86		1
01363	Delta BHC	319-86-8	0.091	U	0.091	0.42		1
01363	Dieldrin	60-57-1	0.17	U	0.17	0.86		1
01363	Endosulfan I	959-98-8	0.11	U	0.11	0.42		1
01363	Endosulfan II	33213-65-9	0.17	U	0.17	0.86		1
01363	Endosulfan Sulfate	1031-07-8	0.17	U	0.17	0.86		1
01363	Endrin	72-20-8	0.17	U	0.17	0.86		1
01363	Endrin Aldehyde	7421-93-4	0.29	U	0.29	0.86		1
01363	Endrin Ketone	53494-70-5	0.17	U	0.17	0.86		1
01363	Heptachlor	76-44-8	0.15	U	0.15	0.42		1
01363	Heptachlor Epoxide	1024-57-3	0.48	U	0.48	0.48		1
01363	Methoxychlor	72-43-5	0.86	U	0.86	4.2		1
01363	Mirex	2385-85-5	0.17	U	0.17	0.86		1
01363	Toxaphene	8001-35-2	37	U	37	37		1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: heptachlor epoxide Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.0	U	5.0	17		5
10225	Aroclor 5442	12642-23-8	5.0	U	5.0	17		5
10225	Aroclor 5460	11126-42-4	5.0	U	5.0	17		5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.6		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.6		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.6		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.6		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.6		5
10225	PCB-1254	11097-69-1	3.4	J	1.7	8.6		5
10225	PCB-1260	11096-82-5	3.8	J	2.0	8.6		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.6		5

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Sample Description: **SL-137-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA7-SS-0.0-0.5

LLI Sample # SW 6414145
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 13:45

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4802 SDG#: DE248-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.6		5
	Reporting limits were raised due to interference from the sample matrix.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	100	U	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.0	U	2.0	6.0		5
10199	EFH (C15-C20)	n.a.	2.9	J	2.0	6.0		5
10199	EFH (C21-C30)	n.a.	31		2.0	6.0		5
10199	EFH (C30 - C40)	n.a.	110		2.0	6.0		5
10199	EFH (C8-C11)	n.a.	2.0	U	2.0	6.0		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,600		5.85	19.3		1
07914	Boron	7440-42-8	0.348	U	0.348	4.84		1
01650	Calcium	7440-70-2	2,900		2.42	19.3		1
01654	Iron	7439-89-6	20,000		2.52	19.3		1
01656	Lithium	7439-93-2	25.1		0.60	1.9		1
01657	Magnesium	7439-95-4	4,340		0.426	9.67		1
06958	Manganese	7439-96-5	283		0.0348	0.484		1
10145	Phosphorus	7723-14-0	521		0.339	9.67		1
01662	Potassium	7440-09-7	3,330		10.9	48.4		1
01667	Sodium	7440-23-5	79.9	J	5.76	96.7		1
07968	Strontium	7440-24-6	13.1		0.0242	0.484		1
06969	Tin	7440-31-5	3.19	J	0.310	9.67		1
06970	Titanium	7440-32-6	1,140		0.0700	0.986		1
10146	Zirconium	7440-67-7	2.58	J	0.445	4.84		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0760	J	0.0723	0.195		2

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Sample Description: **SL-137-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA7-SS-0.0-0.5

LLI Sample # SW 6414145
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 13:45

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4802 SDG#: DE248-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.74		0.0781	0.391		2
06126	Barium	7440-39-3	80.7		0.104	0.391		2
06127	Beryllium	7440-41-7	0.415		0.0156	0.0977		2
06128	Cadmium	7440-43-9	0.557		0.0430	0.0977		2
06131	Chromium	7440-47-3	20.2		0.117	0.391		2
06132	Cobalt	7440-48-4	4.84		0.0195	0.0977		2
06133	Copper	7440-50-8	10.9		0.0781	0.391		2
06135	Lead	7439-92-1	15.6		0.010	0.195		2
06138	Molybdenum	7439-98-7	0.316		0.0488	0.0977		2
06139	Nickel	7440-02-0	9.44		0.0977	0.391		2
06141	Selenium	7782-49-2	0.103	J	0.0567	0.391		2
06142	Silver	7440-22-4	0.0437	J	0.0139	0.0977		2
06145	Thallium	7440-28-0	0.241		0.0293	0.0977		2
06148	Vanadium	7440-62-2	28.4		0.0215	0.0977		2
06149	Zinc	7440-66-6	129		0.547	2.93		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0161	J	0.0070	0.0994		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80	U	0.80	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.40		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.60		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-137-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA7-SS-0.0-0.5

LLI Sample # SW 6414145
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 13:45

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4802 SDG#: DE248-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11269SLA026	10/02/2011 15:40	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLF026	10/04/2011 14:09	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLF026	09/28/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11269SLA026	09/28/2011 19:00	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670049A	09/30/2011 06:09	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670060A	10/04/2011 04:36	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670060A	10/04/2011 04:50	Melissa McDermott	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670050A	09/28/2011 23:49	Jessica L Miller	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112670060A	09/28/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670050A	09/28/2011 03:15	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670049A	09/28/2011 02:00	Kerrie A Freeburn	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112690024A	09/27/2011 02:17	Elizabeth J Marin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112690024A	09/28/2011 00:30	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112720042A	09/29/2011 21:40	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112670044A	09/30/2011 02:23	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112680002A	10/02/2011 17:43	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112680002A	09/26/2011 11:00	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112670044A	09/27/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112690024A	09/26/2011 20:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112720042A	09/29/2011 16:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112655708002	09/30/2011 18:28	John P Hook	1
07914	Boron	SW-846 6010B	1	112655708002	09/30/2011 18:28	John P Hook	1
01650	Calcium	SW-846 6010B	1	112655708002	09/30/2011 18:28	John P Hook	1
01654	Iron	SW-846 6010B	1	112655708002	09/30/2011 18:28	John P Hook	1
01656	Lithium	SW-846 6010B	1	112655708002	09/30/2011 18:28	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112655708002	09/30/2011 18:28	John P Hook	1
06958	Manganese	SW-846 6010B	1	112655708002	09/30/2011 18:28	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112655708002	09/30/2011 18:28	John P Hook	1
01662	Potassium	SW-846 6010B	1	112655708002	09/30/2011 18:28	John P Hook	1
01667	Sodium	SW-846 6010B	1	112655708002	09/30/2011 18:28	John P Hook	1
07968	Strontium	SW-846 6010B	1	112655708002	09/30/2011 18:28	John P Hook	1
06969	Tin	SW-846 6010B	1	112655708002	09/30/2011 18:28	John P Hook	1
06970	Titanium	SW-846 6010B	1	112765708002	10/04/2011 06:59	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-137-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA7-SS-0.0-0.5

LLI Sample # SW 6414145
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 13:45

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4802 SDG#: DE248-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	112655708002	09/30/2011 18:28	John P Hook	1
06124	Antimony	SW-846 6020	1	112651026001A	09/23/2011 08:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112651026001A	09/23/2011 08:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112651026001D	09/23/2011 08:42	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112651026001A	09/23/2011 08:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112651026001A	09/23/2011 08:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112651026001A	09/23/2011 08:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112651026001A	09/23/2011 08:42	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112651026001A	09/23/2011 08:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112651026001A	09/23/2011 08:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112651026001C	09/23/2011 08:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112651026001A	09/23/2011 08:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112651026001B	09/23/2011 08:42	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112651026001A	09/23/2011 08:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112651026001A	09/23/2011 08:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112651026001A	09/23/2011 08:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112651026001A	09/23/2011 08:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112655711001	09/23/2011 06:57	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112655708002	09/22/2011 21:29	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112765708002	10/03/2011 22:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112651026001	09/22/2011 21:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112655711001	09/23/2011 00:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11271621201A	09/28/2011 23:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11266621202A	10/04/2011 16:05	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243201A	10/05/2011 13:41	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11275102201A	10/03/2011 09:09	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11271621201A	09/28/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621202A	09/23/2011 06:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11275102201A	10/02/2011 22:35	James S Mathiot	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11272039401A	09/29/2011 10:30	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243201A	10/03/2011 10:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11270162402A	09/27/2011 21:20	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-138-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA7-SS-0.0-0.5

LLI Sample # SW 6414146
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4803 SDG#: DE248-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	610		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,100		1
04688	Benzoic acid	65-85-0	1,100		200	610		1
04688	Benzyl alcohol	100-51-6	200	U	200	610		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Butylbenzylphthalate	85-68-7	20	U	20	200		1
04688	Di-n-butylphthalate	84-74-2	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	41	U	41	200		1
04688	4-Chloroaniline	106-47-8	82	U	82	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	41	U	41	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	410		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	Diethylphthalate	84-66-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	41	U	41	200		1
04688	3,5-Dimethylphenol	108-68-9	41	U	41	200		1
04688	Dimethylphthalate	131-11-3	20	U	20	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	610		1
04688	2,4-Dinitrophenol	51-28-5	410	U	410	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	41	U	41	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	82	U	82	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	610		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	41	U	41	200		1
04688	4-Methylphenol	106-44-5	41	U	41	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	41	U	41	200		1
04688	4-Nitroaniline	100-01-6	82	U	82	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	610		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-138-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA7-SS-0.0-0.5

LLI Sample # SW 6414146
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4803 SDG#: DE248-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	20	U	20	200		1
04688	Pentachlorophenol	87-86-5	220	J	200	610		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	Tetralin	119-64-2	200	U	200	200		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	41	U	41	200		1
04688	2,4,6-Trichlorophenol	88-06-2	41	U	41	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	4.1	U	4.1	10		5
10138	Acenaphthylene	208-96-8	2.0	U	2.0	10		5
10138	Anthracene	120-12-7	2.0	U	2.0	10		5
10138	Benzo(a)anthracene	56-55-3	5.4	J	4.1	10		5
10138	Benzo(a)pyrene	50-32-8	8.0	J	4.1	10		5
10138	Benzo(b)fluoranthene	205-99-2	20		4.1	10		5
10138	Benzo(g,h,i)perylene	191-24-2	6.7	J	4.1	10		5
10138	Benzo(k)fluoranthene	207-08-9	5.1	J	4.1	10		5
10138	Chrysene	218-01-9	12		2.0	10		5
10138	Dibenz(a,h)anthracene	53-70-3	4.1	U	4.1	10		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	130		37	110		5
10138	Fluoranthene	206-44-0	19		4.1	10		5
10138	Fluorene	86-73-7	4.1	U	4.1	10		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	5.3	J	4.1	10		5
10138	1-Methylnaphthalene	90-12-0	4.1	U	4.1	10		5
10138	2-Methylnaphthalene	91-57-6	4.1	U	4.1	10		5
10138	Naphthalene	91-20-3	4.1	U	4.1	10		5
10138	N-Nitrosodimethylamine	62-75-9	4.1	U	4.1	10		5
10138	Phenanthrene	85-01-8	6.6	J	4.1	10		5
10138	Pyrene	129-00-0	15		4.1	10		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.5	U	1.5	4.4		1
10401	Dalapon	75-99-0	5.4	U	5.4	11		1
10401	2,4-DB	94-82-6	0.76	U	0.76	2.1		1
10401	Dicamba	1918-00-9	0.49	U	0.49	1.5		1
10401	Dinoseb	88-85-7	0.98	U	0.98	2.9		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.98	U	0.98	2.1		1
10401	MCPA	94-74-6	160	U	160	310		1
10401	MCPP (Mecoprop)	93-65-2	92	U	92	310		1
10401	2,4,5-T	93-76-5	0.10	U	0.10	0.21		1
10401	2,4,5-TP	93-72-1	0.11	J	0.092	0.21		1
	Reporting limits were raised due to interference from the sample matrix.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-138-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA7-SS-0.0-0.5

LLI Sample # SW 6414146
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4803 SDG#: DE248-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.081	U	0.081	0.20		1
01363	Alpha BHC	319-84-6	0.050	J	0.042	0.20		1
01363	Beta BHC	319-85-7	0.074	U	0.074	0.20		1
01363	Gamma BHC - Lindane	58-89-9	0.10	U	0.10	0.20		1
01363	Chlordane	57-74-9	4.1	J	0.98	4.2		1
01363	p,p-DDD	72-54-8	1.8	U	1.8	1.8		1
01363	p,p-DDE	72-55-9	1.1	U	1.1	1.1		1
01363	p,p-DDT	50-29-3	1.5		0.081	0.42		1
01363	Delta BHC	319-86-8	0.048	J	0.044	0.20		1
01363	Dieldrin	60-57-1	0.081	U	0.081	0.42		1
01363	Endosulfan I	959-98-8	0.17	U	0.17	0.20		1
01363	Endosulfan II	33213-65-9	0.37	U	0.37	0.42		1
01363	Endosulfan Sulfate	1031-07-8	0.081	U	0.081	0.42		1
01363	Endrin	72-20-8	0.25	U	0.25	0.42		1
01363	Endrin Aldehyde	7421-93-4	0.31	U	0.31	0.42		1
01363	Endrin Ketone	53494-70-5	0.081	U	0.081	0.42		1
01363	Heptachlor	76-44-8	0.074	U	0.074	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.28	U	0.28	0.28		1
01363	Methoxychlor	72-43-5	0.42	U	0.42	2.0		1
01363	Mirex	2385-85-5	0.44	U	0.44	0.44		1
01363	Toxaphene	8001-35-2	13	U	13	13		1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: heptachlor epoxide Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	18		1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.1		1
10225	PCB-1221	11104-28-2	0.40	U	0.40	2.1		1
10225	PCB-1232	11141-16-5	0.40	U	0.40	2.1		1
10225	PCB-1242	53469-21-9	0.40	U	0.40	2.1		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.1		1
10225	PCB-1254	11097-69-1	5.6		0.40	2.1		1
10225	PCB-1260	11096-82-5	4.6		0.48	2.1		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.1		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.1		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-138-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA7-SS-0.0-0.5

LLI Sample # SW 6414146
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4803 SDG#: DE248-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	610		1
10501	Isopropanol	67-63-0	120	U	120	610		1
10501	Methanol	67-56-1	120	U	120	610		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	6.1	U	6.1	12		1
08283	Ethylene glycol	107-21-1	6.1	U	6.1	12		1
08283	Propylene glycol	57-55-6	6.1	U	6.1	12		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.3		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.3		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.3		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.9	U	4.9	15		10
10199	EFH (C15-C20)	n.a.	12	J	4.9	15		10
10199	EFH (C21-C30)	n.a.	71		4.9	15		10
10199	EFH (C30 - C40)	n.a.	280		4.9	15		10
10199	EFH (C8-C11)	n.a.	4.9	U	4.9	15		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,300		7.21	23.8		1
07914	Boron	7440-42-8	2.05	J	0.429	5.96		1
01650	Calcium	7440-70-2	3,500		2.98	23.8		1
01654	Iron	7439-89-6	18,400		3.11	23.8		1
01656	Lithium	7439-93-2	24.1		0.74	2.4		1
01657	Magnesium	7439-95-4	4,590		0.524	11.9		1
06958	Manganese	7439-96-5	232		0.0429	0.596		1
10145	Phosphorus	7723-14-0	503		0.417	11.9		1
01662	Potassium	7440-09-7	3,780		13.5	59.6		1
01667	Sodium	7440-23-5	233		7.09	119		1
07968	Strontium	7440-24-6	24.0		0.0298	0.596		1
06969	Tin	7440-31-5	3.48	J	0.381	11.9		1
06970	Titanium	7440-32-6	1,050		0.0854	1.20		1
10146	Zirconium	7440-67-7	1.93	J	0.548	5.96		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.177	J	0.0882	0.238		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.63		0.0953	0.477		2
06126	Barium	7440-39-3	84.6		0.126	0.477		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-138-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA7-SS-0.0-0.5

LLI Sample # SW 6414146
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4803 SDG#: DE248-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.482		0.0191	0.119		2
06128	Cadmium	7440-43-9	0.651		0.0524	0.119		2
06131	Chromium	7440-47-3	28.5		0.143	0.477		2
06132	Cobalt	7440-48-4	5.08		0.0238	0.119		2
06133	Copper	7440-50-8	12.8		0.0953	0.477		2
06135	Lead	7439-92-1	22.0		0.0122	0.238		2
06138	Molybdenum	7439-98-7	0.528		0.0596	0.119		2
06139	Nickel	7440-02-0	10.4		0.119	0.477		2
06141	Selenium	7782-49-2	0.166	J	0.0691	0.477		2
06142	Silver	7440-22-4	0.0734	J	0.0169	0.119		2
06145	Thallium	7440-28-0	0.271		0.0357	0.119		2
06148	Vanadium	7440-62-2	30.0		0.0262	0.119		2
06149	Zinc	7440-66-6	201		0.667	3.57		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0208	J	0.0085	0.121		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.96	U	0.96	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	11.0	U	11.0	36.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.25	U	0.25	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.23	U	0.23	0.63		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.35		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	18.5		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-138-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA7-SS-0.0-0.5

LLI Sample # SW 6414146
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4803 SDG#: DE248-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11269SLA026	10/04/2011 01:02	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLF026	10/04/2011 14:42	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLF026	09/28/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11269SLA026	09/28/2011 19:00	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670049A	09/30/2011 06:36	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670060A	10/03/2011 21:49	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670050A	09/29/2011 00:08	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112670060A	09/28/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670050A	09/28/2011 03:15	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670049A	09/28/2011 02:00	Kerrie A Freeburn	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112650034A	09/25/2011 00:28	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112720042A	09/29/2011 21:53	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112670044A	09/30/2011 06:26	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112680002A	10/02/2011 18:54	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112680002A	09/26/2011 11:00	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112670044A	09/27/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112650034A	09/23/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112720042A	09/29/2011 16:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112655708002	09/30/2011 18:32	John P Hook	1
07914	Boron	SW-846 6010B	1	112655708002	09/30/2011 18:32	John P Hook	1
01650	Calcium	SW-846 6010B	1	112655708002	09/30/2011 18:32	John P Hook	1
01654	Iron	SW-846 6010B	1	112655708002	09/30/2011 18:32	John P Hook	1
01656	Lithium	SW-846 6010B	1	112655708002	09/30/2011 18:32	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112655708002	09/30/2011 18:32	John P Hook	1
06958	Manganese	SW-846 6010B	1	112655708002	09/30/2011 18:32	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112655708002	09/30/2011 18:32	John P Hook	1
01662	Potassium	SW-846 6010B	1	112655708002	09/30/2011 18:32	John P Hook	1
01667	Sodium	SW-846 6010B	1	112655708002	09/30/2011 18:32	John P Hook	1
07968	Strontium	SW-846 6010B	1	112655708002	09/30/2011 18:32	John P Hook	1
06969	Tin	SW-846 6010B	1	112655708002	09/30/2011 18:32	John P Hook	1
06970	Titanium	SW-846 6010B	1	112765708002	10/04/2011 07:11	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112655708002	09/30/2011 18:32	John P Hook	1
06124	Antimony	SW-846 6020	1	112651026001A	09/23/2011 08:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112651026001A	09/23/2011 08:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112651026001D	09/23/2011 08:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112651026001A	09/23/2011 08:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112651026001A	09/23/2011 08:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112651026001A	09/23/2011 08:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112651026001A	09/23/2011 08:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112651026001A	09/23/2011 08:51	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-138-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA7-SS-0.0-0.5

LLI Sample # SW 6414146
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4803 SDG#: DE248-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	112651026001A	09/23/2011 08:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112651026001C	09/23/2011 08:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112651026001A	09/23/2011 08:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112651026001B	09/23/2011 08:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112651026001A	09/23/2011 08:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112651026001A	09/23/2011 08:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112651026001A	09/23/2011 08:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112651026001A	09/23/2011 08:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112655711001	09/23/2011 06:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112655708002	09/22/2011 21:29	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112765708002	10/03/2011 22:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112651026001	09/22/2011 21:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112655711001	09/23/2011 00:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11271621201A	09/28/2011 23:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11266621202A	10/04/2011 16:28	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243201A	10/05/2011 13:56	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11275102201A	10/03/2011 09:10	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11271621201A	09/28/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621202A	09/23/2011 06:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11275102201A	10/02/2011 22:35	James S Mathiot	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11272039401A	09/29/2011 10:30	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243201A	10/03/2011 10:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11270162402A	09/27/2011 21:20	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA7-SS-0.0-0.5

LLI Sample # SW 6414147
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:05

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4804 SDG#: DE248-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzo(g,h,i)perylene	191-24-2	160	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	50	J	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170		1
04688	Dibenz(a,h)anthracene	53-70-3	35	J	17	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	330		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170		1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	140	J	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	33	U	33	170		1
04688	4-Methylphenol	106-44-5	33	U	33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	33	U	33	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-005-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA7-SS-0.0-0.5

LLI Sample # SW 6414147
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:05

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4804 SDG#: DE248-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	14		3.3	8.3		5
10138	Acenaphthylene	208-96-8	2.7	J	1.7	8.3		5
10138	Anthracene	120-12-7	53		1.7	8.3		5
10138	Benzo(a)anthracene	56-55-3	270		3.3	8.3		5
10138	Benzo(a)pyrene	50-32-8	240		3.3	8.3		5
10138	Benzo(b)fluoranthene	205-99-2	390		3.3	8.3		5
10138	Benzo(k)fluoranthene	207-08-9	170		3.3	8.3		5
10138	Chrysene	218-01-9	300		1.7	8.3		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	170		30	89		5
10138	Fluoranthene	206-44-0	730		3.3	8.3		5
10138	Fluorene	86-73-7	10		3.3	8.3		5
10138	1-Methylnaphthalene	90-12-0	3.3	U	3.3	8.3		5
10138	2-Methylnaphthalene	91-57-6	3.3	U	3.3	8.3		5
10138	Naphthalene	91-20-3	3.3	U	3.3	8.3		5
10138	N-Nitrosodimethylamine	62-75-9	3.3	U	3.3	8.3		5
10138	Phenanthrene	85-01-8	280		3.3	8.3		5
10138	Pyrene	129-00-0	510		3.3	8.3		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	8.9		1
10401	2,4-DB	94-82-6	0.80	U	0.80	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.79	U	0.79	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.79	U	0.79	1.7		1
10401	MCPA	94-74-6	75	U	75	250		1
10401	MCPP (Mecoprop)	93-65-2	74	U	74	250		1
10401	2,4,5-T	93-76-5	0.73		0.081	0.17		1
10401	2,4,5-TP	93-72-1	0.074	U	0.074	0.17		1
	Reporting limits were raised due to interference from the sample matrix.							
	The recovery for Dinoseb is outside the QC limits. However, this compound does							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-005-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA7-SS-0.0-0.5

LLI Sample # SW 6414147
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:05

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4804 SDG#: DE248-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.80	U	0.80	3.4		1
01363	p,p-DDD	72-54-8	0.42	U	0.42	0.42		1
01363	p,p-DDE	72-55-9	0.17	U	0.17	0.34		1
01363	p,p-DDT	50-29-3	0.41	U	0.41	0.41		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.066	U	0.066	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.21	U	0.21	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34		1
01363	Endrin	72-20-8	0.17	U	0.17	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.27	U	0.27	0.34		1
01363	Endrin Ketone	53494-70-5	0.066	U	0.066	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.041	U	0.041	0.17		1
01363	Methoxychlor	72-43-5	1.2	U	1.2	1.7		1
01363	Mirex	2385-85-5	1.5	U	1.5	1.5		1
01363	Toxaphene	8001-35-2	10	U	10	10		1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: heptachlor epoxide							
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	The TCX surrogate recovery is below the client specified QC limit at 45%. Since the recovery is within our in-house statistical limits of 28-121%, the data is reported.							
	Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	2.9	J	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	2.5		0.33	1.7		1

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Sample Description: SL-005-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA7-SS-0.0-0.5

LLI Sample # SW 6414147
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:05

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4804 SDG#: DE248-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	1.9		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	100	U	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.0	U	4.0	12		10
10199	EFH (C15-C20)	n.a.	5.1	J	4.0	12		10
10199	EFH (C21-C30)	n.a.	72		4.0	12		10
10199	EFH (C30 - C40)	n.a.	390		4.0	12		10
10199	EFH (C8-C11)	n.a.	4.0	U	4.0	12		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,700		5.93	19.6		1
07914	Boron	7440-42-8	0.353	U	0.353	4.90		1
01650	Calcium	7440-70-2	3,260		2.45	19.6		1
01654	Iron	7439-89-6	21,200		2.56	19.6		1
01656	Lithium	7439-93-2	26.6		0.61	2.0		1
01657	Magnesium	7439-95-4	5,270		0.431	9.80		1
06958	Manganese	7439-96-5	289		0.0353	0.490		1
10145	Phosphorus	7723-14-0	417		0.343	9.80		1
01662	Potassium	7440-09-7	3,170		11.1	49.0		1
01667	Sodium	7440-23-5	74.6	J	5.83	98.0		1
07968	Strontium	7440-24-6	11.9		0.0245	0.490		1
06969	Tin	7440-31-5	2.90	J	0.314	9.80		1
06970	Titanium	7440-32-6	1,170		0.0703	0.990		1
10146	Zirconium	7440-67-7	2.48	J	0.451	4.90		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.140	J	0.0733	0.198		2

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Sample Description: **SL-005-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA7-SS-0.0-0.5

LLI Sample # SW 6414147
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:05

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4804 SDG#: DE248-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.57		0.0792	0.396		2
06126	Barium	7440-39-3	107		0.105	0.396		2
06127	Beryllium	7440-41-7	0.540		0.0158	0.0990		2
06128	Cadmium	7440-43-9	0.377		0.0436	0.0990		2
06131	Chromium	7440-47-3	20.6		0.119	0.396		2
06132	Cobalt	7440-48-4	6.46		0.0198	0.0990		2
06133	Copper	7440-50-8	10.1		0.0792	0.396		2
06135	Lead	7439-92-1	11.1		0.0101	0.198		2
06138	Molybdenum	7439-98-7	0.390		0.0495	0.0990		2
06139	Nickel	7440-02-0	12.9		0.0990	0.396		2
06141	Selenium	7782-49-2	0.142	J	0.0574	0.396		2
06142	Silver	7440-22-4	0.0321	J	0.0141	0.0990		2
06145	Thallium	7440-28-0	0.301		0.0297	0.0990		2
06148	Vanadium	7440-62-2	40.5		0.0218	0.0990		2
06149	Zinc	7440-66-6	141		0.554	2.97		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0142	J	0.0069	0.0981		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.0	U	9.0	30.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.34	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.63		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.50	U	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: **SL-005-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA7-SS-0.0-0.5

LLI Sample # SW 6414147
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:05

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4804 SDG#: DE248-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11269SLA026	10/02/2011 16:30	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLF026	10/04/2011 15:14	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLF026	09/28/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11269SLA026	09/28/2011 19:00	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670049A	09/30/2011 07:03	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670060A	10/04/2011 00:32	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670050A	09/29/2011 00:27	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112670060A	09/28/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670050A	09/28/2011 03:15	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670049A	09/28/2011 02:00	Kerrie A Freeburn	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112690024A	09/27/2011 02:32	Elizabeth J Marin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112690024A	09/28/2011 00:48	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112720042A	09/29/2011 22:05	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112670044A	09/30/2011 06:48	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112680002A	10/02/2011 19:18	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112680002A	09/26/2011 11:00	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112670044A	09/27/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112690024A	09/26/2011 20:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112720042A	09/29/2011 16:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112655708002	09/30/2011 18:36	John P Hook	1
07914	Boron	SW-846 6010B	1	112655708002	09/30/2011 18:36	John P Hook	1
01650	Calcium	SW-846 6010B	1	112655708002	09/30/2011 18:36	John P Hook	1
01654	Iron	SW-846 6010B	1	112655708002	09/30/2011 18:36	John P Hook	1
01656	Lithium	SW-846 6010B	1	112655708002	09/30/2011 18:36	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112655708002	09/30/2011 18:36	John P Hook	1
06958	Manganese	SW-846 6010B	1	112655708002	09/30/2011 18:36	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112655708002	09/30/2011 18:36	John P Hook	1
01662	Potassium	SW-846 6010B	1	112655708002	09/30/2011 18:36	John P Hook	1
01667	Sodium	SW-846 6010B	1	112655708002	09/30/2011 18:36	John P Hook	1
07968	Strontium	SW-846 6010B	1	112655708002	09/30/2011 18:36	John P Hook	1
06969	Tin	SW-846 6010B	1	112655708002	09/30/2011 18:36	John P Hook	1
06970	Titanium	SW-846 6010B	1	112765708002	10/04/2011 07:15	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112655708002	09/30/2011 18:36	John P Hook	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-005-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA7-SS-0.0-0.5

LLI Sample # SW 6414147
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:05

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4804 SDG#: DE248-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112651026001A	09/23/2011 08:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112651026001A	09/23/2011 08:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112651026001D	09/23/2011 08:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112651026001A	09/23/2011 08:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112651026001A	09/23/2011 08:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112651026001A	09/23/2011 08:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112651026001A	09/23/2011 08:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112651026001A	09/23/2011 08:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112651026001A	09/23/2011 08:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112651026001C	09/23/2011 08:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112651026001A	09/23/2011 08:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112651026001B	09/23/2011 08:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112651026001A	09/23/2011 08:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112651026001A	09/23/2011 08:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112651026001A	09/23/2011 08:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112651026001A	09/23/2011 08:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112655711001	09/23/2011 06:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112655708002	09/22/2011 21:29	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112765708002	10/03/2011 22:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112651026001	09/22/2011 21:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112655711001	09/23/2011 00:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11271621201A	09/29/2011 00:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11266621202A	10/04/2011 16:51	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243201A	10/05/2011 14:17	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11275102201A	10/03/2011 09:12	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11271621201A	09/28/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621202A	09/23/2011 06:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11275102201A	10/02/2011 22:35	James S Mathiot	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11272039401A	09/29/2011 10:30	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243201A	10/03/2011 10:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11270162402A	09/27/2011 21:20	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-006-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA7-SS-0.0-0.5

LLI Sample # SW 6414148
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 10:40

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4805 SDG#: DE248-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Sample Description: **SL-006-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA7-SS-0.0-0.5

LLI Sample # SW 6414148
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 10:40

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4805 SDG#: DE248-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.3	U	3.3	8.3		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.3		5
10138	Anthracene	120-12-7	2.4	J	1.7	8.3		5
10138	Benzo(a)anthracene	56-55-3	15		3.3	8.3		5
10138	Benzo(a)pyrene	50-32-8	17		3.3	8.3		5
10138	Benzo(b)fluoranthene	205-99-2	29		3.3	8.3		5
10138	Benzo(g,h,i)perylene	191-24-2	10		3.3	8.3		5
10138	Benzo(k)fluoranthene	207-08-9	11		3.3	8.3		5
10138	Chrysene	218-01-9	21		1.7	8.3		5
10138	Dibenz(a,h)anthracene	53-70-3	3.3	U	3.3	8.3		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	85	J	30	90		5
10138	Fluoranthene	206-44-0	41		3.3	8.3		5
10138	Fluorene	86-73-7	3.3	U	3.3	8.3		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	9.3		3.3	8.3		5
10138	1-Methylnaphthalene	90-12-0	3.3	U	3.3	8.3		5
10138	2-Methylnaphthalene	91-57-6	3.3	U	3.3	8.3		5
10138	Naphthalene	91-20-3	3.3	U	3.3	8.3		5
10138	N-Nitrosodimethylamine	62-75-9	3.3	U	3.3	8.3		5
10138	Phenanthrene	85-01-8	18		3.3	8.3		5
10138	Pyrene	129-00-0	32		3.3	8.3		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	1.2	U	1.2	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U	0.87	1.7		1
10401	MCPA	94-74-6	76	U	76	250		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.13	U	0.13	0.17		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1
	Reporting limits were raised due to interference from the sample matrix.							

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Sample Description: **SL-006-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA7-SS-0.0-0.5

LLI Sample # SW 6414148
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 10:40

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4805 SDG#: DE248-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.80	U	0.80	3.4		1
01363	p,p-DDD	72-54-8	0.066	U	0.066	0.34		1
01363	p,p-DDE	72-55-9	0.077	U	0.077	0.34		1
01363	p,p-DDT	50-29-3	0.25	U	0.25	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.066	U	0.066	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.066	U	0.066	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34		1
01363	Endrin	72-20-8	0.066	U	0.066	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.12	U	0.12	0.34		1
01363	Endrin Ketone	53494-70-5	0.066	U	0.066	0.34		1
01363	Heptachlor	76-44-8	0.089	J	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.6		1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: heptachlor epoxide Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The TCX surrogate recovery is below the client specified QC limit at 43%. Since the recovery is within our in-house statistical limits of 28-121%, the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	3.0	J	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	2.9		0.33	1.7		1
10225	PCB-1260	11096-82-5	1.8		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1

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Sample Description: **SL-006-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA7-SS-0.0-0.5

LLI Sample # SW 6414148
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 10:40

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E4805 SDG#: DE248-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	110	J	100	500		1
10501	Methanol	67-56-1	100	U	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.0	U	2.0	6.0		5
10199	EFH (C15-C20)	n.a.	11		2.0	6.0		5
10199	EFH (C21-C30)	n.a.	100		2.0	6.0		5
10199	EFH (C30 - C40)	n.a.	100		2.0	6.0		5
10199	EFH (C8-C11)	n.a.	2.0	U	2.0	6.0		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,000		6.03	19.9		1
07914	Boron	7440-42-8	0.359	U	0.359	4.98		1
01650	Calcium	7440-70-2	3,150		2.49	19.9		1
01654	Iron	7439-89-6	21,900		2.60	19.9		1
01656	Lithium	7439-93-2	26.0		0.62	2.0		1
01657	Magnesium	7439-95-4	4,940		0.438	9.96		1
06958	Manganese	7439-96-5	290		0.0359	0.498		1
10145	Phosphorus	7723-14-0	451		0.349	9.96		1
01662	Potassium	7440-09-7	3,960		11.3	49.8		1
01667	Sodium	7440-23-5	65.3	J	5.93	99.6		1
07968	Strontium	7440-24-6	12.3		0.0249	0.498		1
06969	Tin	7440-31-5	2.97	J	0.319	9.96		1
06970	Titanium	7440-32-6	1,090		0.0700	0.986		1
10146	Zirconium	7440-67-7	2.54	J	0.458	4.98		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.235		0.0723	0.195		2

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Sample Description: **SL-006-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA7-SS-0.0-0.5

LLI Sample # SW 6414148
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 10:40

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4805 SDG#: DE248-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.03		0.0781	0.391		2
06126	Barium	7440-39-3	120		0.104	0.391		2
06127	Beryllium	7440-41-7	0.665		0.0156	0.0977		2
06128	Cadmium	7440-43-9	0.230		0.0430	0.0977		2
06131	Chromium	7440-47-3	24.1		0.117	0.391		2
06132	Cobalt	7440-48-4	7.87		0.0195	0.0977		2
06133	Copper	7440-50-8	12.5		0.0781	0.391		2
06135	Lead	7439-92-1	14.4		0.010	0.195		2
06138	Molybdenum	7439-98-7	0.616		0.0488	0.0977		2
06139	Nickel	7440-02-0	15.9		0.0977	0.391		2
06141	Selenium	7782-49-2	0.151	J	0.0566	0.391		2
06142	Silver	7440-22-4	0.0674	J	0.0139	0.0977		2
06145	Thallium	7440-28-0	0.368		0.0293	0.0977		2
06148	Vanadium	7440-62-2	44.6		0.0215	0.0977		2
06149	Zinc	7440-66-6	94.3		0.547	2.93		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0124	J	0.0069	0.0981		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.98		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.58		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: **SL-006-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA7-SS-0.0-0.5

LLI Sample # SW 6414148
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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Chantilly VA 20151

E4805 SDG#: DE248-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11269SLA026	10/02/2011 16:55	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLF026	10/04/2011 15:46	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLF026	09/28/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11269SLA026	09/28/2011 19:00	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670049A	09/30/2011 07:31	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670060A	10/03/2011 22:04	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670050A	09/29/2011 00:45	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112670060A	09/28/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670050A	09/28/2011 03:15	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670049A	09/28/2011 02:00	Kerrie A Freeburn	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112690024A	09/27/2011 02:47	Elizabeth J Marin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112690024A	09/28/2011 01:05	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112720042A	09/29/2011 22:18	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112670044A	09/30/2011 02:45	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112680002A	10/02/2011 18:06	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112680002A	09/26/2011 11:00	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112670044A	09/27/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112690024A	09/26/2011 20:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112720042A	09/29/2011 16:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112655708002	09/30/2011 18:40	John P Hook	1
07914	Boron	SW-846 6010B	1	112655708002	09/30/2011 18:40	John P Hook	1
01650	Calcium	SW-846 6010B	1	112655708002	09/30/2011 18:40	John P Hook	1
01654	Iron	SW-846 6010B	1	112655708002	09/30/2011 18:40	John P Hook	1
01656	Lithium	SW-846 6010B	1	112655708002	09/30/2011 18:40	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112655708002	09/30/2011 18:40	John P Hook	1
06958	Manganese	SW-846 6010B	1	112655708002	09/30/2011 18:40	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112655708002	09/30/2011 18:40	John P Hook	1
01662	Potassium	SW-846 6010B	1	112655708002	09/30/2011 18:40	John P Hook	1
01667	Sodium	SW-846 6010B	1	112655708002	09/30/2011 18:40	John P Hook	1
07968	Strontium	SW-846 6010B	1	112655708002	09/30/2011 18:40	John P Hook	1
06969	Tin	SW-846 6010B	1	112655708002	09/30/2011 18:40	John P Hook	1
06970	Titanium	SW-846 6010B	1	112765708002	10/04/2011 07:19	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112655708002	09/30/2011 18:40	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-006-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA7-SS-0.0-0.5

LLI Sample # SW 6414148
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 10:40

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4805 SDG#: DE248-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112651026001A	09/23/2011 08:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112651026001A	09/23/2011 08:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112651026001D	09/23/2011 08:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112651026001A	09/23/2011 08:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112651026001A	09/23/2011 08:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112651026001A	09/23/2011 08:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112651026001A	09/23/2011 08:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112651026001A	09/23/2011 08:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112651026001A	09/23/2011 08:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112651026001C	09/23/2011 08:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112651026001A	09/23/2011 08:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112651026001B	09/23/2011 08:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112651026001A	09/23/2011 08:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112651026001A	09/23/2011 08:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112651026001A	09/23/2011 08:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112651026001A	09/23/2011 08:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112655711001	09/23/2011 07:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112655708002	09/22/2011 21:29	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112765708002	10/03/2011 22:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112651026001	09/22/2011 21:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112655711001	09/23/2011 00:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11271621201A	09/29/2011 00:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11266621202A	10/04/2011 17:14	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243201A	10/05/2011 14:24	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11275102201A	10/03/2011 09:13	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11271621201A	09/28/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621202A	09/23/2011 06:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11275102201A	10/02/2011 22:35	James S Mathiot	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11272039401A	09/29/2011 10:30	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243201A	10/03/2011 10:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11270162402A	09/27/2011 21:20	Scott W Freisher	1

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Analysis Report

Sample Description: SL-043-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA7-SS-0.0-0.5

LLI Sample # SW 6414149
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 13:55

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4806 SDG#: DE248-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	167	U	167	333		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	330		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170		1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	33	U	33	170		1
04688	4-Methylphenol	106-44-5	33	U	33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	33	U	33	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1

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Sample Description: **SL-043-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-043-SA7-SS-0.0-0.5

LLI Sample # SW 6414149
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 13:55

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4806 SDG#: DE248-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.3	U	3.3	8.3		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.3		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.3		5
10138	Benzo(a)anthracene	56-55-3	3.3	U	3.3	8.3		5
10138	Benzo(a)pyrene	50-32-8	3.3	U	3.3	8.3		5
10138	Benzo(b)fluoranthene	205-99-2	3.4	J	3.3	8.3		5
10138	Benzo(g,h,i)perylene	191-24-2	3.3	U	3.3	8.3		5
10138	Benzo(k)fluoranthene	207-08-9	3.3	U	3.3	8.3		5
10138	Chrysene	218-01-9	1.7	U	1.7	8.3		5
10138	Dibenz(a,h)anthracene	53-70-3	3.3	U	3.3	8.3		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	80	J	30	89		5
10138	Fluoranthene	206-44-0	3.3	U	3.3	8.3		5
10138	Fluorene	86-73-7	3.3	U	3.3	8.3		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.3	U	3.3	8.3		5
10138	1-Methylnaphthalene	90-12-0	3.3	U	3.3	8.3		5
10138	2-Methylnaphthalene	91-57-6	3.3	U	3.3	8.3		5
10138	Naphthalene	91-20-3	3.3	U	3.3	8.3		5
10138	N-Nitrosodimethylamine	62-75-9	3.3	U	3.3	8.3		5
10138	Phenanthrene	85-01-8	3.3	U	3.3	8.3		5
10138	Pyrene	129-00-0	3.3	U	3.3	8.3		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	8.9		1
10401	2,4-DB	94-82-6	4.3		0.61	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.79	U	0.79	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.79	U	0.79	1.7		1
10401	MCPA	94-74-6	75	U	75	250		1
10401	MCPP (Mecoprop)	93-65-2	74	U	74	250		1

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Sample Description: SL-043-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA7-SS-0.0-0.5

LLI Sample # SW 6414149
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 13:55

Submitted: 09/21/2011 09:00
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Suite 210
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E4806 SDG#: DE248-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4,5-T	93-76-5	0.83		0.081	0.17		1
10401	2,4,5-TP	93-72-1	0.074	U	0.074	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	600	U	600	1,500		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.80	U	0.80	3.4		1
01363	p,p-DDD	72-54-8	0.066	U	0.066	0.34		1
01363	p,p-DDE	72-55-9	0.066	U	0.066	0.34		1
01363	p,p-DDT	50-29-3	0.21	U	0.21	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.066	U	0.066	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.066	U	0.066	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34		1
01363	Endrin	72-20-8	0.066	U	0.066	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.066	U	0.066	0.34		1
01363	Endrin Ketone	53494-70-5	0.066	U	0.066	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.19	U	0.19	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.6		1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: heptachlor epoxide							
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	2.7	J	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-043-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA7-SS-0.0-0.5

LLI Sample # SW 6414149
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 13:55

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4806 SDG#: DE248-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.98	J	0.33	1.7		1
10225	PCB-1260	11096-82-5	1.0	J	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	100	U	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	1.3		0.40	1.2		1
10199	EFH (C21-C30)	n.a.	11		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	31		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.40	U	0.40	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,100		5.82	19.2		1
07914	Boron	7440-42-8	0.346	U	0.346	4.81		1
01650	Calcium	7440-70-2	2,760		2.40	19.2		1
01654	Iron	7439-89-6	18,800		2.51	19.2		1
01656	Lithium	7439-93-2	24.6		0.60	1.9		1
01657	Magnesium	7439-95-4	4,070		0.423	9.62		1
06958	Manganese	7439-96-5	252		0.0346	0.481		1
10145	Phosphorus	7723-14-0	351		0.337	9.62		1
01662	Potassium	7440-09-7	3,070		10.9	48.1		1
01667	Sodium	7440-23-5	61.8	J	5.72	96.2		1
07968	Strontium	7440-24-6	12.1		0.0240	0.481		1
06969	Tin	7440-31-5	2.80	J	0.308	9.62		1
06970	Titanium	7440-32-6	1,110		0.0703	0.990		1
10146	Zirconium	7440-67-7	2.50	J	0.442	4.81		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-043-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA7-SS-0.0-0.5

LLI Sample # SW 6414149
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 13:55

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4806 SDG#: DE248-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.115	J	0.0718	0.194		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.58		0.0777	0.388		2
06126	Barium	7440-39-3	97.2		0.103	0.388		2
06127	Beryllium	7440-41-7	0.563		0.0155	0.0971		2
06128	Cadmium	7440-43-9	0.134		0.0427	0.0971		2
06131	Chromium	7440-47-3	16.4		0.117	0.388		2
06132	Cobalt	7440-48-4	5.96		0.0194	0.0971		2
06133	Copper	7440-50-8	8.42		0.0777	0.388		2
06135	Lead	7439-92-1	6.95		0.0099	0.194		2
06138	Molybdenum	7439-98-7	0.359		0.0485	0.0971		2
06139	Nickel	7440-02-0	11.1		0.0971	0.388		2
06141	Selenium	7782-49-2	0.109	J	0.0563	0.388		2
06142	Silver	7440-22-4	0.0416	J	0.0138	0.0971		2
06145	Thallium	7440-28-0	0.302		0.0291	0.0971		2
06148	Vanadium	7440-62-2	32.9		0.0214	0.0971		2
06149	Zinc	7440-66-6	71.5		0.544	2.91		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0079	J	0.0070	0.0990		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.2		0.81	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.0	U	9.0	30.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.92		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.50	U	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-043-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA7-SS-0.0-0.5

LLI Sample # SW 6414149
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 13:55

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4806 SDG#: DE248-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11269SLB026	10/03/2011 23:31	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11269SLA026	10/02/2011 17:20	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLF026	10/04/2011 16:19	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11269SLB026	09/28/2011 14:00	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLF026	09/28/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11269SLA026	09/28/2011 19:00	Sally L Appleyard	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670008A	09/28/2011 19:20	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670049A	09/30/2011 07:58	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670060A	10/03/2011 22:19	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670050A	09/29/2011 01:04	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112670060A	09/28/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670050A	09/28/2011 03:15	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670049A	09/28/2011 02:00	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670008A	09/26/2011 14:30	Wanda F Oswald	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112690024A	09/27/2011 03:02	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112720042A	09/29/2011 22:31	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112670044A	09/30/2011 03:07	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112680002A	10/02/2011 17:19	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112680002A	09/26/2011 11:00	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112670044A	09/27/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112690024A	09/26/2011 20:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112720042A	09/29/2011 16:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112655708002	09/30/2011 18:44	John P Hook	1
07914	Boron	SW-846 6010B	1	112655708002	09/30/2011 18:44	John P Hook	1
01650	Calcium	SW-846 6010B	1	112655708002	09/30/2011 18:44	John P Hook	1
01654	Iron	SW-846 6010B	1	112655708002	09/30/2011 18:44	John P Hook	1
01656	Lithium	SW-846 6010B	1	112655708002	09/30/2011 18:44	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112655708002	09/30/2011 18:44	John P Hook	1
06958	Manganese	SW-846 6010B	1	112655708002	09/30/2011 18:44	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112655708002	09/30/2011 18:44	John P Hook	1
01662	Potassium	SW-846 6010B	1	112655708002	09/30/2011 18:44	John P Hook	1
01667	Sodium	SW-846 6010B	1	112655708002	09/30/2011 18:44	John P Hook	1

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-043-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-043-SA7-SS-0.0-0.5

LLI Sample # SW 6414149
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 13:55

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4806 SDG#: DE248-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112655708002	09/30/2011 18:44	John P Hook	1
06969	Tin	SW-846 6010B	1	112655708002	09/30/2011 18:44	John P Hook	1
06970	Titanium	SW-846 6010B	1	112765708002	10/04/2011 07:23	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112655708002	09/30/2011 18:44	John P Hook	1
06124	Antimony	SW-846 6020	1	112651026001A	09/23/2011 09:01	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112651026001A	09/23/2011 09:01	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112651026001D	09/23/2011 09:01	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112651026001A	09/23/2011 09:01	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112651026001A	09/23/2011 09:01	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112651026001A	09/23/2011 09:01	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112651026001A	09/23/2011 09:01	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112651026001A	09/23/2011 09:01	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112651026001A	09/23/2011 09:01	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112651026001C	09/23/2011 09:01	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112651026001A	09/23/2011 09:01	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112651026001B	09/23/2011 09:01	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112651026001A	09/23/2011 09:01	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112651026001A	09/23/2011 09:01	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112651026001A	09/23/2011 09:01	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112651026001A	09/23/2011 09:01	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112655711001	09/23/2011 07:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112655708002	09/22/2011 21:29	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112765708002	10/03/2011 22:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112651026001	09/22/2011 21:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112655711001	09/23/2011 00:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11271621201A	09/29/2011 00:37	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11271621201A	09/29/2011 00:37	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11266621202A	10/04/2011 17:37	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243201A	10/05/2011 14:39	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11271621201A	09/28/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621202A	09/23/2011 06:05	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11272039401A	09/29/2011 10:30	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243201A	10/03/2011 10:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11270162402A	09/27/2011 21:20	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-046-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA7-SS-0.0-0.5

LLI Sample # SW 6414150
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 10:15

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4807 SDG#: DE248-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	168	U	168	335		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(a)anthracene	56-55-3	27	J	17	170		1
04688	Benzo(a)pyrene	50-32-8	31	J	17	170		1
04688	Benzo(b)fluoranthene	205-99-2	52	J	17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	25	J	17	170		1
04688	Benzo(k)fluoranthene	207-08-9	23	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Chrysene	218-01-9	34	J	17	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	39	J	17	340		1
04688	Fluoranthene	206-44-0	63	J	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	25	J	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1

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Sample Description: SL-046-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA7-SS-0.0-0.5

LLI Sample # SW 6414150
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 10:15

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4807 SDG#: DE248-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenanthrene	85-01-8	33	J	17	170		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	64	J	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.3	U	3.3	8.3		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.3		5
10138	Anthracene	120-12-7	3.4	J	1.7	8.3		5
10138	Dibenz(a,h)anthracene	53-70-3	3.3	U	3.3	8.3		5
10138	Fluorene	86-73-7	3.3	U	3.3	8.3		5
10138	1-Methylnaphthalene	90-12-0	3.3	U	3.3	8.3		5
10138	2-Methylnaphthalene	91-57-6	3.3	U	3.3	8.3		5
10138	Naphthalene	91-20-3	3.3	U	3.3	8.3		5
10138	N-Nitrosodimethylamine	62-75-9	3.3	U	3.3	8.3		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	40	U	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1

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Sample Description: **SL-046-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA7-SS-0.0-0.5

LLI Sample # SW 6414150
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 10:15

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4807 SDG#: DE248-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	40	U	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	40	U	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	40	U	40	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	40	U	40	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	50	U	50	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	40	U	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	40	U	40	120	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	4.2		0.62	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17		1

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	1.1	J	0.80	3.4		1
01363	p,p-DDD	72-54-8	0.066	U	0.066	0.34		1
01363	p,p-DDE	72-55-9	0.066	U	0.066	0.34		1
01363	p,p-DDT	50-29-3	0.31	U	0.31	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.066	U	0.066	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.078	U	0.078	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34		1
01363	Endrin	72-20-8	0.066	U	0.066	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.066	U	0.066	0.34		1
01363	Endrin Ketone	53494-70-5	0.066	U	0.066	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.066	U	0.066	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.6		1

The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards.
The following analyte is accepted based on this allowance: heptachlor epoxide

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.7	J	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.75	J	0.33	1.7		1
10225	PCB-1260	11096-82-5	1.2	J	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	310	J	100	500		1

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SL-046-SA7-SS-0.0-0.5

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.0	U	2.0	6.0		5
10199	EFH (C15-C20)	n.a.	3.3	J	2.0	6.0		5
10199	EFH (C21-C30)	n.a.	21		2.0	6.0		5
10199	EFH (C30 - C40)	n.a.	120		2.0	6.0		5
10199	EFH (C8-C11)	n.a.	2.0	U	2.0	6.0		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,100		5.99	19.8		1
07914	Boron	7440-42-8	0.356	U	0.356	4.95		1
01650	Calcium	7440-70-2	2,680		2.47	19.8		1
01654	Iron	7439-89-6	21,900		2.58	19.8		1
01656	Lithium	7439-93-2	26.5		0.61	2.0		1
01657	Magnesium	7439-95-4	5,190		0.435	9.90		1
06958	Manganese	7439-96-5	276		0.0356	0.495		1
10145	Phosphorus	7723-14-0	434		0.346	9.90		1
01662	Potassium	7440-09-7	3,490		11.2	49.5		1
01667	Sodium	7440-23-5	68.6	J	5.89	99.0		1
07968	Strontium	7440-24-6	9.63		0.0247	0.495		1
06969	Tin	7440-31-5	2.85	J	0.317	9.90		1
06970	Titanium	7440-32-6	1,180		0.0696	0.980		1
10146	Zirconium	7440-67-7	2.60	J	0.455	4.95		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.210		0.0732	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.88		0.0792	0.396		2
06126	Barium	7440-39-3	134		0.105	0.396		2
06127	Beryllium	7440-41-7	0.694		0.0158	0.0990		2
06128	Cadmium	7440-43-9	0.180		0.0435	0.0990		2
06131	Chromium	7440-47-3	25.8		0.119	0.396		2
06132	Cobalt	7440-48-4	8.64		0.0198	0.0990		2
06133	Copper	7440-50-8	13.4		0.0792	0.396		2

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SSFL Area IV Collocated Soil Sampling
SL-046-SA7-SS-0.0-0.5

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Metals	**SW-846 6020**		mg/kg		mg/kg	mg/kg	mg/kg	
06135	Lead	7439-92-1	10.7		0.0101	0.198		2
06138	Molybdenum	7439-98-7	0.587		0.0495	0.0990		2
06139	Nickel	7440-02-0	17.7		0.0990	0.396		2
06141	Selenium	7782-49-2	0.155	J	0.0574	0.396		2
06142	Silver	7440-22-4	0.0405	J	0.0141	0.0990		2
06145	Thallium	7440-28-0	0.399		0.0297	0.0990		2
06148	Vanadium	7440-62-2	52.2		0.0218	0.0990		2
06149	Zinc	7440-66-6	99.8		0.554	2.97		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0075	J	0.0070	0.0996		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.1	J	0.82	1.5		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	16a Cyanide by 9012B	57-12-5	0.17	U	0.17	0.47		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	6.88		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	0.93		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11269SLB026	10/03/2011 23:51	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11269SLA026	10/02/2011 18:21	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLF026	10/04/2011 16:51	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11269SLB026	09/28/2011 14:00	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLF026	09/28/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11269SLA026	09/28/2011 19:00	Sally L Appleyard	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112690016A	10/04/2011 09:51	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670008A	09/28/2011 19:30	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670049A	09/30/2011 08:26	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670060A	10/03/2011 23:18	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670050A	09/29/2011 01:23	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112670060A	09/28/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670050A	09/28/2011 03:15	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670049A	09/28/2011 02:00	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670008A	09/26/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112690016A	09/29/2011 14:30	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112690024A	09/27/2011 03:16	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112720042A	09/29/2011 22:44	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112670044A	09/30/2011 03:51	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112680002A	10/02/2011 18:30	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112680002A	09/26/2011 11:00	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112670044A	09/27/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112690024A	09/26/2011 20:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112720042A	09/29/2011 16:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112655708002	09/30/2011 18:47	John P Hook	1
07914	Boron	SW-846 6010B	1	112655708002	09/30/2011 18:47	John P Hook	1
01650	Calcium	SW-846 6010B	1	112655708002	09/30/2011 18:47	John P Hook	1
01654	Iron	SW-846 6010B	1	112655708002	09/30/2011 18:47	John P Hook	1
01656	Lithium	SW-846 6010B	1	112655708002	09/30/2011 18:47	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112655708002	09/30/2011 18:47	John P Hook	1
06958	Manganese	SW-846 6010B	1	112655708002	09/30/2011 18:47	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112655708002	09/30/2011 18:47	John P Hook	1
01662	Potassium	SW-846 6010B	1	112655708002	09/30/2011 18:47	John P Hook	1
01667	Sodium	SW-846 6010B	1	112655708002	09/30/2011 18:47	John P Hook	1
07968	Strontium	SW-846 6010B	1	112655708002	09/30/2011 18:47	John P Hook	1
06969	Tin	SW-846 6010B	1	112655708002	09/30/2011 18:47	John P Hook	1
06970	Titanium	SW-846 6010B	1	112765708002	10/04/2011 07:27	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112655708002	09/30/2011 18:47	John P Hook	1
06124	Antimony	SW-846 6020	1	112651026001A	09/23/2011 09:04	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-046-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA7-SS-0.0-0.5

LLI Sample # SW 6414150
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 10:15

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4807 SDG#: DE248-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	112651026001A	09/23/2011 09:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112651026001D	09/23/2011 09:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112651026001A	09/23/2011 09:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112651026001A	09/23/2011 09:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112651026001A	09/23/2011 09:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112651026001A	09/23/2011 09:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112651026001A	09/23/2011 09:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112651026001A	09/23/2011 09:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112651026001C	09/23/2011 09:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112651026001A	09/23/2011 09:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112651026001B	09/23/2011 09:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112651026001A	09/23/2011 09:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112651026001A	09/23/2011 09:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112651026001A	09/23/2011 09:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112651026001A	09/23/2011 09:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112655711001	09/23/2011 07:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112655708002	09/22/2011 21:29	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112765708002	10/03/2011 22:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112651026001	09/22/2011 21:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112655711001	09/23/2011 00:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11271621201A	09/29/2011 00:52	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11271621201A	09/29/2011 00:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11266621202A	10/04/2011 18:00	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243201A	10/05/2011 14:53	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11275102201A	10/03/2011 09:14	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11271621201A	09/28/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621202A	09/23/2011 06:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11275102201A	10/02/2011 22:35	James S Mathiot	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11272039401A	09/29/2011 10:30	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243201A	10/03/2011 10:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11284162401A	10/11/2011 18:27	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-047-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA7-SS-0.0-0.5

LLI Sample # SW 6414151
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:00

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4808 SDG#: DE248-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	169	U	169	337		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	88	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-047-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA7-SS-0.0-0.5

LLI Sample # SW 6414151
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:00

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4808 SDG#: DE248-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.3	U	3.3	8.3		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.3		5
10138	Anthracene	120-12-7	2.4	J	1.7	8.3		5
10138	Benzo(a)anthracene	56-55-3	11		3.3	8.3		5
10138	Benzo(a)pyrene	50-32-8	13		3.3	8.3		5
10138	Benzo(b)fluoranthene	205-99-2	28		3.3	8.3		5
10138	Benzo(g,h,i)perylene	191-24-2	7.5	J	3.3	8.3		5
10138	Benzo(k)fluoranthene	207-08-9	9.2		3.3	8.3		5
10138	Chrysene	218-01-9	16		1.7	8.3		5
10138	Dibenz(a,h)anthracene	53-70-3	3.3	U	3.3	8.3		5
10138	Fluoranthene	206-44-0	37		3.3	8.3		5
10138	Fluorene	86-73-7	3.3	U	3.3	8.3		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	6.1	J	3.3	8.3		5
10138	1-Methylnaphthalene	90-12-0	3.3	U	3.3	8.3		5
10138	2-Methylnaphthalene	91-57-6	3.3	U	3.3	8.3		5
10138	Naphthalene	91-20-3	3.3	U	3.3	8.3		5
10138	N-Nitrosodimethylamine	62-75-9	3.3	U	3.3	8.3		5
10138	Phenanthrene	85-01-8	14		3.3	8.3		5
10138	Pyrene	129-00-0	30		3.3	8.3		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	40	U	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-047-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-047-SA7-SS-0.0-0.5

LLI Sample # SW 6414151
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:00

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4808 SDG#: DE248-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3-Dinitrobenzene	99-65-0	40	U	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	40	U	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	40	U	40	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	40	U	40	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	40	U	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	40	U	40	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	1.9		0.62	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.17	U	0.17	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

Reporting limits were raised due to interference from the sample matrix.
The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-047-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-047-SA7-SS-0.0-0.5

LLI Sample # SW 6414151
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:00

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4808 SDG#: DE248-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.049	J	0.034	0.17		1
01363	Chlordane	57-74-9	4.1		0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.067	U	0.067	0.34		1
01363	p,p-DDT	50-29-3	0.20	U	0.20	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.086	U	0.086	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.17	U	0.17	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards.
The following analyte is accepted based on this allowance: heptachlor epoxide

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

The DCB surrogate recovery is outside the client specified QC limit at 124%. Since the recovery is within our in-house statistical limits of 45-150%, the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.5	J	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	1.3	J	0.33	1.7		1
10225	PCB-1260	11096-82-5	1.5	J	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-047-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-047-SA7-SS-0.0-0.5

LLI Sample # SW 6414151
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:00

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4808 SDG#: DE248-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	330	J	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.0	U	4.0	12		10
10199	EFH (C15-C20)	n.a.	4.0	U	4.0	12		10
10199	EFH (C21-C30)	n.a.	51		4.0	12		10
10199	EFH (C30 - C40)	n.a.	280		4.0	12		10
10199	EFH (C8-C11)	n.a.	4.0	U	4.0	12		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,000		6.12	20.2		1
07914	Boron	7440-42-8	0.364	U	0.364	5.06		1
01650	Calcium	7440-70-2	2,620		2.53	20.2		1
01654	Iron	7439-89-6	19,400		2.64	20.2		1
01656	Lithium	7439-93-2	24.5		0.63	2.0		1
01657	Magnesium	7439-95-4	4,260		0.445	10.1		1
06958	Manganese	7439-96-5	257		0.0364	0.506		1
10145	Phosphorus	7723-14-0	359		0.354	10.1		1
01662	Potassium	7440-09-7	3,250		11.4	50.6		1
01667	Sodium	7440-23-5	64.4	J	6.02	101		1
07968	Strontium	7440-24-6	12.0		0.0253	0.506		1
06969	Tin	7440-31-5	2.76	J	0.324	10.1		1
06970	Titanium	7440-32-6	1,110		0.0705	0.992		1
10146	Zirconium	7440-67-7	2.45	J	0.466	5.06		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.166	J	0.0734	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.31		0.0794	0.397		2
06126	Barium	7440-39-3	105		0.105	0.397		2

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Sample Description: **SL-047-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-047-SA7-SS-0.0-0.5

LLI Sample # SW 6414151
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:00

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4808 SDG#: DE248-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.570		0.0159	0.0992		2
06128	Cadmium	7440-43-9	0.194		0.0437	0.0992		2
06131	Chromium	7440-47-3	18.4		0.119	0.397		2
06132	Cobalt	7440-48-4	6.16		0.0198	0.0992		2
06133	Copper	7440-50-8	9.35		0.0794	0.397		2
06135	Lead	7439-92-1	8.29		0.0101	0.198		2
06138	Molybdenum	7439-98-7	0.469		0.0496	0.0992		2
06139	Nickel	7440-02-0	12.1		0.0992	0.397		2
06141	Selenium	7782-49-2	0.122	J	0.0576	0.397		2
06142	Silver	7440-22-4	0.0310	J	0.0141	0.0992		2
06145	Thallium	7440-28-0	0.312		0.0298	0.0992		2
06148	Vanadium	7440-62-2	37.2		0.0218	0.0992		2
06149	Zinc	7440-66-6	90.0		0.556	2.98		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0070	U	0.0070	0.0992		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.81	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.29	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.55		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.2		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-047-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-047-SA7-SS-0.0-0.5

LLI Sample # SW 6414151
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:00

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4808 SDG#: DE248-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11269SLB026	10/04/2011 00:10	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11269SLA026	10/02/2011 18:46	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLF026	10/04/2011 17:23	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11269SLB026	09/28/2011 14:00	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLF026	09/28/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11269SLA026	09/28/2011 19:00	Sally L Appleyard	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112690016A	10/04/2011 10:33	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670008A	09/28/2011 19:53	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670049A	09/30/2011 09:48	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670060A	10/03/2011 23:33	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670050A	09/29/2011 01:42	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112670060A	09/28/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670050A	09/28/2011 03:15	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670049A	09/28/2011 02:00	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670008A	09/26/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112690016A	09/29/2011 14:30	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112690024A	09/27/2011 03:31	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112720042A	09/29/2011 22:57	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112670044A	09/30/2011 04:14	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112680002A	10/02/2011 19:42	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112680002A	09/26/2011 11:00	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112670044A	09/27/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112690024A	09/26/2011 20:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112720042A	09/29/2011 16:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112655708002	09/30/2011 18:51	John P Hook	1
07914	Boron	SW-846 6010B	1	112655708002	09/30/2011 18:51	John P Hook	1
01650	Calcium	SW-846 6010B	1	112655708002	09/30/2011 18:51	John P Hook	1
01654	Iron	SW-846 6010B	1	112655708002	09/30/2011 18:51	John P Hook	1
01656	Lithium	SW-846 6010B	1	112655708002	09/30/2011 18:51	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112655708002	09/30/2011 18:51	John P Hook	1
06958	Manganese	SW-846 6010B	1	112655708002	09/30/2011 18:51	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112655708002	09/30/2011 18:51	John P Hook	1
01662	Potassium	SW-846 6010B	1	112655708002	09/30/2011 18:51	John P Hook	1
01667	Sodium	SW-846 6010B	1	112655708002	09/30/2011 18:51	John P Hook	1
07968	Strontium	SW-846 6010B	1	112655708002	09/30/2011 18:51	John P Hook	1
06969	Tin	SW-846 6010B	1	112655708002	09/30/2011 18:51	John P Hook	1
06970	Titanium	SW-846 6010B	1	112765708002	10/04/2011 07:31	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112655708002	09/30/2011 18:51	John P Hook	1

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Sample Description: **SL-047-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-047-SA7-SS-0.0-0.5

LLI Sample # SW 6414151
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:00

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4808 SDG#: DE248-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112651026001A	09/23/2011 09:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112651026001A	09/23/2011 09:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112651026001D	09/23/2011 09:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112651026001A	09/23/2011 09:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112651026001A	09/23/2011 09:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112651026001A	09/23/2011 09:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112651026001A	09/23/2011 09:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112651026001A	09/23/2011 09:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112651026001A	09/23/2011 09:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112651026001C	09/23/2011 09:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112651026001A	09/23/2011 09:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112651026001B	09/23/2011 09:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112651026001A	09/23/2011 09:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112651026001A	09/23/2011 09:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112651026001A	09/23/2011 09:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112651026001A	09/23/2011 09:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112655711001	09/23/2011 07:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112655708002	09/22/2011 21:29	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112765708002	10/03/2011 22:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112651026001	09/22/2011 21:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112655711001	09/23/2011 00:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11271621201A	09/29/2011 01:07	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11271621201A	09/29/2011 01:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11266621202A	10/04/2011 18:23	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243201A	10/05/2011 15:22	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11275102201A	10/03/2011 09:15	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11271621201A	09/28/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621202A	09/23/2011 06:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11275102201A	10/02/2011 22:35	James S Mathiot	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11272039401A	09/29/2011 10:30	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243201A	10/03/2011 10:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11284162401A	10/11/2011 18:27	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-049-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA7-SS-0.0-0.5

LLI Sample # SW 6414152
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:55

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4809 SDG#: DE248-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	169	U	169	339		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(a)pyrene	50-32-8	25	J	17	170		1
04688	Benzo(b)fluoranthene	205-99-2	38	J	17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	34	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Chrysene	218-01-9	26	J	17	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	34	J	17	340		1
04688	Fluoranthene	206-44-0	47	J	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	21	J	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-049-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA7-SS-0.0-0.5

LLI Sample # SW 6414152
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:55

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4809 SDG#: DE248-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenanthrene	85-01-8	21	J	17	170		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	41	J	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.4		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.4		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.4		5
10138	Benzo(a)anthracene	56-55-3	11		3.4	8.4		5
10138	Benzo(k)fluoranthene	207-08-9	10		3.4	8.4		5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.4		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.4		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.4		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.4		5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1

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Sample Description: **SL-049-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA7-SS-0.0-0.5

LLI Sample # SW 6414152
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:55

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4809 SDG#: DE248-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	2.0		0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.61		0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1

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SL-049-SA7-SS-0.0-0.5

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E4809 SDG#: DE248-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	8.7		0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.13	U	0.13	0.34		1
01363	p,p-DDT	50-29-3	0.36	U	0.36	0.36		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.14	U	0.14	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.14	U	0.14	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.50	U	0.50	0.50		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards.
The following analyte is accepted based on this allowance: heptachlor epoxide

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	2.0	J	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	1.4	J	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1
10225	PCB-1260	11096-82-5	3.7		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: **SL-049-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA7-SS-0.0-0.5

LLI Sample # SW 6414152
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:55

Submitted: 09/21/2011 09:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4809 SDG#: DE248-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	310	J	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.1	U	4.1	12		10
10199	EFH (C15-C20)	n.a.	4.1	U	4.1	12		10
10199	EFH (C21-C30)	n.a.	57		4.1	12		10
10199	EFH (C30 - C40)	n.a.	220		4.1	12		10
10199	EFH (C8-C11)	n.a.	4.1	U	4.1	12		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,600		6.03	19.9		1
07914	Boron	7440-42-8	0.359	U	0.359	4.98		1
01650	Calcium	7440-70-2	3,010		2.49	19.9		1
01654	Iron	7439-89-6	19,600		2.60	19.9		1
01656	Lithium	7439-93-2	23.6		0.62	2.0		1
01657	Magnesium	7439-95-4	4,390		0.438	9.96		1
06958	Manganese	7439-96-5	253		0.0359	0.498		1
10145	Phosphorus	7723-14-0	364		0.349	9.96		1
01662	Potassium	7440-09-7	3,220		11.3	49.8		1
01667	Sodium	7440-23-5	68.0	J	5.93	99.6		1
07968	Strontium	7440-24-6	13.6		0.0249	0.498		1
06969	Tin	7440-31-5	2.76	J	0.319	9.96		1
06970	Titanium	7440-32-6	1,120		0.0694	0.977		1
10146	Zirconium	7440-67-7	2.43	J	0.458	4.98		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.125	J	0.0730	0.197		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.70		0.0789	0.395		2
06126	Barium	7440-39-3	111		0.105	0.395		2

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Sample Description: **SL-049-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA7-SS-0.0-0.5

LLI Sample # SW 6414152
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:55

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4809 SDG#: DE248-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.600		0.0158	0.0987		2
06128	Cadmium	7440-43-9	0.209		0.0434	0.0987		2
06131	Chromium	7440-47-3	20.9		0.118	0.395		2
06132	Cobalt	7440-48-4	6.92		0.0197	0.0987		2
06133	Copper	7440-50-8	10.3		0.0789	0.395		2
06135	Lead	7439-92-1	9.89		0.0101	0.197		2
06138	Molybdenum	7439-98-7	0.514		0.0493	0.0987		2
06139	Nickel	7440-02-0	14.0		0.0987	0.395		2
06141	Selenium	7782-49-2	0.153	J	0.0572	0.395		2
06142	Silver	7440-22-4	0.0435	J	0.0140	0.0987		2
06145	Thallium	7440-28-0	0.311		0.0296	0.0987		2
06148	Vanadium	7440-62-2	39.1		0.0217	0.0987		2
06149	Zinc	7440-66-6	120		0.553	2.96		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0089	J	0.0068	0.0970		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7		0.83	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.4	J	0.83	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	2.0		0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.07		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.6		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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SSFL Area IV Collocated Soil Sampling
SL-049-SA7-SS-0.0-0.5

LLI Sample # SW 6414152
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E4809 SDG#: DE248-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11269SLB026	10/04/2011 00:30	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11269SLA026	10/02/2011 19:11	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLF026	10/04/2011 17:56	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11269SLB026	09/28/2011 14:00	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLF026	09/28/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11269SLA026	09/28/2011 19:00	Sally L Appleyard	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112690016A	10/04/2011 11:16	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670008A	09/28/2011 20:03	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670049A	09/30/2011 10:16	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670060A	10/03/2011 23:47	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670050A	09/29/2011 02:00	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112670060A	09/28/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670050A	09/28/2011 03:15	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670049A	09/28/2011 02:00	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670008A	09/26/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112690016A	09/29/2011 14:30	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112690024A	09/27/2011 03:46	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112720042A	09/29/2011 23:09	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112670044A	09/30/2011 04:36	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112680002A	10/02/2011 20:06	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112680002A	09/26/2011 11:00	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112670044A	09/27/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112690024A	09/26/2011 20:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112720042A	09/29/2011 16:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112655708002	09/30/2011 18:55	John P Hook	1
07914	Boron	SW-846 6010B	1	112655708002	09/30/2011 18:55	John P Hook	1
01650	Calcium	SW-846 6010B	1	112655708002	09/30/2011 18:55	John P Hook	1
01654	Iron	SW-846 6010B	1	112655708002	09/30/2011 18:55	John P Hook	1
01656	Lithium	SW-846 6010B	1	112655708002	09/30/2011 18:55	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112655708002	09/30/2011 18:55	John P Hook	1
06958	Manganese	SW-846 6010B	1	112655708002	09/30/2011 18:55	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112655708002	09/30/2011 18:55	John P Hook	1
01662	Potassium	SW-846 6010B	1	112655708002	09/30/2011 18:55	John P Hook	1
01667	Sodium	SW-846 6010B	1	112655708002	09/30/2011 18:55	John P Hook	1
07968	Strontium	SW-846 6010B	1	112655708002	09/30/2011 18:55	John P Hook	1
06969	Tin	SW-846 6010B	1	112655708002	09/30/2011 18:55	John P Hook	1
06970	Titanium	SW-846 6010B	1	112765708002	10/04/2011 07:35	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112655708002	09/30/2011 18:55	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-049-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA7-SS-0.0-0.5

LLI Sample # SW 6414152
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:55

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4809 SDG#: DE248-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112651026001A	09/23/2011 09:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112651026001A	09/23/2011 09:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112651026001D	09/23/2011 09:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112651026001A	09/23/2011 09:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112651026001A	09/23/2011 09:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112651026001A	09/23/2011 09:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112651026001A	09/23/2011 09:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112651026001A	09/23/2011 09:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112651026001A	09/23/2011 09:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112651026001C	09/23/2011 09:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112651026001A	09/23/2011 09:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112651026001B	09/23/2011 09:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112651026001A	09/23/2011 09:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112651026001A	09/23/2011 09:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112651026001A	09/23/2011 09:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112651026001A	09/23/2011 09:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112655711001	09/23/2011 07:07	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112655708002	09/22/2011 21:29	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112765708002	10/03/2011 22:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112651026001	09/22/2011 21:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112655711001	09/23/2011 00:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11271621201A	09/29/2011 01:22	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11271621201A	09/29/2011 01:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11266621202A	10/04/2011 18:46	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243201A	10/05/2011 15:37	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11275102201A	10/03/2011 09:19	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11271621201A	09/28/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621202A	09/23/2011 06:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11275102201A	10/02/2011 22:35	James S Mathiot	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11272039401A	09/29/2011 10:30	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243201A	10/03/2011 10:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11284162401A	10/11/2011 18:27	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-050-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414153
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4810 SDG#: DE248-10BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	169	U	169	339		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	850	U	850	2,500		5
04688	Benzidine	92-87-5	5,900	U	5,900	17,000		5
04688	Benzo(a)anthracene	56-55-3	280	J	85	850		5
04688	Benzo(a)pyrene	50-32-8	220	J	85	850		5
04688	Benzo(g,h,i)perylene	191-24-2	170	J	85	850		5
04688	Benzoic acid	65-85-0	850	U	850	2,500		5
04688	Benzyl alcohol	100-51-6	850	U	850	2,500		5
04688	4-Bromophenyl-phenylether	101-55-3	85	U	85	850		5
04688	Carbazole	86-74-8	90	J	85	850		5
04688	4-Chloro-3-methylphenol	59-50-7	170	U	170	850		5
04688	4-Chloroaniline	106-47-8	340	U	340	850		5
04688	bis(2-Chloroethoxy)methane	111-91-1	85	U	85	850		5
04688	bis(2-Chloroethyl)ether	111-44-4	85	U	85	850		5
04688	bis(2-Chloroisopropyl)ether	39638-32-9	85	U	85	850		5
04688	2-Chloronaphthalene	91-58-7	85	U	85	850		5
04688	2-Chlorophenol	95-57-8	85	U	85	850		5
04688	4-Chlorophenyl-phenylether	7005-72-3	170	U	170	850		5
04688	Chrysene	218-01-9	290	J	85	850		5
04688	Dibenzofuran	132-64-9	85	U	85	850		5
04688	1,2-Dichlorobenzene	95-50-1	85	U	85	850		5
04688	1,3-Dichlorobenzene	541-73-1	85	U	85	850		5
04688	1,4-Dichlorobenzene	106-46-7	85	U	85	850		5
04688	3,3'-Dichlorobenzidine	91-94-1	510	U	510	1,700		5
04688	2,4-Dichlorophenol	120-83-2	85	U	85	850		5
04688	2,4-Dimethylphenol	105-67-9	170	U	170	850		5
04688	3,5-Dimethylphenol	108-68-9	170	U	170	850		5
04688	4,6-Dinitro-2-methylphenol	534-52-1	850	U	850	2,500		5
04688	2,4-Dinitrophenol	51-28-5	1,700	U	1,700	5,100		5
04688	2,4-Dinitrotoluene	121-14-2	170	U	170	850		5
04688	2,6-Dinitrotoluene	606-20-2	85	U	85	850		5
04688	1,2-Diphenylhydrazine	122-66-7	85	U	85	850		5
04688	Fluoranthene	206-44-0	740	J	85	850		5
04688	Hexachlorobenzene	118-74-1	85	U	85	850		5
04688	Hexachlorobutadiene	87-68-3	340	U	340	850		5
04688	Hexachlorocyclopentadiene	77-47-4	850	U	850	2,500		5
04688	Hexachloroethane	67-72-1	85	U	85	850		5
04688	Indeno(1,2,3-cd)pyrene	193-39-5	150	J	85	850		5
04688	Isophorone	78-59-1	85	U	85	850		5
04688	2-Methylphenol	95-48-7	170	U	170	850		5
04688	4-Methylphenol	106-44-5	170	U	170	850		5
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	85	U	85	850		5
04688	3-Nitroaniline	99-09-2	170	U	170	850		5
04688	4-Nitroaniline	100-01-6	340	U	340	850		5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-050-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414153
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4810 SDG#: DE248-10BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Nitrobenzene	98-95-3	85	U	85	850		5
04688	2-Nitrophenol	88-75-5	85	U	85	850		5
04688	4-Nitrophenol	100-02-7	850	U	850	2,500		5
04688	N-Nitroso-di-n-propylamine	621-64-7	85	U	85	850		5
04688	N-Nitrosodiphenylamine	86-30-6	85	U	85	850		5
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	850	U	850	2,500		5
04688	Phenanthrene	85-01-8	520	J	85	850		5
04688	Phenol	108-95-2	85	U	85	850		5
04688	Pyrene	129-00-0	580	J	85	850		5
04688	Tetralin	119-64-2	850	U	850	850		5
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	85	U	85	850		5
04688	2,4,5-Trichlorophenol	95-95-4	170	U	170	850		5
04688	2,4,6-Trichlorophenol	88-06-2	170	U	170	850		5
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	17		3.4	8.4		5
10138	Acenaphthylene	208-96-8	2.4	J	1.7	8.4		5
10138	Anthracene	120-12-7	42		1.7	8.4		5
10138	Benzo(b)fluoranthene	205-99-2	340		3.4	8.4		5
10138	Benzo(k)fluoranthene	207-08-9	170		3.4	8.4		5
10138	Butylbenzylphthalate	85-68-7	30	U	30	91		5
10138	Di-n-butylphthalate	84-74-2	30	U	30	91		5
10138	Dibenz(a,h)anthracene	53-70-3	19		3.4	8.4		5
10138	Diethylphthalate	84-66-2	30	U	30	91		5
10138	Dimethylphthalate	131-11-3	30	U	30	91		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	30	U	30	91		5
10138	Fluorene	86-73-7	16		3.4	8.4		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.4		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.4		5
10138	Naphthalene	91-20-3	8.5		3.4	8.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4		5
10138	Di-n-octylphthalate	117-84-0	30	U	30	91		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	240	10000000	1

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Sample Description: **SL-050-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414153
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4810 SDG#: DE248-10BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,400	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	2.2		0.63	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	150	J	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.20		0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1

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Sample Description: **SL-050-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414153
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4810 SDG#: DE248-10BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.34	U	0.34	0.85		5
01363	Alpha BHC	319-84-6	0.17	U	0.17	0.85		5
01363	Beta BHC	319-85-7	0.31	U	0.31	0.85		5
01363	Gamma BHC - Lindane	58-89-9	0.17	U	0.17	0.85		5
01363	Chlordane	57-74-9	12	J	4.1	17		5
01363	p,p-DDD	72-54-8	1.1	U	1.1	1.7		5
01363	p,p-DDE	72-55-9	0.45	U	0.45	1.7		5
01363	p,p-DDT	50-29-3	1.4	U	1.4	1.7		5
01363	Delta BHC	319-86-8	0.18	U	0.18	0.85		5
01363	Dieldrin	60-57-1	0.34	U	0.34	1.7		5
01363	Endosulfan I	959-98-8	0.22	U	0.22	0.85		5
01363	Endosulfan II	33213-65-9	0.41	U	0.41	1.7		5
01363	Endosulfan Sulfate	1031-07-8	0.34	U	0.34	1.7		5
01363	Endrin	72-20-8	0.34	U	0.34	1.7		5
01363	Endrin Aldehyde	7421-93-4	0.34	U	0.34	1.7		5
01363	Endrin Ketone	53494-70-5	0.34	U	0.34	1.7		5
01363	Heptachlor	76-44-8	0.31	U	0.31	0.85		5
01363	Heptachlor Epoxide	1024-57-3	0.22	U	0.22	0.85		5
01363	Methoxychlor	72-43-5	1.7	U	1.7	8.5		5
01363	Mirex	2385-85-5	0.66	U	0.66	1.7		5
01363	Toxaphene	8001-35-2	11	U	11	34		5

The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards.
The following analyte is accepted based on this allowance: heptachlor epoxide

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	8.3		1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.76	J	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	4.5		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-050-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414153
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4810 SDG#: DE248-10BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	20	U	20	61		50
10199	EFH (C15-C20)	n.a.	35	J	20	61		50
10199	EFH (C21-C30)	n.a.	230		20	61		50
10199	EFH (C30 - C40)	n.a.	1,000		20	61		50
10199	EFH (C8-C11)	n.a.	20	U	20	61		50
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,300		6.11	20.2		1
07914	Boron	7440-42-8	1.40	J	0.363	5.05		1
01650	Calcium	7440-70-2	8,680		2.52	20.2		1
01654	Iron	7439-89-6	22,700		2.63	20.2		1
01656	Lithium	7439-93-2	25.4		0.63	2.0		1
01657	Magnesium	7439-95-4	5,040		0.444	10.1		1
06958	Manganese	7439-96-5	286		0.0363	0.505		1
10145	Phosphorus	7723-14-0	392		0.353	10.1		1
01662	Potassium	7440-09-7	3,130		11.4	50.5		1
01667	Sodium	7440-23-5	103		6.01	101		1
07968	Strontium	7440-24-6	23.7		0.0252	0.505		1
06969	Tin	7440-31-5	2.53	J	0.323	10.1		1
06970	Titanium	7440-32-6	1,200		0.0710	0.999		1
10146	Zirconium	7440-67-7	3.40	J	0.464	5.05		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.284		0.0747	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.41		0.0807	0.404		2
06126	Barium	7440-39-3	113		0.107	0.404		2
06127	Beryllium	7440-41-7	0.628		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.352		0.0444	0.101		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-050-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414153
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4810 SDG#: DE248-10BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	23.7		0.121	0.404		2
06132	Cobalt	7440-48-4	8.24		0.0202	0.101		2
06133	Copper	7440-50-8	13.1		0.0807	0.404		2
06135	Lead	7439-92-1	16.3		0.0103	0.202		2
06138	Molybdenum	7439-98-7	0.467		0.0505	0.101		2
06139	Nickel	7440-02-0	17.4		0.101	0.404		2
06141	Selenium	7782-49-2	0.127	J	0.0585	0.404		2
06142	Silver	7440-22-4	0.0618	J	0.0143	0.101		2
06145	Thallium	7440-28-0	0.347		0.0303	0.101		2
06148	Vanadium	7440-62-2	45.8		0.0222	0.101		2
06149	Zinc	7440-66-6	132		0.565	3.03		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0115	J	0.0070	0.0997		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.2		0.83	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.83	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.37	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.20		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.9		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-050-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414153
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4810 SDG#: DE248-10BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11269SLB026	10/04/2011 00:49	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11269SLA026	10/02/2011 14:00	Linda M Hartenstine	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLF026	10/02/2011 02:48	Gregory J Drahovsky	5
11630	NDMA Soil Microwave	SW-846 3546	1	11269SLB026	09/28/2011 14:00	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLF026	09/28/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11269SLA026	09/28/2011 19:00	Sally L Appleyard	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112690016A	10/04/2011 11:58	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670008A	09/28/2011 20:12	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670049A	09/30/2011 04:19	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670060A	10/04/2011 03:40	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670050A	09/29/2011 02:19	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112670060A	09/28/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670050A	09/28/2011 03:15	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670049A	09/28/2011 02:00	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670008A	09/26/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112690016A	09/29/2011 14:30	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112690024A	09/27/2011 04:00	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112720042A	09/29/2011 23:22	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112670044A	09/30/2011 07:54	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112680002A	09/29/2011 14:06	Heather E Williams	50
11238	EFH Extraction - Soils	SW-846 3550B	1	112680002A	09/26/2011 11:00	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112670044A	09/27/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112690024A	09/26/2011 20:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112720042A	09/29/2011 16:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112655708002	09/30/2011 17:53	John P Hook	1
07914	Boron	SW-846 6010B	1	112655708002	09/30/2011 17:53	John P Hook	1
01650	Calcium	SW-846 6010B	1	112655708002	09/30/2011 17:53	John P Hook	1
01654	Iron	SW-846 6010B	1	112655708002	09/30/2011 17:53	John P Hook	1
01656	Lithium	SW-846 6010B	1	112655708002	09/30/2011 17:53	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112655708002	09/30/2011 17:53	John P Hook	1
06958	Manganese	SW-846 6010B	1	112655708002	09/30/2011 17:53	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112655708002	09/30/2011 17:53	John P Hook	1
01662	Potassium	SW-846 6010B	1	112655708002	09/30/2011 17:53	John P Hook	1
01667	Sodium	SW-846 6010B	1	112655708002	09/30/2011 17:53	John P Hook	1
07968	Strontium	SW-846 6010B	1	112655708002	09/30/2011 17:53	John P Hook	1
06969	Tin	SW-846 6010B	1	112655708002	09/30/2011 17:53	John P Hook	1
06970	Titanium	SW-846 6010B	1	112765708002	10/04/2011 06:30	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112655708002	09/30/2011 17:53	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-050-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414153
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4810 SDG#: DE248-10BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112651026001A	09/23/2011 08:20	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112651026001A	09/23/2011 08:20	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112651026001D	09/23/2011 08:20	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112651026001A	09/23/2011 08:20	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112651026001A	09/23/2011 08:20	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112651026001A	09/23/2011 08:20	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112651026001A	09/23/2011 08:20	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112651026001A	09/23/2011 08:20	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112651026001A	09/23/2011 08:20	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112651026001C	09/23/2011 08:20	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112651026001A	09/23/2011 08:20	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112651026001B	09/23/2011 08:20	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112651026001A	09/23/2011 08:20	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112651026001A	09/23/2011 08:20	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112651026001A	09/23/2011 08:20	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112651026001A	09/23/2011 08:20	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112655711001	09/23/2011 07:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112655708002	09/22/2011 21:29	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112765708002	10/03/2011 22:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112651026001	09/22/2011 21:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112655711001	09/23/2011 00:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11271621201A	09/28/2011 22:05	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11271621201A	09/28/2011 22:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11266621202A	10/04/2011 14:10	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243201A	10/05/2011 15:51	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11275102201A	10/03/2011 09:20	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11271621201A	09/28/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621202A	09/23/2011 06:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11275102201A	10/02/2011 22:35	James S Mathiot	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11272039401B	09/29/2011 10:30	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243201A	10/03/2011 10:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11284162401A	10/11/2011 18:27	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-050-SA7-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414154
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4810 SDG#: DE248-10MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	844		170	340		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	2,000		85	850		5
04688	Acenaphthylene	208-96-8	1,600		85	850		5
04688	Aniline	62-53-3	850	U	850	2,500		5
04688	Anthracene	120-12-7	2,600		85	850		5
04688	Benzidine	92-87-5	5,900	U	5,900	17,000		5
04688	Benzo(a)anthracene	56-55-3	3,600		85	850		5
04688	Benzo(a)pyrene	50-32-8	3,200		85	850		5
04688	Benzo(b)fluoranthene	205-99-2	3,800		85	850		5
04688	Benzo(g,h,i)perylene	191-24-2	2,800		85	850		5
04688	Benzo(k)fluoranthene	207-08-9	2,500		85	850		5
04688	Benzoic acid	65-85-0	850	U	850	2,500		5
04688	Benzyl alcohol	100-51-6	1,400	J	850	2,500		5
04688	4-Bromophenyl-phenylether	101-55-3	1,700		85	850		5
04688	Butylbenzylphthalate	85-68-7	1,600		85	850		5
04688	Di-n-butylphthalate	84-74-2	1,500		85	850		5
04688	Carbazole	86-74-8	2,300		85	850		5
04688	4-Chloro-3-methylphenol	59-50-7	1,500		170	850		5
04688	4-Chloroaniline	106-47-8	950		340	850		5
04688	bis(2-Chloroethoxy)methane	111-91-1	1,400		85	850		5
04688	bis(2-Chloroethyl)ether	111-44-4	1,400		85	850		5
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,400		85	850		5
04688	2-Chloronaphthalene	91-58-7	1,400		85	850		5
04688	2-Chlorophenol	95-57-8	1,500		85	850		5
04688	4-Chlorophenyl-phenylether	7005-72-3	1,400		170	850		5
04688	Chrysene	218-01-9	3,400		85	850		5
04688	Dibenz(a,h)anthracene	53-70-3	2,100		85	850		5
04688	Dibenzofuran	132-64-9	1,800		85	850		5
04688	1,2-Dichlorobenzene	95-50-1	1,400		85	850		5
04688	1,3-Dichlorobenzene	541-73-1	1,500		85	850		5
04688	1,4-Dichlorobenzene	106-46-7	1,400		85	850		5
04688	3,3'-Dichlorobenzidine	91-94-1	1,000	J	510	1,700		5
04688	2,4-Dichlorophenol	120-83-2	1,600		85	850		5
04688	Diethylphthalate	84-66-2	1,500		85	850		5
04688	2,4-Dimethylphenol	105-67-9	1,600		170	850		5
04688	3,5-Dimethylphenol	108-68-9	1,500		170	850		5
04688	Dimethylphthalate	131-11-3	1,500		85	850		5
04688	4,6-Dinitro-2-methylphenol	534-52-1	850	U	850	2,500		5
04688	2,4-Dinitrophenol	51-28-5	1,700	U	1,700	5,100		5
04688	2,4-Dinitrotoluene	121-14-2	1,300		170	850		5
04688	2,6-Dinitrotoluene	606-20-2	1,500		85	850		5
04688	1,2-Diphenylhydrazine	122-66-7	1,600		85	850		5
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,600	J	85	1,700		5
04688	Fluoranthene	206-44-0	8,600		85	850		5
04688	Fluorene	86-73-7	2,000		85	850		5
04688	Hexachlorobenzene	118-74-1	1,600		85	850		5
04688	Hexachlorobutadiene	87-68-3	1,400		340	850		5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-050-SA7-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414154
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4810 SDG#: DE248-10MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorocyclopentadiene	77-47-4	1,200	J	850	2,500		5
04688	Hexachloroethane	67-72-1	1,500		85	850		5
04688	Indeno(1,2,3-cd)pyrene	193-39-5	2,800		85	850		5
04688	Isophorone	78-59-1	1,500		85	850		5
04688	1-Methylnaphthalene	90-12-0	1,500		85	850		5
04688	2-Methylnaphthalene	91-57-6	1,500		85	850		5
04688	2-Methylphenol	95-48-7	1,500		170	850		5
04688	4-Methylphenol	106-44-5	1,400		170	850		5
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,600		85	850		5
04688	2-Nitroaniline	88-74-4	1,500		85	850		5
04688	3-Nitroaniline	99-09-2	1,400		170	850		5
04688	4-Nitroaniline	100-01-6	1,100		340	850		5
04688	Nitrobenzene	98-95-3	1,500		85	850		5
04688	2-Nitrophenol	88-75-5	1,600		85	850		5
04688	4-Nitrophenol	100-02-7	1,200	J	850	2,500		5
04688	N-Nitrosodimethylamine	62-75-9	1,200		170	850		5
04688	N-Nitroso-di-n-propylamine	621-64-7	1,400		85	850		5
04688	N-Nitrosodiphenylamine	86-30-6	1,700		85	850		5
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	2,000		85	850		5
04688	Pentachlorophenol	87-86-5	860	J	850	2,500		5
04688	Phenanthrene	85-01-8	7,800		85	850		5
04688	Phenol	108-95-2	1,500		85	850		5
04688	Pyrene	129-00-0	6,800		85	850		5
04688	Tetralin	119-64-2	850	U	850	850		5
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	1,500		85	850		5
04688	2,4,5-Trichlorophenol	95-95-4	1,500		170	850		5
04688	2,4,6-Trichlorophenol	88-06-2	1,600		170	850		5
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	52		3.4	8.4		5
10138	Acenaphthylene	208-96-8	36		1.7	8.4		5
10138	Anthracene	120-12-7	67		1.7	8.4		5
10138	Benzo(a)anthracene	56-55-3	200		3.4	8.4		5
10138	Benzo(a)pyrene	50-32-8	210		3.4	8.4		5
10138	Benzo(b)fluoranthene	205-99-2	460		3.4	8.4		5
10138	Benzo(g,h,i)perylene	191-24-2	80		3.4	8.4		5
10138	Benzo(k)fluoranthene	207-08-9	150		3.4	8.4		5
10138	Butylbenzylphthalate	85-68-7	48	J	30	91		5
10138	Di-n-butylphthalate	84-74-2	53	J	30	91		5
10138	Chrysene	218-01-9	230		1.7	8.4		5

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Sample Description: SL-050-SA7-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414154
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4810 SDG#: DE248-10MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	32		3.4	8.4		5
10138	Diethylphthalate	84-66-2	41	J	30	91		5
10138	Dimethylphthalate	131-11-3	39	J	30	91		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	560		30	91		5
10138	Fluoranthene	206-44-0	550		3.4	8.4		5
10138	Fluorene	86-73-7	50		3.4	8.4		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	77		3.4	8.4		5
10138	1-Methylnaphthalene	90-12-0	36		3.4	8.4		5
10138	2-Methylnaphthalene	91-57-6	36		3.4	8.4		5
10138	Naphthalene	91-20-3	40		3.4	8.4		5
10138	N-Nitrosodimethylamine	62-75-9	33		3.4	8.4		5
10138	Di-n-octylphthalate	117-84-0	74	J	30	91		5
10138	Phenanthrene	85-01-8	300		3.4	8.4		5
10138	Pyrene	129-00-0	420		3.4	8.4		5

Reporting limits were raised due to interference from the sample matrix.

The GC/MS semivolatile internal standard peak areas were outside of QC limits. The matrix spike duplicate sample was analyzed and internal standard peak areas were again outside of QC limits, indicating a matrix effect.

Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,200		61	120		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,100		41	120		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	240		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	240		1
10132	1,3-Dinitrobenzene	99-65-0	2,200		41	120		1
10132	2,4-Dinitrotoluene	121-14-2	2,000		41	120		1
10132	2,6-Dinitrotoluene	606-20-2	2,100		41	120		1
10132	HMX	2691-41-0	1,900		100	310		1
10132	Nitrobenzene	98-95-3	2,000		41	120		1
10132	Nitroglycerin	55-63-0	48,000		820	2,400		1
10132	2-Nitrotoluene	88-72-2	2,100		82	120		1
10132	3-Nitrotoluene	99-08-1	2,200		100	120		1
10132	4-Nitrotoluene	99-99-0	2,000		82	120		1
10132	PETN	78-11-5	52,000		820	2,400		1
10132	RDX	121-82-4	1,900		51	120		1
10132	Tetryl	479-45-8	2,000		62	120		1
10132	1,3,5-Trinitrobenzene	99-35-4	2,000		41	120		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,200		41	120		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	6.9		1.2	3.6		1
10401	Dalapon	75-99-0	11		4.5	9.1		1
10401	2,4-DB	94-82-6	2.3		0.63	1.7		1
10401	Dicamba	1918-00-9	0.69	J	0.41	1.2		1
10401	Dinoseb	88-85-7	2.9		0.82	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	6.1		0.82	1.7		1
10401	MCPA	94-74-6	560		77	250		1
10401	MCPP (Mecoprop)	93-65-2	420		76	250		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-050-SA7-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414154
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4810 SDG#: DE248-10MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4,5-T	93-76-5	0.73		0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.43		0.076	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	4,900		610	1,500		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.34	U	0.34	0.85		5
01363	Alpha BHC	319-84-6	0.30	J	0.17	0.85		5
01363	Beta BHC	319-85-7	0.31	U	0.31	0.85		5
01363	Gamma BHC - Lindane	58-89-9	0.17	U	0.17	0.85		5
01363	Chlordane	57-74-9	5.9	J	4.1	17		5
01363	p,p-DDD	72-54-8	1.8		0.34	1.7		5
01363	p,p-DDE	72-55-9	0.81	J	0.34	1.7		5
01363	p,p-DDT	50-29-3	0.97	J	0.34	1.7		5
01363	Delta BHC	319-86-8	0.18	U	0.18	0.85		5
01363	Dieldrin	60-57-1	0.34	U	0.34	1.7		5
01363	Endosulfan I	959-98-8	0.22	U	0.22	0.85		5
01363	Endosulfan II	33213-65-9	1.2	J	0.34	1.7		5
01363	Endosulfan Sulfate	1031-07-8	0.34	U	0.34	1.7		5
01363	Endrin	72-20-8	0.34	U	0.34	1.7		5
01363	Endrin Aldehyde	7421-93-4	1.8		0.34	1.7		5
01363	Endrin Ketone	53494-70-5	0.34	U	0.34	1.7		5
01363	Heptachlor	76-44-8	0.31	U	0.31	0.85		5
01363	Heptachlor Epoxide	1024-57-3	0.34	J	0.17	0.85		5
01363	Methoxychlor	72-43-5	6.6	J	1.7	8.5		5
01363	Mirex	2385-85-5	4.5		0.34	1.7		5
01363	Toxaphene	8001-35-2	11	U	11	34		5

The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards.
The following analyte is accepted based on this allowance: heptachlor epoxide

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	8.9		1.0	3.4		1
10225	PCB-1016	12674-11-2	9.7		0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-050-SA7-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414154
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4810 SDG#: DE248-10MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	17		0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	12		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	1,900		100	510		1
10501	Isopropanol	67-63-0	1,900		100	510		1
10501	Methanol	67-56-1	2,100		100	510		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	37		5.1	10		1
08283	Propylene glycol	57-55-6	63		5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	7.7		1.5	3.6		1
10318	o-Terphenyl	84-15-1	8.1		1.5	3.6		1
10318	p-Terphenyl	92-94-4	7.8		1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	20	U	20	61		50
10199	EFH (C15-C20)	n.a.	42	J	20	61		50
10199	EFH (C21-C30)	n.a.	290		20	61		50
10199	EFH (C30 - C40)	n.a.	1,100		20	61		50
10199	EFH (C8-C11)	n.a.	20	U	20	61		50
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	19,700		6.05	20.0		1
07914	Boron	7440-42-8	198		0.360	5.00		1
01650	Calcium	7440-70-2	9,850		2.50	20.0		1
01654	Iron	7439-89-6	24,800		2.61	20.0		1
01656	Lithium	7439-93-2	126		0.62	2.0		1
01657	Magnesium	7439-95-4	5,970		0.440	9.99		1
06958	Manganese	7439-96-5	338		0.0360	0.500		1
10145	Phosphorus	7723-14-0	510		0.350	9.99		1
01662	Potassium	7440-09-7	4,570		11.3	50.0		1
01667	Sodium	7440-23-5	1,070		5.95	99.9		1
07968	Strontium	7440-24-6	122		0.0250	0.500		1
06969	Tin	7440-31-5	347		0.320	9.99		1
06970	Titanium	7440-32-6	1,510		0.0717	1.01		1
10146	Zirconium	7440-67-7	99.5		0.460	5.00		1

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-050-SA7-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414154
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4810 SDG#: DE248-10MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.01	0.0754	0.204		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.93	0.0815	0.408		2
06126	Barium	7440-39-3	150	0.108	0.408		2
06127	Beryllium	7440-41-7	1.79	0.0163	0.102		2
06128	Cadmium	7440-43-9	2.05	0.0449	0.102		2
06131	Chromium	7440-47-3	40.4	0.122	0.408		2
06132	Cobalt	7440-48-4	83.9	0.0204	0.102		2
06133	Copper	7440-50-8	31.2	0.0815	0.408		2
06135	Lead	7439-92-1	25.5	0.0104	0.204		2
06138	Molybdenum	7439-98-7	16.4	0.0510	0.102		2
06139	Nickel	7440-02-0	36.7	0.102	0.408		2
06141	Selenium	7782-49-2	2.98	0.0591	0.408		2
06142	Silver	7440-22-4	15.8	0.0145	0.102		2
06145	Thallium	7440-28-0	0.963	0.0306	0.102		2
06148	Vanadium	7440-62-2	67.1	0.0224	0.102		2
06149	Zinc	7440-66-6	181	0.571	3.06		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.173	0.0070	0.0995		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	11.3	0.80	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	11.1	0.80	1.5		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	556	9.2	30.6		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	33.6	1.0	5.1		5
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	5.2	0.19	0.54		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	1.9	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-050-SA7-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414154
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4810 SDG#: DE248-10MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11269SLB026	10/04/2011 01:09	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11269SLA026	10/02/2011 14:25	Linda M Hartenstine	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLF026	10/02/2011 03:23	Gregory J Drahovsky	5
11630	NDMA Soil Microwave	SW-846 3546	1	11269SLB026	09/28/2011 14:00	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLF026	09/28/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11269SLA026	09/28/2011 19:00	Sally L Appleyard	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112690016A	10/04/2011 12:41	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670008A	09/28/2011 20:22	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670049A	09/30/2011 04:46	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670060A	10/04/2011 03:54	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670050A	09/29/2011 02:38	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112670060A	09/28/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670050A	09/28/2011 03:15	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670049A	09/28/2011 02:00	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670008A	09/26/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112690016A	09/29/2011 14:30	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112690024A	09/27/2011 05:44	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112720042A	09/29/2011 23:35	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112670044A	09/30/2011 08:38	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112680002A	09/29/2011 14:30	Heather E Williams	50
11238	EFH Extraction - Soils	SW-846 3550B	1	112680002A	09/26/2011 11:00	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112670044A	09/27/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112690024A	09/26/2011 20:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112720042A	09/29/2011 16:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112655708002	09/30/2011 18:05	John P Hook	1
07914	Boron	SW-846 6010B	1	112655708002	09/30/2011 18:05	John P Hook	1
01650	Calcium	SW-846 6010B	1	112655708002	09/30/2011 18:05	John P Hook	1
01654	Iron	SW-846 6010B	1	112655708002	09/30/2011 18:05	John P Hook	1
01656	Lithium	SW-846 6010B	1	112655708002	09/30/2011 18:05	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112655708002	09/30/2011 18:05	John P Hook	1
06958	Manganese	SW-846 6010B	1	112655708002	09/30/2011 18:05	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112655708002	09/30/2011 18:05	John P Hook	1
01662	Potassium	SW-846 6010B	1	112655708002	09/30/2011 18:05	John P Hook	1
01667	Sodium	SW-846 6010B	1	112655708002	09/30/2011 18:05	John P Hook	1
07968	Strontium	SW-846 6010B	1	112655708002	09/30/2011 18:05	John P Hook	1
06969	Tin	SW-846 6010B	1	112655708002	09/30/2011 18:05	John P Hook	1
06970	Titanium	SW-846 6010B	1	112765708002	10/04/2011 06:42	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112655708002	09/30/2011 18:05	John P Hook	1

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Sample Description: **SL-050-SA7-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414154
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4810 SDG#: DE248-10MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112651026001A	09/23/2011 08:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112651026001A	09/23/2011 08:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112651026001D	09/23/2011 08:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112651026001A	09/23/2011 08:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112651026001A	09/23/2011 08:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112651026001A	09/23/2011 08:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112651026001A	09/23/2011 08:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112651026001A	09/23/2011 08:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112651026001A	09/23/2011 08:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112651026001C	09/23/2011 08:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112651026001A	09/23/2011 08:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112651026001B	09/23/2011 08:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112651026001A	09/23/2011 08:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112651026001A	09/23/2011 08:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112651026001A	09/23/2011 08:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112651026001A	09/23/2011 08:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112655711001	09/23/2011 07:12	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112655708002	09/22/2011 21:29	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112765708002	10/03/2011 22:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112651026001	09/22/2011 21:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112655711001	09/23/2011 00:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11271621201A	09/28/2011 22:35	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11271621201A	09/28/2011 22:35	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11266621202A	10/04/2011 14:56	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243201A	10/05/2011 16:38	Elyse P Brunstetter	5
05895	16a Cyanide by 9012B	SW-846 9012B	1	11275102201A	10/03/2011 09:21	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11271621201A	09/28/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621202A	09/23/2011 06:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11275102201A	10/02/2011 22:35	James S Mathiot	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243201A	10/03/2011 10:40	Michelle L Lalli	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11284162401A	10/11/2011 18:27	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-050-SA7-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414155
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4810 SDG#: DE248-10MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	926		170	340		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,400		85	850		5
04688	Acenaphthylene	208-96-8	1,500		85	850		5
04688	Aniline	62-53-3	850	J	850	2,500		5
04688	Anthracene	120-12-7	1,500		85	850		5
04688	Benzidine	92-87-5	5,900	U	5,900	17,000		5
04688	Benzo(a)anthracene	56-55-3	1,500		85	850		5
04688	Benzo(a)pyrene	50-32-8	1,500		85	850		5
04688	Benzo(b)fluoranthene	205-99-2	1,700		85	850		5
04688	Benzo(g,h,i)perylene	191-24-2	1,600		85	850		5
04688	Benzo(k)fluoranthene	207-08-9	1,300		85	850		5
04688	Benzoic acid	65-85-0	850	U	850	2,500		5
04688	Benzyl alcohol	100-51-6	1,400	J	850	2,500		5
04688	4-Bromophenyl-phenylether	101-55-3	1,400		85	850		5
04688	Butylbenzylphthalate	85-68-7	1,500		85	850		5
04688	Di-n-butylphthalate	84-74-2	1,400		85	850		5
04688	Carbazole	86-74-8	1,400		85	850		5
04688	4-Chloro-3-methylphenol	59-50-7	1,300		170	850		5
04688	4-Chloroaniline	106-47-8	1,100		340	850		5
04688	bis(2-Chloroethoxy)methane	111-91-1	1,300		85	850		5
04688	bis(2-Chloroethyl)ether	111-44-4	1,400		85	850		5
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,400		85	850		5
04688	2-Chloronaphthalene	91-58-7	1,200		85	850		5
04688	2-Chlorophenol	95-57-8	1,500		85	850		5
04688	4-Chlorophenyl-phenylether	7005-72-3	1,300		170	850		5
04688	Chrysene	218-01-9	1,500		85	850		5
04688	Dibenz(a,h)anthracene	53-70-3	1,600		85	850		5
04688	Dibenzofuran	132-64-9	1,400		85	850		5
04688	1,2-Dichlorobenzene	95-50-1	1,300		85	850		5
04688	1,3-Dichlorobenzene	541-73-1	1,300		85	850		5
04688	1,4-Dichlorobenzene	106-46-7	1,300		85	850		5
04688	3,3'-Dichlorobenzidine	91-94-1	1,200	J	510	1,700		5
04688	2,4-Dichlorophenol	120-83-2	1,400		85	850		5
04688	Diethylphthalate	84-66-2	1,400		85	850		5
04688	2,4-Dimethylphenol	105-67-9	1,400		170	850		5
04688	3,5-Dimethylphenol	108-68-9	1,300		170	850		5
04688	Dimethylphthalate	131-11-3	1,500		85	850		5
04688	4,6-Dinitro-2-methylphenol	534-52-1	850	U	850	2,500		5
04688	2,4-Dinitrophenol	51-28-5	1,700	U	1,700	5,100		5
04688	2,4-Dinitrotoluene	121-14-2	1,300		170	850		5
04688	2,6-Dinitrotoluene	606-20-2	1,400		85	850		5
04688	1,2-Diphenylhydrazine	122-66-7	1,400		85	850		5
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,500	J	85	1,700		5
04688	Fluoranthene	206-44-0	2,000		85	850		5
04688	Fluorene	86-73-7	1,400		85	850		5
04688	Hexachlorobenzene	118-74-1	1,200		85	850		5
04688	Hexachlorobutadiene	87-68-3	1,200		340	850		5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-050-SA7-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414155
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4810 SDG#: DE248-10MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorocyclopentadiene	77-47-4	970	J	850	2,500		5
04688	Hexachloroethane	67-72-1	1,300		85	850		5
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600		85	850		5
04688	Isophorone	78-59-1	1,400		85	850		5
04688	1-Methylnaphthalene	90-12-0	1,300		85	850		5
04688	2-Methylnaphthalene	91-57-6	1,400		85	850		5
04688	2-Methylphenol	95-48-7	1,400		170	850		5
04688	4-Methylphenol	106-44-5	1,400		170	850		5
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,400		85	850		5
04688	2-Nitroaniline	88-74-4	1,500		85	850		5
04688	3-Nitroaniline	99-09-2	1,300		170	850		5
04688	4-Nitroaniline	100-01-6	1,200		340	850		5
04688	Nitrobenzene	98-95-3	1,400		85	850		5
04688	2-Nitrophenol	88-75-5	1,400		85	850		5
04688	4-Nitrophenol	100-02-7	1,200	J	850	2,500		5
04688	N-Nitrosodimethylamine	62-75-9	1,200		170	850		5
04688	N-Nitroso-di-n-propylamine	621-64-7	1,200		85	850		5
04688	N-Nitrosodiphenylamine	86-30-6	1,500		85	850		5
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	1,900		85	850		5
04688	Pentachlorophenol	87-86-5	850	U	850	2,500		5
04688	Phenanthrene	85-01-8	1,800		85	850		5
04688	Phenol	108-95-2	1,300		85	850		5
04688	Pyrene	129-00-0	1,700		85	850		5
04688	Tetralin	119-64-2	850	U	850	850		5
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	1,400		85	850		5
04688	2,4,5-Trichlorophenol	95-95-4	1,300		170	850		5
04688	2,4,6-Trichlorophenol	88-06-2	1,400		170	850		5
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	90		3.4	8.4		5
10138	Acenaphthylene	208-96-8	31		1.7	8.4		5
10138	Anthracene	120-12-7	180		1.7	8.4		5
10138	Benzo(a)anthracene	56-55-3	440		3.4	8.4		5
10138	Benzo(a)pyrene	50-32-8	450		3.4	8.4		5
10138	Benzo(b)fluoranthene	205-99-2	880		3.4	8.4		5
10138	Benzo(g,h,i)perylene	191-24-2	130		3.4	8.4		5
10138	Benzo(k)fluoranthene	207-08-9	300		3.4	8.4		5
10138	Butylbenzylphthalate	85-68-7	36	J	30	91		5
10138	Di-n-butylphthalate	84-74-2	39	J	30	91		5
10138	Chrysene	218-01-9	430		1.7	8.4		5

*=This limit was used in the evaluation of the final result
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Sample Description: SL-050-SA7-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414155
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4810 SDG#: DE248-10MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	47		3.4	8.4		5
10138	Diethylphthalate	84-66-2	31	J	30	91		5
10138	Dimethylphthalate	131-11-3	30	U	30	91		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	61	J	30	91		5
10138	Fluoranthene	206-44-0	1,200		3.4	8.4		5
10138	Fluorene	86-73-7	88		3.4	8.4		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	130		3.4	8.4		5
10138	1-Methylnaphthalene	90-12-0	33		3.4	8.4		5
10138	2-Methylnaphthalene	91-57-6	32		3.4	8.4		5
10138	Naphthalene	91-20-3	41		3.4	8.4		5
10138	N-Nitrosodimethylamine	62-75-9	25		3.4	8.4		5
10138	Di-n-octylphthalate	117-84-0	72	J	30	91		5
10138	Phenanthrene	85-01-8	760		3.4	8.4		5
10138	Pyrene	129-00-0	1,000		3.4	8.4		5

Reporting limits were raised due to interference from the sample matrix.

The GC/MS semivolatile internal standard peak areas were outside of QC limits. The matrix spike sample was analyzed and internal standard peak areas were again outside of QC limits, indicating a matrix effect.

Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,200		61	120		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,200		41	120		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	240		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	240		1
10132	1,3-Dinitrobenzene	99-65-0	2,300		41	120		1
10132	2,4-Dinitrotoluene	121-14-2	2,100		41	120		1
10132	2,6-Dinitrotoluene	606-20-2	2,200		41	120		1
10132	HMX	2691-41-0	1,900		100	310		1
10132	Nitrobenzene	98-95-3	2,200		41	120		1
10132	Nitroglycerin	55-63-0	49,000		820	2,400		1
10132	2-Nitrotoluene	88-72-2	2,100		82	120		1
10132	3-Nitrotoluene	99-08-1	2,200		100	120		1
10132	4-Nitrotoluene	99-99-0	2,100		82	120		1
10132	PETN	78-11-5	53,000		820	2,400		1
10132	RDX	121-82-4	1,900		51	120		1
10132	Tetryl	479-45-8	1,600		62	120		1
10132	1,3,5-Trinitrobenzene	99-35-4	2,000		41	120		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,200		41	120		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	5.4		1.2	3.7		1
10401	Dalapon	75-99-0	9.7		4.5	9.2		1
10401	2,4-DB	94-82-6	5.6		0.63	1.7		1
10401	Dicamba	1918-00-9	0.58	J	0.41	1.2		1
10401	Dinoseb	88-85-7	3.0		0.82	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	6.3		0.82	1.7		1
10401	MCPA	94-74-6	420		77	250		1
10401	MCPP (Mecoprop)	93-65-2	470		76	250		1

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Sample Description: **SL-050-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414155
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4810 SDG#: DE248-10MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4,5-T	93-76-5	0.47		0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.46		0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	5,000		610	1,500		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.34	U	0.34	0.85		5
01363	Alpha BHC	319-84-6	0.17	U	0.17	0.85		5
01363	Beta BHC	319-85-7	0.31	U	0.31	0.85		5
01363	Gamma BHC - Lindane	58-89-9	0.17	U	0.17	0.85		5
01363	Chlordane	57-74-9	6.7	J	4.1	17		5
01363	p,p-DDD	72-54-8	1.8		0.34	1.7		5
01363	p,p-DDE	72-55-9	0.92	J	0.34	1.7		5
01363	p,p-DDT	50-29-3	0.51	J	0.34	1.7		5
01363	Delta BHC	319-86-8	0.23	J	0.18	0.85		5
01363	Dieldrin	60-57-1	0.34	U	0.34	1.7		5
01363	Endosulfan I	959-98-8	0.22	U	0.22	0.85		5
01363	Endosulfan II	33213-65-9	0.34	U	0.34	1.7		5
01363	Endosulfan Sulfate	1031-07-8	0.34	U	0.34	1.7		5
01363	Endrin	72-20-8	0.42	J	0.34	1.7		5
01363	Endrin Aldehyde	7421-93-4	1.4	J	0.34	1.7		5
01363	Endrin Ketone	53494-70-5	0.34	U	0.34	1.7		5
01363	Heptachlor	76-44-8	0.31	U	0.31	0.85		5
01363	Heptachlor Epoxide	1024-57-3	0.25	J	0.17	0.85		5
01363	Methoxychlor	72-43-5	1.7	U	1.7	8.5		5
01363	Mirex	2385-85-5	11		0.34	1.7		5
01363	Toxaphene	8001-35-2	11	U	11	34		5
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: heptachlor epoxide							
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	9.2		1.0	3.4		1
10225	PCB-1016	12674-11-2	9.5		0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-050-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414155
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4810 SDG#: DE248-10MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	16		0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	12		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,000		100	510		1
10501	Isopropanol	67-63-0	2,000		100	510		1
10501	Methanol	67-56-1	2,100		100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	37		5.1	10		1
08283	Propylene glycol	57-55-6	63		5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1

The sample was not spiked during the original extraction. A second extraction was performed, however, the holding time had expired. The original results are reported for the MSD as the sample and in the QC summary. The results from the second extraction are as follows:

o-terphenyl = 8.6 mg/kg
m-terphenyl = 8.4 mg/kg
p-terphenyl = 9.1 mg/kg

GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	20	U	20	61		50
10199	EFH (C15-C20)	n.a.	41	J	20	61		50
10199	EFH (C21-C30)	n.a.	290		20	61		50
10199	EFH (C30 - C40)	n.a.	1,300		20	61		50
10199	EFH (C8-C11)	n.a.	20	U	20	61		50
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,600		6.17	20.4		1
07914	Boron	7440-42-8	207		0.367	5.10		1
01650	Calcium	7440-70-2	8,140		2.55	20.4		1
01654	Iron	7439-89-6	23,400		2.66	20.4		1
01656	Lithium	7439-93-2	129		0.63	2.0		1
01657	Magnesium	7439-95-4	5,660		0.449	10.2		1

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Sample Description: **SL-050-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414155
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4810 SDG#: DE248-10MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	348	0.0367	0.510		1
10145	Phosphorus	7723-14-0	512	0.357	10.2		1
01662	Potassium	7440-09-7	4,530	11.5	51.0		1
01667	Sodium	7440-23-5	1,110	6.07	102		1
07968	Strontium	7440-24-6	126	0.0255	0.510		1
06969	Tin	7440-31-5	363	0.326	10.2		1
06970	Titanium	7440-32-6	1,460	0.0717	1.01		1
10146	Zirconium	7440-67-7	104	0.469	5.10		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.793	0.0747	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.69	0.0807	0.404		2
06126	Barium	7440-39-3	122	0.107	0.404		2
06127	Beryllium	7440-41-7	1.56	0.0161	0.101		2
06128	Cadmium	7440-43-9	1.65	0.0444	0.101		2
06131	Chromium	7440-47-3	35.5	0.121	0.404		2
06132	Cobalt	7440-48-4	69.2	0.0202	0.101		2
06133	Copper	7440-50-8	25.9	0.0807	0.404		2
06135	Lead	7439-92-1	20.8	0.0103	0.202		2
06138	Molybdenum	7439-98-7	13.4	0.0505	0.101		2
06139	Nickel	7440-02-0	30.5	0.101	0.404		2
06141	Selenium	7782-49-2	2.50	0.0585	0.404		2
06142	Silver	7440-22-4	13.1	0.0143	0.101		2
06145	Thallium	7440-28-0	0.791	0.0303	0.101		2
06148	Vanadium	7440-62-2	56.5	0.0222	0.101		2
06149	Zinc	7440-66-6	148	0.565	3.03		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.169	0.0069	0.0982		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	1.9	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Sample Description: **SL-050-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414155
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4810 SDG#: DE248-10MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11269SLB026	10/04/2011 01:49	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11269SLA026	10/02/2011 14:50	Linda M Hartenstine	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLF026	10/02/2011 03:57	Gregory J Drahovsky	5
11630	NDMA Soil Microwave	SW-846 3546	1	11269SLB026	09/28/2011 14:00	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLF026	09/28/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11269SLA026	09/28/2011 19:00	Sally L Appleyard	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112690016A	10/04/2011 14:48	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670008A	09/28/2011 20:41	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670049A	09/30/2011 05:14	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670060A	10/04/2011 04:08	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670050A	09/29/2011 02:57	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112670060A	09/28/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670050A	09/28/2011 03:15	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670049A	09/28/2011 02:00	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670008A	09/26/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112690016A	09/29/2011 14:30	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112690024A	09/27/2011 05:58	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112720042A	09/29/2011 23:48	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112670044A	09/30/2011 09:23	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112680002A	09/29/2011 14:54	Heather E Williams	50
11238	EFH Extraction - Soils	SW-846 3550B	1	112680002A	09/26/2011 11:00	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112670044A	09/27/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112690024A	09/26/2011 20:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112720042A	09/29/2011 16:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112655708002	09/30/2011 18:09	John P Hook	1
07914	Boron	SW-846 6010B	1	112655708002	09/30/2011 18:09	John P Hook	1
01650	Calcium	SW-846 6010B	1	112655708002	09/30/2011 18:09	John P Hook	1
01654	Iron	SW-846 6010B	1	112655708002	09/30/2011 18:09	John P Hook	1
01656	Lithium	SW-846 6010B	1	112655708002	09/30/2011 18:09	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112655708002	09/30/2011 18:09	John P Hook	1
06958	Manganese	SW-846 6010B	1	112655708002	09/30/2011 18:09	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112655708002	09/30/2011 18:09	John P Hook	1
01662	Potassium	SW-846 6010B	1	112655708002	09/30/2011 18:09	John P Hook	1
01667	Sodium	SW-846 6010B	1	112655708002	09/30/2011 18:09	John P Hook	1
07968	Strontium	SW-846 6010B	1	112655708002	09/30/2011 18:09	John P Hook	1
06969	Tin	SW-846 6010B	1	112655708002	09/30/2011 18:09	John P Hook	1
06970	Titanium	SW-846 6010B	1	112765708002	10/04/2011 06:46	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112655708002	09/30/2011 18:09	John P Hook	1

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Sample Description: **SL-050-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414155
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4810 SDG#: DE248-10MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112651026001A	09/23/2011 08:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112651026001A	09/23/2011 08:33	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112651026001D	09/23/2011 08:33	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112651026001A	09/23/2011 08:33	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112651026001A	09/23/2011 08:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112651026001A	09/23/2011 08:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112651026001A	09/23/2011 08:33	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112651026001A	09/23/2011 08:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112651026001A	09/23/2011 08:33	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112651026001C	09/23/2011 08:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112651026001A	09/23/2011 08:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112651026001B	09/23/2011 08:33	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112651026001A	09/23/2011 08:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112651026001A	09/23/2011 08:33	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112651026001A	09/23/2011 08:33	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112651026001A	09/23/2011 08:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112655711001	09/23/2011 07:13	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112655708002	09/22/2011 21:29	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112765708002	10/03/2011 22:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112651026001	09/22/2011 21:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112655711001	09/23/2011 00:40	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11284162401A	10/11/2011 18:27	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-050-SA7-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414156
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4810 SDG#: DE248-10DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,500		5.93	19.6		1
07914	Boron	7440-42-8	0.957	J	0.353	4.90		1
01650	Calcium	7440-70-2	6,970		2.45	19.6		1
01654	Iron	7439-89-6	21,900		2.56	19.6		1
01656	Lithium	7439-93-2	24.7		0.61	2.0		1
01657	Magnesium	7439-95-4	4,910		0.431	9.80		1
06958	Manganese	7439-96-5	281		0.0353	0.490		1
10145	Phosphorus	7723-14-0	370		0.343	9.80		1
01662	Potassium	7440-09-7	3,020		11.1	49.0		1
01667	Sodium	7440-23-5	92.5	J	5.83	98.0		1
07968	Strontium	7440-24-6	21.8		0.0245	0.490		1
06969	Tin	7440-31-5	2.78	J	0.314	9.80		1
06970	Titanium	7440-32-6	1,170		0.0703	0.990		1
10146	Zirconium	7440-67-7	3.86	J	0.451	4.90		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.351		0.0747	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.28		0.0807	0.404		2
06126	Barium	7440-39-3	126		0.107	0.404		2
06127	Beryllium	7440-41-7	0.720		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.420		0.0444	0.101		2
06131	Chromium	7440-47-3	25.7		0.121	0.404		2
06132	Cobalt	7440-48-4	8.82		0.0202	0.101		2
06133	Copper	7440-50-8	14.5		0.0807	0.404		2
06135	Lead	7439-92-1	19.1		0.0103	0.202		2
06138	Molybdenum	7439-98-7	0.518		0.0505	0.101		2
06139	Nickel	7440-02-0	20.1		0.101	0.404		2
06141	Selenium	7782-49-2	0.153	J	0.0585	0.404		2
06142	Silver	7440-22-4	0.0628	J	0.0143	0.101		2
06145	Thallium	7440-28-0	0.340		0.0303	0.101		2
06148	Vanadium	7440-62-2	50.1		0.0222	0.101		2
06149	Zinc	7440-66-6	159		0.565	3.03		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0121	J	0.0070	0.0998		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.8		0.83	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.83	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.38	J	0.20	1.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-050-SA7-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414156
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4810 SDG#: DE248-10DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.15		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	1.9		0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.							
11625	Moisture Content by 160.3	n.a.	1.9		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	112655708002	09/30/2011 18:01	John P Hook	1
07914	Boron	SW-846 6010B	1	112655708002	09/30/2011 18:01	John P Hook	1
01650	Calcium	SW-846 6010B	1	112655708002	09/30/2011 18:01	John P Hook	1
01654	Iron	SW-846 6010B	1	112655708002	09/30/2011 18:01	John P Hook	1
01656	Lithium	SW-846 6010B	1	112655708002	09/30/2011 18:01	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112655708002	09/30/2011 18:01	John P Hook	1
06958	Manganese	SW-846 6010B	1	112655708002	09/30/2011 18:01	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112655708002	09/30/2011 18:01	John P Hook	1
01662	Potassium	SW-846 6010B	1	112655708002	09/30/2011 18:01	John P Hook	1
01667	Sodium	SW-846 6010B	1	112655708002	09/30/2011 18:01	John P Hook	1
07968	Strontium	SW-846 6010B	1	112655708002	09/30/2011 18:01	John P Hook	1
06969	Tin	SW-846 6010B	1	112655708002	09/30/2011 18:01	John P Hook	1
06970	Titanium	SW-846 6010B	1	112765708002	10/04/2011 06:38	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112655708002	09/30/2011 18:01	John P Hook	1
06124	Antimony	SW-846 6020	1	112651026001A	09/23/2011 08:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112651026001A	09/23/2011 08:26	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112651026001D	09/23/2011 08:26	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112651026001A	09/23/2011 08:26	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112651026001A	09/23/2011 08:26	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112651026001A	09/23/2011 08:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112651026001A	09/23/2011 08:26	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112651026001A	09/23/2011 08:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112651026001A	09/23/2011 08:26	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-050-SA7-SS-0.0-0.5DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414156
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4810 SDG#: DE248-10DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	112651026001C	09/23/2011 08:26	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112651026001A	09/23/2011 08:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112651026001B	09/23/2011 08:26	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112651026001A	09/23/2011 08:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112651026001A	09/23/2011 08:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112651026001A	09/23/2011 08:26	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112651026001A	09/23/2011 08:26	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112655711001	09/23/2011 07:11	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112655708002	09/22/2011 21:29	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112765708002	10/03/2011 22:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112651026001	09/22/2011 21:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112655711001	09/23/2011 00:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11271621201A	09/28/2011 22:20	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11271621201A	09/28/2011 22:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11266621202A	10/04/2011 14:33	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243201A	10/05/2011 17:22	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11275102201A	10/03/2011 09:22	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11271621201A	09/28/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621202A	09/23/2011 06:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11275102201A	10/02/2011 22:35	James S Mathiot	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11272039401B	09/29/2011 10:30	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243201A	10/03/2011 10:40	Michelle L Lalli	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11284162401A	10/11/2011 18:27	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11284162401A	10/11/2011 18:27	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-050-SA7-SS-0.0-0.5RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414157
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4810 SDG#: DE248-10RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	110	J	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	110	J	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	110	J	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	100	J	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	110	J	41	120	10000000	1
10132	HMX	2691-41-0	130	J	100	310	10000000	1
10132	Nitrobenzene	98-95-3	100	J	41	120	10000000	1
10132	Nitroglycerin	55-63-0	2,600		820	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	140		82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	130		100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	120		82	120	10000000	1
10132	PETN	78-11-5	2,700		820	2,400	10000000	1
10132	RDX	121-82-4	99	J	51	120	10000000	1
10132	Tetryl	479-45-8	75	J	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	110	J	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	120	J	41	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.8	J	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	4.2		0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.89	J	0.82	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	99	U	99	250		1
10401	2,4,5-T	93-76-5	0.35		0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

Reporting limits were raised due to interference from the sample matrix.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-050-SA7-SS-0.0-0.5RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414157
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4810 SDG#: DE248-10RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	1,700		610	1,500		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.078	J	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.074	J	0.035	0.17		1
01363	Beta BHC	319-85-7	0.083	J	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.084	J	0.035	0.17		1
01363	Chlordane	57-74-9	6.1		0.82	3.5		1
01363	p,p-DDD	72-54-8	0.72		0.067	0.35		1
01363	p,p-DDE	72-55-9	0.32	J	0.067	0.35		1
01363	p,p-DDT	50-29-3	1.4		0.067	0.35		1
01363	Delta BHC	319-86-8	0.12	J	0.037	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.35		1
01363	Endosulfan I	959-98-8	0.057	J	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.41		0.067	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.19	J	0.067	0.35		1
01363	Endrin	72-20-8	0.16	U	0.16	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.44	U	0.44	0.44		1
01363	Endrin Ketone	53494-70-5	0.57	U	0.57	0.57		1
01363	Heptachlor	76-44-8	0.10	J	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.15	J	0.035	0.17		1
01363	Methoxychlor	72-43-5	1.2	J	0.35	1.7		1
01363	Mirex	2385-85-5	0.76		0.067	0.35		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: heptachlor epoxide							
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	Reporting limits were raised due to interference from the sample matrix. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	7.8		1.0	3.4		1
10225	PCB-1016	12674-11-2	1.6	J	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	2.0		0.34	1.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-050-SA7-SS-0.0-0.5RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414157
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4810 SDG#: DE248-10RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	5.5		0.34	1.7		1
10225	PCB-1260	11096-82-5	4.8		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	860		100	510		1
10501	Isopropanol	67-63-0	870		100	510		1
10501	Methanol	67-56-1	1,100		100	510		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.								
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	20	U	20	61		50
10199	EFH (C15-C20)	n.a.	40	J	20	61		50
10199	EFH (C21-C30)	n.a.	280		20	61		50
10199	EFH (C30 - C40)	n.a.	1,100		20	61		50
10199	EFH (C8-C11)	n.a.	20	U	20	61		50
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	1.9		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10132	15a Energetics by 8330A	SW-846 8330A	1	112690016A	10/04/2011 15:31	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670008A	09/28/2011 20:50	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670049A	09/30/2011 10:43	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670060A	10/04/2011 00:17	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670050A	09/29/2011 03:16	Jessica L Miller	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **SL-050-SA7-SS-0.0-0.5RL MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414157
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4810 SDG#: DE248-10RLR

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112670060A	09/28/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670050A	09/28/2011 03:15	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670049A	09/28/2011 02:00	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670008A	09/26/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112690016A	09/29/2011 14:30	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112690024A	09/27/2011 06:13	Elizabeth J Marin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112670044A	09/30/2011 10:07	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112680002A	09/29/2011 15:18	Heather E Williams	50
11238	EFH Extraction - Soils	SW-846 3550B	1	112680002A	09/26/2011 11:00	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112670044A	09/27/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112690024A	09/26/2011 20:30	Elizabeth J Marin	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11284162401A	10/11/2011 18:27	Scott W Freisher	1

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Analysis Report

Sample Description: SL-050-SA7-SS-0.0-0.5RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414158
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4810 SDG#: DE248-10RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	110	J	60	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	110	J	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	80	U	80	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	80	U	80	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	110	J	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	110	J	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	100	J	40	120	10000000	1
10132	HMX	2691-41-0	120	J	100	300	10000000	1
10132	Nitrobenzene	98-95-3	110	J	40	120	10000000	1
10132	Nitroglycerin	55-63-0	1,900	J	800	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	120		80	120	10000000	1
10132	3-Nitrotoluene	99-08-1	120		100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	120		80	120	10000000	1
10132	PETN	78-11-5	2,400	J	800	2,400	10000000	1
10132	RDX	121-82-4	100	J	50	120	10000000	1
10132	Tetryl	479-45-8	110	J	61	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	110	J	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	110	J	40	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	4.4		1.2	3.6		1
10401	Dalapon	75-99-0	7.9	J	4.4	9.0		1
10401	2,4-DB	94-82-6	1.7		0.62	1.7		1
10401	Dicamba	1918-00-9	0.48	J	0.40	1.2		1
10401	Dinoseb	88-85-7	1.1	J	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	2.4		0.80	1.7		1
10401	MCPA	94-74-6	100	J	76	250		1
10401	MCPP (Mecoprop)	93-65-2	150	J	75	250		1
10401	2,4,5-T	93-76-5	0.21		0.082	0.17		1
10401	2,4,5-TP	93-72-1	0.12	J	0.075	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does

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Sample Description: SL-050-SA7-SS-0.0-0.5RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414158
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4810 SDG#: DE248-10RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	1,900		600	1,500		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.17	J	0.066	0.17		1
01363	Alpha BHC	319-84-6	0.092	J	0.034	0.17		1
01363	Beta BHC	319-85-7	0.15	J	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.11	J	0.034	0.17		1
01363	Chlordane	57-74-9	0.80	U	0.80	3.4		1
01363	p,p-DDD	72-54-8	0.31	J	0.066	0.34		1
01363	p,p-DDE	72-55-9	0.29	J	0.066	0.34		1
01363	p,p-DDT	50-29-3	0.33	J	0.066	0.34		1
01363	Delta BHC	319-86-8	0.14	J	0.036	0.17		1
01363	Dieldrin	60-57-1	0.17	J	0.066	0.34		1
01363	Endosulfan I	959-98-8	0.13	J	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.26	J	0.066	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.31	J	0.066	0.34		1
01363	Endrin	72-20-8	0.29	J	0.066	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.22	J	0.066	0.34		1
01363	Endrin Ketone	53494-70-5	0.32	J	0.066	0.34		1
01363	Heptachlor	76-44-8	0.12	J	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.18		0.034	0.17		1
01363	Methoxychlor	72-43-5	1.7		0.34	1.7		1
01363	Mirex	2385-85-5	0.066	U	0.066	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.6		1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: heptachlor epoxide							
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	The TCX surrogate recovery is below the client specified QC limit at 45%. Since the recovery is within our in-house statistical limits of 28-121%, the data is reported.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	1.6	J	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-050-SA7-SS-0.0-0.5RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414158
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4810 SDG#: DE248-10RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	1.8		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	880		100	500		1
10501	Isopropanol	67-63-0	880		100	500		1
10501	Methanol	67-56-1	1,100		100	500		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	J	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	0.85	J	0.40	1.2		1
10199	EFH (C21-C30)	n.a.	1.7		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	3.2		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.40	U	0.40	1.2		1

Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. The following corrective action was taken:
The sample was re-analyzed outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second analysis so all original results are reported.
Similar results were obtained in both trials.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10132	15a Energetics by 8330A	SW-846 8330A	1	112690016A	10/04/2011 16:13	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670008A	09/28/2011 21:00	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670049A	09/30/2011 11:11	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670060A	10/03/2011 21:20	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670050A	09/29/2011 03:34	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112670060A	09/28/2011 12:00	Olivia I Santiago	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: **SL-050-SA7-SS-0.0-0.5RL LCS Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414158
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4810 SDG#: DE248-10RLQ

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670050A	09/28/2011 03:15	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670049A	09/28/2011 02:00	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670008A	09/26/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112690016A	09/29/2011 14:30	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112690024A	09/27/2011 06:28	Elizabeth J Marin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112670044A	09/30/2011 00:54	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112680002A	10/02/2011 15:43	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112680002A	09/26/2011 11:00	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112670044A	09/27/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112690024A	09/26/2011 20:30	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-051-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA7-SS-0.0-0.5

LLI Sample # SW 6414159
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:45

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4811 SDG#: DE248-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	167	U	167	333		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	840	U	840	2,500		5
04688	Benzidine	92-87-5	5,900	U	5,900	17,000		5
04688	Benzo(a)anthracene	56-55-3	240	J	84	840		5
04688	Benzo(a)pyrene	50-32-8	190	J	84	840		5
04688	Benzo(b)fluoranthene	205-99-2	280	J	84	840		5
04688	Benzo(g,h,i)perylene	191-24-2	130	J	84	840		5
04688	Benzo(k)fluoranthene	207-08-9	130	J	84	840		5
04688	Benzoic acid	65-85-0	840	U	840	2,500		5
04688	Benzyl alcohol	100-51-6	840	U	840	2,500		5
04688	4-Bromophenyl-phenylether	101-55-3	84	U	84	840		5
04688	Carbazole	86-74-8	84	U	84	840		5
04688	4-Chloro-3-methylphenol	59-50-7	170	U	170	840		5
04688	4-Chloroaniline	106-47-8	340	U	340	840		5
04688	bis(2-Chloroethoxy)methane	111-91-1	84	U	84	840		5
04688	bis(2-Chloroethyl)ether	111-44-4	84	U	84	840		5
04688	bis(2-Chloroisopropyl)ether	39638-32-9	84	U	84	840		5
04688	2-Chloronaphthalene	91-58-7	84	U	84	840		5
04688	2-Chlorophenol	95-57-8	84	U	84	840		5
04688	4-Chlorophenyl-phenylether	7005-72-3	170	U	170	840		5
04688	Chrysene	218-01-9	260	J	84	840		5
04688	Dibenzofuran	132-64-9	84	U	84	840		5
04688	1,2-Dichlorobenzene	95-50-1	84	U	84	840		5
04688	1,3-Dichlorobenzene	541-73-1	84	U	84	840		5
04688	1,4-Dichlorobenzene	106-46-7	84	U	84	840		5
04688	3,3'-Dichlorobenzidine	91-94-1	500	U	500	1,700		5
04688	2,4-Dichlorophenol	120-83-2	84	U	84	840		5
04688	2,4-Dimethylphenol	105-67-9	170	U	170	840		5
04688	3,5-Dimethylphenol	108-68-9	170	U	170	840		5
04688	4,6-Dinitro-2-methylphenol	534-52-1	840	U	840	2,500		5
04688	2,4-Dinitrophenol	51-28-5	1,700	U	1,700	5,000		5
04688	2,4-Dinitrotoluene	121-14-2	170	U	170	840		5
04688	2,6-Dinitrotoluene	606-20-2	84	U	84	840		5
04688	1,2-Diphenylhydrazine	122-66-7	84	U	84	840		5
04688	Fluoranthene	206-44-0	550	J	84	840		5
04688	Hexachlorobenzene	118-74-1	84	U	84	840		5
04688	Hexachlorobutadiene	87-68-3	340	U	340	840		5
04688	Hexachlorocyclopentadiene	77-47-4	840	U	840	2,500		5
04688	Hexachloroethane	67-72-1	84	U	84	840		5
04688	Indeno(1,2,3-cd)pyrene	193-39-5	160	J	84	840		5
04688	Isophorone	78-59-1	84	U	84	840		5
04688	2-Methylphenol	95-48-7	170	U	170	840		5
04688	4-Methylphenol	106-44-5	170	U	170	840		5
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	84	U	84	840		5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-051-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA7-SS-0.0-0.5

LLI Sample # SW 6414159
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:45

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4811 SDG#: DE248-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	3-Nitroaniline	99-09-2	170	U	170	840		5
04688	4-Nitroaniline	100-01-6	340	U	340	840		5
04688	Nitrobenzene	98-95-3	84	U	84	840		5
04688	2-Nitrophenol	88-75-5	84	U	84	840		5
04688	4-Nitrophenol	100-02-7	840	U	840	2,500		5
04688	N-Nitroso-di-n-propylamine	621-64-7	84	U	84	840		5
04688	N-Nitrosodiphenylamine	86-30-6	84	U	84	840		5
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	840	U	840	2,500		5
04688	Phenanthrene	85-01-8	380	J	84	840		5
04688	Phenol	108-95-2	84	U	84	840		5
04688	Pyrene	129-00-0	460	J	84	840		5
04688	Tetralin	119-64-2	840	U	840	840		5
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	84	U	84	840		5
04688	2,4,5-Trichlorophenol	95-95-4	170	U	170	840		5
04688	2,4,6-Trichlorophenol	88-06-2	170	U	170	840		5
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.4		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.4		5
10138	Anthracene	120-12-7	9.6		1.7	8.4		5
10138	Butylbenzylphthalate	85-68-7	30	U	30	90		5
10138	Di-n-butylphthalate	84-74-2	30	U	30	90		5
10138	Dibenz(a,h)anthracene	53-70-3	10		3.4	8.4		5
10138	Diethylphthalate	84-66-2	30	U	30	90		5
10138	Dimethylphthalate	131-11-3	30	U	30	90		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	43	J	30	90		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.4		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.4		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.4		5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4		5
10138	Di-n-octylphthalate	117-84-0	30	U	30	90		5
	Reporting limits were raised due to interference from the sample matrix.							
	The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1

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Sample Description: **SL-051-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA7-SS-0.0-0.5

LLI Sample # SW 6414159
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:45

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4811 SDG#: DE248-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	40	U	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	40	U	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	40	U	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	40	U	40	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	40	U	40	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	50	U	50	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	40	U	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	40	U	40	120	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	8.3	U	8.3	8.3		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1
10401	MCPA	94-74-6	76	U	76	250		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.11	U	0.11	0.17		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1

Reporting limits were raised due to interference from the sample matrix.
The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

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SSFL Area IV Collocated Soil Sampling
SL-051-SA7-SS-0.0-0.5

LLI Sample # SW 6414159
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Chantilly VA 20151

E4811 SDG#: DE248-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	1.2	J	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.26	U	0.26	0.34		1
01363	p,p-DDE	72-55-9	0.15	U	0.15	0.34		1
01363	p,p-DDT	50-29-3	0.59		0.067	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.27	U	0.27	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.073	U	0.073	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.15	U	0.15	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.64	U	0.64	0.64		1
01363	Toxaphene	8001-35-2	12	U	12	12		1

The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards.
The following analyte is accepted based on this allowance: heptachlor epoxide

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

The TCX surrogate recovery is below the client specified QC limit at 32%. Since the recovery is within our in-house statistical limits of 28-121%, the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	3.0	J	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	1.9		0.33	1.7		1

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Sample Description: **SL-051-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA7-SS-0.0-0.5

LLI Sample # SW 6414159
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:45

Submitted: 09/21/2011 09:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4811 SDG#: DE248-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	1.5	J	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	280	J	100	500		1
10501	Methanol	67-56-1	100	U	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	20	U	20	61		50
10199	EFH (C15-C20)	n.a.	20	U	20	61		50
10199	EFH (C21-C30)	n.a.	290		20	61		50
10199	EFH (C30 - C40)	n.a.	1,100		20	61		50
10199	EFH (C8-C11)	n.a.	20	U	20	61		50
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,300		5.98	19.8		1
07914	Boron	7440-42-8	0.356	U	0.356	4.94		1
01650	Calcium	7440-70-2	4,200		2.47	19.8		1
01654	Iron	7439-89-6	20,300		2.58	19.8		1
01656	Lithium	7439-93-2	24.3		0.61	2.0		1
01657	Magnesium	7439-95-4	4,430		0.435	9.89		1
06958	Manganese	7439-96-5	267		0.0356	0.494		1
10145	Phosphorus	7723-14-0	936		0.346	9.89		1
01662	Potassium	7440-09-7	3,440		11.2	49.4		1
01667	Sodium	7440-23-5	76.2	J	5.88	98.9		1
07968	Strontium	7440-24-6	12.6		0.0247	0.494		1
06969	Tin	7440-31-5	3.03	J	0.316	9.89		1
06970	Titanium	7440-32-6	1,220		0.0709	0.999		1
10146	Zirconium	7440-67-7	2.38	J	0.455	4.94		1

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Sample Description: **SL-051-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA7-SS-0.0-0.5

LLI Sample # SW 6414159
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:45

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4811 SDG#: DE248-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.591		0.0718	0.194		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	13.5		0.0776	0.388		2
06126	Barium	7440-39-3	124		0.103	0.388		2
06127	Beryllium	7440-41-7	0.607		0.0155	0.0970		2
06128	Cadmium	7440-43-9	0.275		0.0427	0.0970		2
06131	Chromium	7440-47-3	22.0		0.116	0.388		2
06132	Cobalt	7440-48-4	8.03		0.0194	0.0970		2
06133	Copper	7440-50-8	18.8		0.0776	0.388		2
06135	Lead	7439-92-1	24.5		0.0099	0.194		2
06138	Molybdenum	7439-98-7	0.682		0.0485	0.0970		2
06139	Nickel	7440-02-0	17.4		0.0970	0.388		2
06141	Selenium	7782-49-2	0.121	J	0.0563	0.388		2
06142	Silver	7440-22-4	0.0763	J	0.0138	0.0970		2
06145	Thallium	7440-28-0	0.352		0.0291	0.0970		2
06148	Vanadium	7440-62-2	44.3		0.0213	0.0970		2
06149	Zinc	7440-66-6	135		0.543	2.91		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0130	J	0.0070	0.0988		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.7		0.82	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.16		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.87		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: **SL-051-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA7-SS-0.0-0.5

LLI Sample # SW 6414159
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E4811 SDG#: DE248-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11269SLB026	10/04/2011 02:09	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11269SLA026	10/02/2011 19:36	Linda M Hartenstine	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLF026	10/04/2011 18:29	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11269SLB026	09/28/2011 14:00	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLF026	09/28/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11269SLA026	09/28/2011 19:00	Sally L Appleyard	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112690016A	10/04/2011 16:55	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670008A	09/28/2011 21:10	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670049A	09/30/2011 11:38	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670060A	10/04/2011 03:11	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670050A	09/29/2011 03:53	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112670060A	09/28/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670050A	09/28/2011 03:15	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670049A	09/28/2011 02:00	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670008A	09/26/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112690016A	09/29/2011 14:30	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112690024A	09/27/2011 04:15	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112720042A	09/30/2011 00:01	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112670044A	09/30/2011 10:51	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112680002A	09/29/2011 15:42	Heather E Williams	50
11238	EFH Extraction - Soils	SW-846 3550B	1	112680002A	09/26/2011 11:00	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112670044A	09/27/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112690024A	09/26/2011 20:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112720042A	09/29/2011 16:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112655708002	09/30/2011 18:59	John P Hook	1
07914	Boron	SW-846 6010B	1	112655708002	09/30/2011 18:59	John P Hook	1
01650	Calcium	SW-846 6010B	1	112655708002	09/30/2011 18:59	John P Hook	1
01654	Iron	SW-846 6010B	1	112655708002	09/30/2011 18:59	John P Hook	1
01656	Lithium	SW-846 6010B	1	112655708002	09/30/2011 18:59	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112655708002	09/30/2011 18:59	John P Hook	1
06958	Manganese	SW-846 6010B	1	112655708002	09/30/2011 18:59	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112655708002	09/30/2011 18:59	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-051-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA7-SS-0.0-0.5

LLI Sample # SW 6414159
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:45

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4811 SDG#: DE248-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	112655708002	09/30/2011 18:59	John P Hook	1
01667	Sodium	SW-846 6010B	1	112655708002	09/30/2011 18:59	John P Hook	1
07968	Strontium	SW-846 6010B	1	112655708002	09/30/2011 18:59	John P Hook	1
06969	Tin	SW-846 6010B	1	112655708002	09/30/2011 18:59	John P Hook	1
06970	Titanium	SW-846 6010B	1	112765708002	10/04/2011 07:39	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112655708002	09/30/2011 18:59	John P Hook	1
06124	Antimony	SW-846 6020	1	112651026001A	09/23/2011 09:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112651026001A	09/23/2011 09:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112651026001D	09/23/2011 09:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112651026001A	09/23/2011 09:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112651026001A	09/23/2011 09:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112651026001A	09/23/2011 09:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112651026001A	09/23/2011 09:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112651026001A	09/23/2011 09:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112651026001A	09/23/2011 09:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112651026001C	09/23/2011 09:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112651026001A	09/23/2011 09:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112651026001B	09/23/2011 09:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112651026001A	09/23/2011 09:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112651026001A	09/23/2011 09:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112651026001A	09/23/2011 09:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112651026001A	09/23/2011 09:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112655711001	09/23/2011 07:15	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112655708002	09/22/2011 21:29	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112765708002	10/03/2011 22:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112651026001	09/22/2011 21:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112655711001	09/23/2011 00:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11271621201B	09/29/2011 01:38	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11271621201B	09/29/2011 01:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11266621202B	10/04/2011 19:09	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243201A	10/05/2011 17:29	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11275102201A	10/03/2011 09:23	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11271621201B	09/28/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621202B	09/23/2011 06:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11275102201A	10/02/2011 22:35	James S Mathiot	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11272039401B	09/29/2011 10:30	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243201A	10/03/2011 10:40	Michelle L Lalli	1

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Sample Description: **SL-051-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA7-SS-0.0-0.5

LLI Sample # SW 6414159
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:45

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4811 SDG#: DE248-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11284162401A	10/11/2011 18:27	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-085-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA7-SS-0.0-0.5

LLI Sample # SW 6414160
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 14:25

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4812 SDG#: DE248-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	169	U	169	337		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Sample Description: **SL-085-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-085-SA7-SS-0.0-0.5

LLI Sample # SW 6414160
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 14:25

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4812 SDG#: DE248-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	1.0	J	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	1.6	J	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	5.0		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	J	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	1.1	J	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	7.2	J	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	2.2		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Fluoranthene	206-44-0	3.7		0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	1.6	J	0.67	1.7		1
10138	Pyrene	129-00-0	3.8		0.67	1.7		1
	The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	1.0	U	1.0	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1

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Sample Description: SL-085-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA7-SS-0.0-0.5

LLI Sample # SW 6414160
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 14:25

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4812 SDG#: DE248-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

Reporting limits were raised due to interference from the sample matrix.
The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.1	U	2.1	5.1		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.14	U	0.14	0.34		1
01363	p,p-DDT	50-29-3	0.23	U	0.23	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.075	U	0.075	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards.
The following analyte is accepted based on this allowance: heptachlor epoxide

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-085-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA7-SS-0.0-0.5

LLI Sample # SW 6414160
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 14:25

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4812 SDG#: DE248-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	1.5	J	0.33	1.7		1
10225	PCB-1260	11096-82-5	0.52	J	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	0.89	J	0.40	1.2		1
10199	EFH (C21-C30)	n.a.	4.6		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	16		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.40	U	0.40	1.2		1

Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. The following corrective action was taken:
The sample was re-analyzed outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second analysis so all original results are reported.
Similar results were obtained in both trials.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,200		6.06	20.0		1
07914	Boron	7440-42-8	0.360	U	0.360	5.01		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-085-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-085-SA7-SS-0.0-0.5

LLI Sample # SW 6414160
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 14:25

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4812 SDG#: DE248-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	3,870		2.50	20.0		1
01654	Iron	7439-89-6	21,800		2.61	20.0		1
01656	Lithium	7439-93-2	24.1		0.62	2.0		1
01657	Magnesium	7439-95-4	5,060		0.440	10.0		1
06958	Manganese	7439-96-5	320		0.0360	0.501		1
10145	Phosphorus	7723-14-0	393		0.350	10.0		1
01662	Potassium	7440-09-7	3,550		11.3	50.1		1
01667	Sodium	7440-23-5	67.3	J	5.96	100		1
07968	Strontium	7440-24-6	14.5		0.0250	0.501		1
06969	Tin	7440-31-5	2.85	J	0.320	10.0		1
06970	Titanium	7440-32-6	1,300		0.0711	1.00		1
10146	Zirconium	7440-67-7	2.85	J	0.461	5.01		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.114	J	0.0741	0.200		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.92		0.0801	0.400		2
06126	Barium	7440-39-3	122		0.106	0.400		2
06127	Beryllium	7440-41-7	0.670		0.0160	0.100		2
06128	Cadmium	7440-43-9	0.176		0.0440	0.100		2
06131	Chromium	7440-47-3	23.7		0.120	0.400		2
06132	Cobalt	7440-48-4	7.88		0.0200	0.100		2
06133	Copper	7440-50-8	10.8		0.0801	0.400		2
06135	Lead	7439-92-1	10.5		0.0102	0.200		2
06138	Molybdenum	7439-98-7	0.498		0.0501	0.100		2
06139	Nickel	7440-02-0	15.9		0.100	0.400		2
06141	Selenium	7782-49-2	0.222	J	0.0581	0.400		2
06142	Silver	7440-22-4	0.0571	J	0.0142	0.100		2
06145	Thallium	7440-28-0	0.374		0.0300	0.100		2
06148	Vanadium	7440-62-2	46.1		0.0220	0.100		2
06149	Zinc	7440-66-6	76.3		0.561	3.00		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0123	J	0.0069	0.0984		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.81	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-085-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-085-SA7-SS-0.0-0.5

LLI Sample # SW 6414160
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 14:25

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4812 SDG#: DE248-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.53	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.1	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11269SLB026	10/04/2011 02:28	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11269SLA026	10/02/2011 20:01	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLF026	10/04/2011 19:01	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11269SLB026	09/28/2011 14:00	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLF026	09/28/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11269SLA026	09/28/2011 19:00	Sally L Appleyard	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670008A	09/28/2011 21:19	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670049A	09/30/2011 12:06	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112690003A	09/27/2011 15:26	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670060A	10/03/2011 22:34	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670050A	09/29/2011 04:12	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112670060A	09/28/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670050A	09/28/2011 03:15	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670049A	09/28/2011 02:00	Kerrie A Freeburn	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112690003A	09/27/2011 07:00	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670008A	09/26/2011 14:30	Wanda F Oswald	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112650034A	09/25/2011 02:40	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112720042A	09/30/2011 00:14	Tyler O Griffin	1

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Sample Description: **SL-085-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-085-SA7-SS-0.0-0.5

LLI Sample # SW 6414160
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 14:25

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4812 SDG#: DE248-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112670044A	09/30/2011 01:16	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112680002A	10/02/2011 16:07	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112680002A	09/26/2011 11:00	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112670044A	09/27/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112650034A	09/23/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112720042A	09/29/2011 16:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112655708002	09/30/2011 19:03	John P Hook	1
07914	Boron	SW-846 6010B	1	112655708002	09/30/2011 19:03	John P Hook	1
01650	Calcium	SW-846 6010B	1	112655708002	09/30/2011 19:03	John P Hook	1
01654	Iron	SW-846 6010B	1	112655708002	09/30/2011 19:03	John P Hook	1
01656	Lithium	SW-846 6010B	1	112655708002	09/30/2011 19:03	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112655708002	09/30/2011 19:03	John P Hook	1
06958	Manganese	SW-846 6010B	1	112655708002	09/30/2011 19:03	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112655708002	09/30/2011 19:03	John P Hook	1
01662	Potassium	SW-846 6010B	1	112655708002	09/30/2011 19:03	John P Hook	1
01667	Sodium	SW-846 6010B	1	112655708002	09/30/2011 19:03	John P Hook	1
07968	Strontium	SW-846 6010B	1	112655708002	09/30/2011 19:03	John P Hook	1
06969	Tin	SW-846 6010B	1	112655708002	09/30/2011 19:03	John P Hook	1
06970	Titanium	SW-846 6010B	1	112765708002	10/04/2011 07:43	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112655708002	09/30/2011 19:03	John P Hook	1
06124	Antimony	SW-846 6020	1	112651026001A	09/23/2011 09:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112651026001A	09/23/2011 09:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112651026001D	09/23/2011 09:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112651026001A	09/23/2011 09:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112651026001A	09/23/2011 09:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112651026001A	09/23/2011 09:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112651026001A	09/23/2011 09:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112651026001A	09/23/2011 09:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112651026001A	09/23/2011 09:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112651026001C	09/23/2011 09:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112651026001A	09/23/2011 09:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112651026001B	09/23/2011 09:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112651026001A	09/23/2011 09:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112651026001A	09/23/2011 09:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112651026001A	09/23/2011 09:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112651026001A	09/23/2011 09:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112655711001	09/23/2011 07:16	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112655708002	09/22/2011 21:29	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112765708002	10/03/2011 22:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112651026001	09/22/2011 21:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112655711001	09/23/2011 00:40	Annamaria Stipkovits	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-085-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-085-SA7-SS-0.0-0.5

LLI Sample # SW 6414160
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 14:25

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4812 SDG#: DE248-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11271621201B	09/29/2011 06:57	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11271621201B	09/29/2011 06:57	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11266621202B	10/04/2011 20:42	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243201A	10/05/2011 17:43	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11271621201B	09/28/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621202B	09/23/2011 06:05	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11272039401B	09/29/2011 10:30	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243201A	10/03/2011 10:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11270162402A	09/27/2011 21:20	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-125-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SS-0.0-0.5

LLI Sample # SW 6414161
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 15:20

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4813 SDG#: DE248-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	U	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-125-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SS-0.0-0.5

LLI Sample # SW 6414161
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 15:20

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4813 SDG#: DE248-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.4		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.4		5
10138	Anthracene	120-12-7	4.6	J	1.7	8.4		5
10138	Benzo(a)anthracene	56-55-3	11		3.4	8.4		5
10138	Benzo(a)pyrene	50-32-8	11		3.4	8.4		5
10138	Benzo(b)fluoranthene	205-99-2	23		3.4	8.4		5
10138	Benzo(g,h,i)perylene	191-24-2	5.4	J	3.4	8.4		5
10138	Benzo(k)fluoranthene	207-08-9	6.8	J	3.4	8.4		5
10138	Chrysene	218-01-9	16		1.7	8.4		5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.4		5
10138	Fluoranthene	206-44-0	25		3.4	8.4		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.4		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.5	J	3.4	8.4		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.4		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.4		5
10138	Naphthalene	91-20-3	3.4	U	3.4	8.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4		5
10138	Phenanthrene	85-01-8	22		3.4	8.4		5
10138	Pyrene	129-00-0	29		3.4	8.4		5
	Reporting limits were raised due to interference from the sample matrix.							
	The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.9	J	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	1.0	J	0.33	1.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-125-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SS-0.0-0.5

LLI Sample # SW 6414161
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 15:20

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4813 SDG#: DE248-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	4.8		0.33	1.7		1
10225	PCB-1260	11096-82-5	3.0		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,800		6.05	20.0		1
07914	Boron	7440-42-8	0.360	U	0.360	5.00		1
01650	Calcium	7440-70-2	2,950		2.50	20.0		1
01654	Iron	7439-89-6	19,000		2.61	20.0		1
01656	Lithium	7439-93-2	24.0		0.62	2.0		1
01657	Magnesium	7439-95-4	4,300		0.440	9.99		1
06958	Manganese	7439-96-5	250		0.0360	0.500		1
10145	Phosphorus	7723-14-0	381		0.350	9.99		1
01662	Potassium	7440-09-7	3,110		11.3	50.0		1
01667	Sodium	7440-23-5	69.8	J	5.95	99.9		1
07968	Strontium	7440-24-6	14.1		0.0250	0.500		1
06969	Tin	7440-31-5	1.04	J	0.320	9.99		1
06970	Titanium	7440-32-6	1,090		0.0689	0.971		1
10146	Zirconium	7440-67-7	2.31	J	0.460	5.00		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.131	J	0.0718	0.194		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.26		0.0777	0.388		2
06126	Barium	7440-39-3	91.8		0.103	0.388		2
06127	Beryllium	7440-41-7	0.504		0.0155	0.0971		2
06128	Cadmium	7440-43-9	0.220		0.0427	0.0971		2
06131	Chromium	7440-47-3	16.2		0.116	0.388		2
06132	Cobalt	7440-48-4	5.90		0.0194	0.0971		2
06133	Copper	7440-50-8	8.16		0.0777	0.388		2
06135	Lead	7439-92-1	6.85		0.0099	0.194		2
06138	Molybdenum	7439-98-7	0.478		0.0485	0.0971		2
06139	Nickel	7440-02-0	10.7		0.0971	0.388		2
06141	Selenium	7782-49-2	0.128	J	0.0563	0.388		2
06142	Silver	7440-22-4	0.0244	J	0.0138	0.0971		2
06145	Thallium	7440-28-0	0.287		0.0291	0.0971		2
06148	Vanadium	7440-62-2	31.8		0.0214	0.0971		2
06149	Zinc	7440-66-6	75.3		0.544	2.91		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0106	J	0.0069	0.0982		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-125-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SS-0.0-0.5

LLI Sample # SW 6414161
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 15:20

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4813 SDG#: DE248-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.78		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.94		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11269SLA026	10/02/2011 20:26	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLF026	10/04/2011 19:34	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLF026	09/28/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11269SLA026	09/28/2011 19:00	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670050A	09/29/2011 05:46	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670050A	09/28/2011 03:15	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	112655708002	09/30/2011 19:14	John P Hook	1
07914	Boron	SW-846 6010B	1	112655708002	09/30/2011 19:14	John P Hook	1
01650	Calcium	SW-846 6010B	1	112655708002	09/30/2011 19:14	John P Hook	1
01654	Iron	SW-846 6010B	1	112655708002	09/30/2011 19:14	John P Hook	1
01656	Lithium	SW-846 6010B	1	112655708002	09/30/2011 19:14	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112655708002	09/30/2011 19:14	John P Hook	1
06958	Manganese	SW-846 6010B	1	112655708002	09/30/2011 19:14	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112655708002	09/30/2011 19:14	John P Hook	1
01662	Potassium	SW-846 6010B	1	112655708002	09/30/2011 19:14	John P Hook	1

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-125-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SS-0.0-0.5

LLI Sample # SW 6414161
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 15:20

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4813 SDG#: DE248-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	112655708002	09/30/2011 19:14	John P Hook	1
07968	Strontium	SW-846 6010B	1	112655708002	09/30/2011 19:14	John P Hook	1
06969	Tin	SW-846 6010B	1	112655708002	09/30/2011 19:14	John P Hook	1
06970	Titanium	SW-846 6010B	1	112765708002	10/04/2011 07:47	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112655708002	09/30/2011 19:14	John P Hook	1
06124	Antimony	SW-846 6020	1	112651026001A	09/23/2011 09:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112651026001A	09/23/2011 09:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112651026001D	09/23/2011 09:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112651026001A	09/23/2011 09:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112651026001A	09/23/2011 09:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112651026001A	09/23/2011 09:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112651026001A	09/23/2011 09:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112651026001A	09/23/2011 09:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112651026001A	09/23/2011 09:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112651026001C	09/23/2011 09:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112651026001A	09/23/2011 09:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112651026001B	09/23/2011 09:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112651026001A	09/23/2011 09:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112651026001A	09/23/2011 09:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112651026001A	09/23/2011 09:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112651026001A	09/23/2011 09:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112655711001	09/23/2011 07:17	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112655708002	09/22/2011 21:29	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112765708002	10/03/2011 22:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112651026001	09/22/2011 21:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112655711001	09/23/2011 00:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11271621201B	09/29/2011 07:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11266621202B	10/04/2011 21:05	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243201A	10/05/2011 17:58	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11271621201B	09/28/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621202B	09/23/2011 06:05	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11272039401B	09/29/2011 10:30	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243201A	10/03/2011 10:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11270162402A	09/27/2011 21:20	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-129-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-129-SA7-SS-0.0-0.5

LLI Sample # SW 6414162
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:35

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4814 SDG#: DE248-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-129-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-129-SA7-SS-0.0-0.5

LLI Sample # SW 6414162
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:35

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4814 SDG#: DE248-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	J	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.33	U	0.33	1.7		1
10138	Anthracene	120-12-7	0.74	J	0.33	1.7		1
10138	Benzo(a)anthracene	56-55-3	6.6		0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	9.4		0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	20		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	3.8		0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	6.8		0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	10	J	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	13		0.33	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	1.0	J	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	45		6.0	18		1
10138	Fluoranthene	206-44-0	23		0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.5		0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	12		0.67	1.7		1
10138	Pyrene	129-00-0	24		0.67	1.7		1
	The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	2.6		0.62	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1
10401	MCPA	94-74-6	76	U	76	250		1
10401	MCPP (Mecoprop)	93-65-2	170	U	170	250		1
10401	2,4,5-T	93-76-5	0.082	U	0.082	0.17		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-129-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-129-SA7-SS-0.0-0.5

LLI Sample # SW 6414162
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:35

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4814 SDG#: DE248-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	Reporting limits were raised due to interference from the sample matrix. The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	2.1	J	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.066	U	0.066	0.34		1
01363	p,p-DDE	72-55-9	0.22	U	0.22	0.34		1
01363	p,p-DDT	50-29-3	0.41	U	0.41	0.41		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.066	U	0.066	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.19	U	0.19	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34		1
01363	Endrin	72-20-8	0.066	U	0.066	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.066	U	0.066	0.34		1
01363	Endrin Ketone	53494-70-5	0.066	U	0.066	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.069	U	0.069	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.6		1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: heptachlor epoxide Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	3.5		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	1.4	J	0.33	1.7		1
10225	PCB-1260	11096-82-5	2.0		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
	The sample was injected numerous times. Each time the responses for							

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Sample Description: **SL-129-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-129-SA7-SS-0.0-0.5

LLI Sample # SW 6414162
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:35

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4814 SDG#: DE248-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	100	U	100	500		1
	The surrogate data in the original extract is outside the QC limits. Results from the reextraction are also outside the QC limits, indicating possible matrix interference.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	2.6		0.40	1.2		1
10199	EFH (C21-C30)	n.a.	8.5		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	26		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.40	U	0.40	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,700		5.97	19.7		1
07914	Boron	7440-42-8	0.355	U	0.355	4.94		1
01650	Calcium	7440-70-2	3,140		2.47	19.7		1
01654	Iron	7439-89-6	21,700		2.58	19.7		1
01656	Lithium	7439-93-2	28.9		0.61	2.0		1
01657	Magnesium	7439-95-4	6,630		0.434	9.87		1
06958	Manganese	7439-96-5	288		0.0355	0.494		1
10145	Phosphorus	7723-14-0	468		0.346	9.87		1
01662	Potassium	7440-09-7	3,780		11.2	49.4		1
01667	Sodium	7440-23-5	70.7	J	5.88	98.7		1
07968	Strontium	7440-24-6	11.8		0.0247	0.494		1
06969	Tin	7440-31-5	1.08	J	0.316	9.87		1
06970	Titanium	7440-32-6	1,310		0.0694	0.978		1
10146	Zirconium	7440-67-7	2.48	J	0.454	4.94		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-129-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-129-SA7-SS-0.0-0.5

LLI Sample # SW 6414162
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:35

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4814 SDG#: DE248-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.163	J	0.0731	0.197		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.84		0.0790	0.395		2
06126	Barium	7440-39-3	107		0.105	0.395		2
06127	Beryllium	7440-41-7	0.510		0.0158	0.0987		2
06128	Cadmium	7440-43-9	0.180		0.0434	0.0987		2
06131	Chromium	7440-47-3	24.5		0.118	0.395		2
06132	Cobalt	7440-48-4	6.96		0.0197	0.0987		2
06133	Copper	7440-50-8	11.8		0.0790	0.395		2
06135	Lead	7439-92-1	20.0		0.0101	0.197		2
06138	Molybdenum	7439-98-7	0.519		0.0494	0.0987		2
06139	Nickel	7440-02-0	15.7		0.0987	0.395		2
06141	Selenium	7782-49-2	0.146	J	0.0573	0.395		2
06142	Silver	7440-22-4	0.132		0.0140	0.0987		2
06145	Thallium	7440-28-0	0.294		0.0296	0.0987		2
06148	Vanadium	7440-62-2	44.9		0.0217	0.0987		2
06149	Zinc	7440-66-6	83.6		0.553	2.96		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0171	J	0.0070	0.0998		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.49		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.42		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.71		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-129-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-129-SA7-SS-0.0-0.5

LLI Sample # SW 6414162
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:35

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4814 SDG#: DE248-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11269SLA026	10/02/2011 20:51	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLF026	10/04/2011 20:06	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLF026	09/28/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11269SLA026	09/28/2011 19:00	Sally L Appleyard	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670049A	09/30/2011 12:34	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670060A	10/03/2011 22:48	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670050A	09/29/2011 06:05	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112670060A	09/28/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670050A	09/28/2011 03:15	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670049A	09/28/2011 02:00	Kerrie A Freeburn	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112690024A	09/27/2011 04:30	Elizabeth J Marin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112690024A	09/28/2011 03:08	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112720042A	09/30/2011 00:26	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112670044A	09/30/2011 01:38	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112680002A	10/02/2011 16:31	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112680002A	09/26/2011 11:00	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112670044A	09/27/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112690024A	09/26/2011 20:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112720042A	09/29/2011 16:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112655708002	09/30/2011 19:18	John P Hook	1
07914	Boron	SW-846 6010B	1	112655708002	09/30/2011 19:18	John P Hook	1
01650	Calcium	SW-846 6010B	1	112655708002	09/30/2011 19:18	John P Hook	1
01654	Iron	SW-846 6010B	1	112655708002	09/30/2011 19:18	John P Hook	1
01656	Lithium	SW-846 6010B	1	112655708002	09/30/2011 19:18	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112655708002	09/30/2011 19:18	John P Hook	1
06958	Manganese	SW-846 6010B	1	112655708002	09/30/2011 19:18	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112655708002	09/30/2011 19:18	John P Hook	1
01662	Potassium	SW-846 6010B	1	112655708002	09/30/2011 19:18	John P Hook	1
01667	Sodium	SW-846 6010B	1	112655708002	09/30/2011 19:18	John P Hook	1
07968	Strontium	SW-846 6010B	1	112655708002	09/30/2011 19:18	John P Hook	1
06969	Tin	SW-846 6010B	1	112655708002	09/30/2011 19:18	John P Hook	1
06970	Titanium	SW-846 6010B	1	112765708002	10/04/2011 08:00	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112655708002	09/30/2011 19:18	John P Hook	1

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Sample Description: **SL-129-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-129-SA7-SS-0.0-0.5

LLI Sample # SW 6414162
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:35

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4814 SDG#: DE248-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112651026001A	09/23/2011 09:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112651026001A	09/23/2011 09:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112651026001D	09/23/2011 09:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112651026001A	09/23/2011 09:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	2	112651026001A	09/23/2011 15:01	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112651026001A	09/23/2011 09:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112651026001A	09/23/2011 09:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112651026001A	09/23/2011 09:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112651026001A	09/23/2011 09:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112651026001C	09/23/2011 09:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112651026001A	09/23/2011 09:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112651026001B	09/23/2011 09:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112651026001A	09/23/2011 09:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112651026001A	09/23/2011 09:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112651026001A	09/23/2011 09:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112651026001A	09/23/2011 09:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112655711001	09/23/2011 07:18	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112655708002	09/22/2011 21:29	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112765708002	10/03/2011 22:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112651026001	09/22/2011 21:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112655711001	09/23/2011 00:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11271621201B	09/29/2011 07:27	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11266621202B	10/04/2011 21:28	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243201A	10/05/2011 18:27	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11276102201A	10/03/2011 20:11	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11271621201B	09/28/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621202B	09/23/2011 06:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11276102201A	10/03/2011 15:00	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11272039401B	09/29/2011 10:30	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243201A	10/03/2011 10:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11270162402A	09/27/2011 21:20	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-134-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA7-SS-0.0-0.5

LLI Sample # SW 6414163
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:25

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4815 SDG#: DE248-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	168	U	168	337		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	78	J	17	170		1
04688	Aniline	62-53-3	170	U	170	510		1
04688	Anthracene	120-12-7	230		17	170		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(a)anthracene	56-55-3	840		17	170		1
04688	Benzo(a)pyrene	50-32-8	680		17	170		1
04688	Benzo(b)fluoranthene	205-99-2	960		17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	470		17	170		1
04688	Benzo(k)fluoranthene	207-08-9	400		17	170		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	200		17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Chrysene	218-01-9	840		17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	120	J	17	170		1
04688	Dibenzofuran	132-64-9	57	J	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	30	J	17	340		1
04688	Fluoranthene	206-44-0	1,900		17	170		1
04688	Fluorene	86-73-7	65	J	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1

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Sample Description: **SL-134-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-134-SA7-SS-0.0-0.5

LLI Sample # SW 6414163
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:25

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4815 SDG#: DE248-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	450		17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	19	J	17	170		1
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenanthrene	85-01-8	1,400		17	170		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	1,600		17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthylene	208-96-8	3.7	J	1.7	8.4		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.4		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	40	U	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1

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Sample Description: **SL-134-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-134-SA7-SS-0.0-0.5

LLI Sample # SW 6414163
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:25

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4815 SDG#: DE248-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3-Dinitrobenzene	99-65-0	40	U	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	40	U	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	40	U	40	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	40	U	40	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	40	U	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	40	U	40	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	19	U	19	19		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	120	U	120	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.16	U	0.16	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	Reporting limits were raised due to interference from the sample matrix. The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	

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Sample Description: **SL-134-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-134-SA7-SS-0.0-0.5

LLI Sample # SW 6414163
LLI Group # 1267605
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Project Name: SSFL Area IV Collocated Soil Sampling

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E4815 SDG#: DE248-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	2.2	J	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.30	U	0.30	0.34		1
01363	p,p-DDE	72-55-9	0.23	U	0.23	0.34		1
01363	p,p-DDT	50-29-3	0.51	U	0.51	0.51		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	1.1		0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.23	U	0.23	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.13	U	0.13	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.44	U	0.44	0.44		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.084	J	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.42	U	0.42	0.42		1
01363	Toxaphene	8001-35-2	15	U	15	15		1

The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards.
The following analyte is accepted based on this allowance: heptachlor epoxide

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

The TCX surrogate recovery is below the client specified QC limit at 45%. Since the recovery is within our in-house statistical limits of 28-121%, the data is reported.

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	4.4		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	1.2	J	0.33	1.7		1
10225	PCB-1260	11096-82-5	1.8		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1

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Sample Description: SL-134-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-134-SA7-SS-0.0-0.5

LLI Sample # SW 6414163
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:25

Submitted: 09/21/2011 09:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E4815 SDG#: DE248-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	110	J	100	510		1
10501	Methanol	67-56-1	250	J	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.0	U	4.0	12		10
10199	EFH (C15-C20)	n.a.	15		4.0	12		10
10199	EFH (C21-C30)	n.a.	92		4.0	12		10
10199	EFH (C30 - C40)	n.a.	260		4.0	12		10
10199	EFH (C8-C11)	n.a.	4.0	U	4.0	12		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,900		6.05	20.0		1
07914	Boron	7440-42-8	0.360	U	0.360	5.00		1
01650	Calcium	7440-70-2	3,330		2.50	20.0		1
01654	Iron	7439-89-6	19,800		2.61	20.0		1
01656	Lithium	7439-93-2	23.4		0.62	2.0		1
01657	Magnesium	7439-95-4	4,390		0.440	10.0		1
06958	Manganese	7439-96-5	259		0.0360	0.500		1
10145	Phosphorus	7723-14-0	549		0.350	10.0		1
01662	Potassium	7440-09-7	3,880		11.3	50.0		1
01667	Sodium	7440-23-5	64.4	J	5.95	100		1
07968	Strontium	7440-24-6	12.4		0.0250	0.500		1
06969	Tin	7440-31-5	2.89	J	0.320	10.0		1
06970	Titanium	7440-32-6	1,090		0.0703	0.990		1
10146	Zirconium	7440-67-7	2.35	J	0.460	5.00		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-134-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-134-SA7-SS-0.0-0.5

LLI Sample # SW 6414163
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:25

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4815 SDG#: DE248-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.242		0.0747	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.75		0.0808	0.404		2
06126	Barium	7440-39-3	103		0.107	0.404		2
06127	Beryllium	7440-41-7	0.531		0.0162	0.101		2
06128	Cadmium	7440-43-9	0.240		0.0444	0.101		2
06131	Chromium	7440-47-3	20.0		0.121	0.404		2
06132	Cobalt	7440-48-4	6.43		0.0202	0.101		2
06133	Copper	7440-50-8	11.3		0.0808	0.404		2
06135	Lead	7439-92-1	16.8		0.0103	0.202		2
06138	Molybdenum	7439-98-7	0.657		0.0505	0.101		2
06139	Nickel	7440-02-0	13.4		0.101	0.404		2
06141	Selenium	7782-49-2	0.139	J	0.0586	0.404		2
06142	Silver	7440-22-4	0.0837	J	0.0143	0.101		2
06145	Thallium	7440-28-0	0.284		0.0303	0.101		2
06148	Vanadium	7440-62-2	37.5		0.0222	0.101		2
06149	Zinc	7440-66-6	102		0.566	3.03		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0138	J	0.0070	0.0999		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80	U	0.80	0.99		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.1		0.80	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.17	U	0.17	0.48		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.56		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-134-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-134-SA7-SS-0.0-0.5

LLI Sample # SW 6414163
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:25

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4815 SDG#: DE248-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11269SLB026	10/04/2011 02:48	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11269SLA026	10/02/2011 21:16	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLF026	10/05/2011 19:37	Gregory J Drahovsky	5
11630	NDMA Soil Microwave	SW-846 3546	1	11269SLB026	09/28/2011 14:00	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLF026	09/28/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11269SLA026	09/28/2011 19:00	Sally L Appleyard	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112690016A	10/04/2011 17:38	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670008A	09/28/2011 21:29	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670049A	09/30/2011 13:01	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670060A	10/04/2011 02:30	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670050A	09/29/2011 06:23	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112670060A	09/28/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670050A	09/28/2011 03:15	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670049A	09/28/2011 02:00	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670008A	09/26/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112690016A	09/29/2011 14:30	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112690024A	09/27/2011 04:45	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112720042A	09/30/2011 00:39	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112670044A	09/30/2011 04:58	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112680002A	10/02/2011 20:30	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112680002A	09/26/2011 11:00	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112670044A	09/27/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112690024A	09/26/2011 20:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112720042A	09/29/2011 16:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112655708002	09/30/2011 19:22	John P Hook	1
07914	Boron	SW-846 6010B	1	112655708002	09/30/2011 19:22	John P Hook	1
01650	Calcium	SW-846 6010B	1	112655708002	09/30/2011 19:22	John P Hook	1
01654	Iron	SW-846 6010B	1	112655708002	09/30/2011 19:22	John P Hook	1
01656	Lithium	SW-846 6010B	1	112655708002	09/30/2011 19:22	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112655708002	09/30/2011 19:22	John P Hook	1
06958	Manganese	SW-846 6010B	1	112655708002	09/30/2011 19:22	John P Hook	1

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Sample Description: **SL-134-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-134-SA7-SS-0.0-0.5

LLI Sample # SW 6414163
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:25

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4815 SDG#: DE248-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	112655708002	09/30/2011 19:22	John P Hook	1
01662	Potassium	SW-846 6010B	1	112655708002	09/30/2011 19:22	John P Hook	1
01667	Sodium	SW-846 6010B	1	112655708002	09/30/2011 19:22	John P Hook	1
07968	Strontium	SW-846 6010B	1	112655708002	09/30/2011 19:22	John P Hook	1
06969	Tin	SW-846 6010B	1	112655708002	09/30/2011 19:22	John P Hook	1
06970	Titanium	SW-846 6010B	1	112765708002	10/04/2011 08:04	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112655708002	09/30/2011 19:22	John P Hook	1
06124	Antimony	SW-846 6020	1	112651026001A	09/23/2011 09:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112651026001A	09/23/2011 09:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112651026001D	09/23/2011 09:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112651026001A	09/23/2011 09:32	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112651026001A	09/23/2011 09:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112651026001A	09/23/2011 09:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112651026001A	09/23/2011 09:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112651026001A	09/23/2011 09:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112651026001A	09/23/2011 09:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112651026001C	09/23/2011 09:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112651026001A	09/23/2011 09:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112651026001B	09/23/2011 09:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112651026001A	09/23/2011 09:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112651026001A	09/23/2011 09:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112651026001A	09/23/2011 09:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112651026001A	09/23/2011 09:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112655711001	09/23/2011 07:21	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112655708002	09/22/2011 21:29	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112765708002	10/03/2011 22:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112651026001	09/22/2011 21:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112655711001	09/23/2011 00:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11271621201B	09/29/2011 07:42	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11271621201B	09/29/2011 07:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11266621202B	10/04/2011 21:51	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243201A	10/05/2011 18:41	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11276102201A	10/03/2011 20:15	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11271621201B	09/28/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621202B	09/23/2011 06:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11276102201A	10/03/2011 15:00	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11272039401B	09/29/2011 10:30	Michele L Graham	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-134-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-134-SA7-SS-0.0-0.5

LLI Sample # SW 6414163
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:25

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4815 SDG#: DE248-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243201A	10/03/2011 10:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11284162401A	10/11/2011 18:27	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-135-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-135-SA7-SS-0.0-0.5

LLI Sample # SW 6414164
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 08:10

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4816 SDG#: DE248-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	170	U	170	340		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	850	U	850	2,600		5
04688	Benzidine	92-87-5	6,000	U	6,000	17,000		5
04688	Benzoic acid	65-85-0	850	U	850	2,600		5
04688	Benzyl alcohol	100-51-6	850	U	850	2,600		5
04688	4-Bromophenyl-phenylether	101-55-3	85	U	85	850		5
04688	Butylbenzylphthalate	85-68-7	85	U	85	850		5
04688	Di-n-butylphthalate	84-74-2	85	U	85	850		5
04688	Carbazole	86-74-8	280	J	85	850		5
04688	4-Chloro-3-methylphenol	59-50-7	170	U	170	850		5
04688	4-Chloroaniline	106-47-8	340	U	340	850		5
04688	bis(2-Chloroethoxy)methane	111-91-1	85	U	85	850		5
04688	bis(2-Chloroethyl)ether	111-44-4	85	U	85	850		5
04688	bis(2-Chloroisopropyl)ether	39638-32-9	85	U	85	850		5
04688	2-Chloronaphthalene	91-58-7	85	U	85	850		5
04688	2-Chlorophenol	95-57-8	85	U	85	850		5
04688	4-Chlorophenyl-phenylether	7005-72-3	170	U	170	850		5
04688	Dibenzofuran	132-64-9	93	J	85	850		5
04688	1,2-Dichlorobenzene	95-50-1	85	U	85	850		5
04688	1,3-Dichlorobenzene	541-73-1	85	U	85	850		5
04688	1,4-Dichlorobenzene	106-46-7	85	U	85	850		5
04688	3,3'-Dichlorobenzidine	91-94-1	510	U	510	1,700		5
04688	2,4-Dichlorophenol	120-83-2	85	U	85	850		5
04688	Diethylphthalate	84-66-2	85	U	85	850		5
04688	2,4-Dimethylphenol	105-67-9	170	U	170	850		5
04688	3,5-Dimethylphenol	108-68-9	170	U	170	850		5
04688	Dimethylphthalate	131-11-3	85	U	85	850		5
04688	4,6-Dinitro-2-methylphenol	534-52-1	850	U	850	2,600		5
04688	2,4-Dinitrophenol	51-28-5	1,700	U	1,700	5,100		5
04688	2,4-Dinitrotoluene	121-14-2	170	U	170	850		5
04688	2,6-Dinitrotoluene	606-20-2	85	U	85	850		5
04688	1,2-Diphenylhydrazine	122-66-7	85	U	85	850		5
04688	bis(2-Ethylhexyl)phthalate	117-81-7	85	U	85	1,700		5
04688	Hexachlorobenzene	118-74-1	85	U	85	850		5
04688	Hexachlorobutadiene	87-68-3	340	U	340	850		5
04688	Hexachlorocyclopentadiene	77-47-4	850	U	850	2,600		5
04688	Hexachloroethane	67-72-1	85	U	85	850		5
04688	Isophorone	78-59-1	85	U	85	850		5
04688	2-Methylphenol	95-48-7	170	U	170	850		5
04688	4-Methylphenol	106-44-5	170	U	170	850		5
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	85	U	85	850		5
04688	3-Nitroaniline	99-09-2	170	U	170	850		5
04688	4-Nitroaniline	100-01-6	340	U	340	850		5
04688	Nitrobenzene	98-95-3	85	U	85	850		5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-135-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-135-SA7-SS-0.0-0.5

LLI Sample # SW 6414164
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 08:10

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4816 SDG#: DE248-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2-Nitrophenol	88-75-5	85	U	85	850		5
04688	4-Nitrophenol	100-02-7	850	U	850	2,600		5
04688	N-Nitroso-di-n-propylamine	621-64-7	85	U	85	850		5
04688	N-Nitrosodiphenylamine	86-30-6	85	U	85	850		5
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	630	J	85	850		5
04688	Pentachlorophenol	87-86-5	850	U	850	2,600		5
04688	Phenol	108-95-2	85	U	85	850		5
04688	Tetralin	119-64-2	850	U	850	850		5
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	85	U	85	850		5
04688	2,4,5-Trichlorophenol	95-95-4	170	U	170	850		5
04688	2,4,6-Trichlorophenol	88-06-2	170	U	170	850		5
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	1,000		34	84		50
10138	Acenaphthylene	208-96-8	38	J	17	84		50
10138	Anthracene	120-12-7	1,300		17	84		50
10138	Benzo(a)anthracene	56-55-3	3,500		34	84		50
10138	Benzo(a)pyrene	50-32-8	3,500		34	84		50
10138	Benzo(b)fluoranthene	205-99-2	5,600		34	84		50
10138	Benzo(g,h,i)perylene	191-24-2	1,600		34	84		50
10138	Benzo(k)fluoranthene	207-08-9	1,900		34	84		50
10138	Chrysene	218-01-9	4,200		17	84		50
10138	Dibenz(a,h)anthracene	53-70-3	390		34	84		50
10138	Fluoranthene	206-44-0	13,000		34	84		50
10138	Fluorene	86-73-7	980		34	84		50
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1,600		34	84		50
10138	1-Methylnaphthalene	90-12-0	130		34	84		50
10138	2-Methylnaphthalene	91-57-6	160		34	84		50
10138	Naphthalene	91-20-3	780		34	84		50
10138	N-Nitrosodimethylamine	62-75-9	34	U	34	84		50
10138	Phenanthrene	85-01-8	11,000		34	84		50
10138	Pyrene	129-00-0	9,300		34	84		50
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	240	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-135-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-135-SA7-SS-0.0-0.5

LLI Sample # SW 6414164
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 08:10

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4816 SDG#: DE248-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,400	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	0.63	U	0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	110	U	110	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

Reporting limits were raised due to interference from the sample matrix.
The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1

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Sample Description: **SL-135-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-135-SA7-SS-0.0-0.5

LLI Sample # SW 6414164
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4816 SDG#: DE248-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	2.6	J	0.82	3.5		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35		1
01363	p,p-DDE	72-55-9	0.18	J	0.067	0.35		1
01363	p,p-DDT	50-29-3	2.0		0.067	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	1.1		0.067	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.35		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.051	U	0.051	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.67	U	0.67	0.67		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards.
The following analyte is accepted based on this allowance: heptachlor epoxide

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

The DCB surrogate recovery is outside the client specified QC limit at 132%. Since the recovery is within our in-house statistical limits of 45-150%, the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	10		1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	4.1		0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	3.9		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the

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Sample Description: **SL-135-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-135-SA7-SS-0.0-0.5

LLI Sample # SW 6414164
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 08:10

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4816 SDG#: DE248-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	360	J	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	20	U	20	61		50
10199	EFH (C15-C20)	n.a.	60	J	20	61		50
10199	EFH (C21-C30)	n.a.	400		20	61		50
10199	EFH (C30 - C40)	n.a.	1,200		20	61		50
10199	EFH (C8-C11)	n.a.	20	U	20	61		50
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	16,700		6.11	20.2		1
07914	Boron	7440-42-8	0.364	U	0.364	5.05		1
01650	Calcium	7440-70-2	10,900		2.53	20.2		1
01654	Iron	7439-89-6	24,300		2.64	20.2		1
01656	Lithium	7439-93-2	24.4		0.63	2.0		1
01657	Magnesium	7439-95-4	5,350		0.445	10.1		1
06958	Manganese	7439-96-5	289		0.0364	0.505		1
10145	Phosphorus	7723-14-0	374		0.354	10.1		1
01662	Potassium	7440-09-7	3,270		11.4	50.5		1
01667	Sodium	7440-23-5	74.6	J	6.01	101		1
07968	Strontium	7440-24-6	29.0		0.0253	0.505		1
06969	Tin	7440-31-5	2.91	J	0.323	10.1		1
06970	Titanium	7440-32-6	1,210		0.0710	1.00		1
10146	Zirconium	7440-67-7	4.60	J	0.465	5.05		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.217		0.0733	0.198		2

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Sample Description: **SL-135-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-135-SA7-SS-0.0-0.5

LLI Sample # SW 6414164
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 08:10

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4816 SDG#: DE248-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.72		0.0793	0.396		2
06126	Barium	7440-39-3	114		0.105	0.396		2
06127	Beryllium	7440-41-7	0.615		0.0159	0.0991		2
06128	Cadmium	7440-43-9	0.440		0.0436	0.0991		2
06131	Chromium	7440-47-3	25.5		0.119	0.396		2
06132	Cobalt	7440-48-4	7.54		0.0198	0.0991		2
06133	Copper	7440-50-8	13.9		0.0793	0.396		2
06135	Lead	7439-92-1	35.3		0.0101	0.198		2
06138	Molybdenum	7439-98-7	0.477		0.0495	0.0991		2
06139	Nickel	7440-02-0	16.0		0.0991	0.396		2
06141	Selenium	7782-49-2	0.140	J	0.0575	0.396		2
06142	Silver	7440-22-4	0.0686	J	0.0141	0.0991		2
06145	Thallium	7440-28-0	0.287		0.0297	0.0991		2
06148	Vanadium	7440-62-2	46.0		0.0218	0.0991		2
06149	Zinc	7440-66-6	169		0.555	2.97		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0163	J	0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1		0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.82	U	0.82	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.16		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: **SL-135-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-135-SA7-SS-0.0-0.5

LLI Sample # SW 6414164
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 08:10

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E4816 SDG#: DE248-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11269SLB026	10/04/2011 03:08	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11269SLA026	10/02/2011 21:41	Linda M Hartenstine	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLF026	10/05/2011 20:10	Gregory J Drahovsky	50
11630	NDMA Soil Microwave	SW-846 3546	1	11269SLB026	09/28/2011 14:00	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLF026	09/28/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11269SLA026	09/28/2011 19:00	Sally L Appleyard	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112690016A	10/04/2011 18:20	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670008A	09/28/2011 21:38	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670049A	09/30/2011 13:29	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670060A	10/04/2011 02:43	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670050A	09/29/2011 06:42	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112670060A	09/28/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670050A	09/28/2011 03:15	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670049A	09/28/2011 02:00	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670008A	09/26/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112690016A	09/29/2011 14:30	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112690024A	09/27/2011 04:59	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112720042A	09/30/2011 01:05	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112670044A	09/30/2011 05:20	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112680002A	09/29/2011 16:05	Heather E Williams	50
11238	EFH Extraction - Soils	SW-846 3550B	1	112680002A	09/26/2011 11:00	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112670044A	09/27/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112690024A	09/26/2011 20:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112720042A	09/29/2011 16:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112655708002	09/30/2011 19:26	John P Hook	1
07914	Boron	SW-846 6010B	1	112655708002	09/30/2011 19:26	John P Hook	1
01650	Calcium	SW-846 6010B	1	112655708002	09/30/2011 19:26	John P Hook	1
01654	Iron	SW-846 6010B	1	112655708002	09/30/2011 19:26	John P Hook	1
01656	Lithium	SW-846 6010B	1	112655708002	09/30/2011 19:26	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112655708002	09/30/2011 19:26	John P Hook	1
06958	Manganese	SW-846 6010B	1	112655708002	09/30/2011 19:26	John P Hook	1

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Sample Description: **SL-135-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-135-SA7-SS-0.0-0.5

LLI Sample # SW 6414164
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 08:10

Submitted: 09/21/2011 09:00
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E4816 SDG#: DE248-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	112655708002	09/30/2011 19:26	John P Hook	1
01662	Potassium	SW-846 6010B	1	112655708002	09/30/2011 19:26	John P Hook	1
01667	Sodium	SW-846 6010B	1	112655708002	09/30/2011 19:26	John P Hook	1
07968	Strontium	SW-846 6010B	1	112655708002	09/30/2011 19:26	John P Hook	1
06969	Tin	SW-846 6010B	1	112655708002	09/30/2011 19:26	John P Hook	1
06970	Titanium	SW-846 6010B	1	112765708002	10/04/2011 08:08	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112655708002	09/30/2011 19:26	John P Hook	1
06124	Antimony	SW-846 6020	1	112651026001A	09/23/2011 09:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112651026001A	09/23/2011 09:35	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112651026001D	09/23/2011 09:35	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112651026001A	09/23/2011 09:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112651026001A	09/23/2011 09:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112651026001A	09/23/2011 09:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112651026001A	09/23/2011 09:35	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112651026001A	09/23/2011 09:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112651026001A	09/23/2011 09:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112651026001C	09/23/2011 09:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112651026001A	09/23/2011 09:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112651026001B	09/23/2011 09:35	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112651026001A	09/23/2011 09:35	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112651026001A	09/23/2011 09:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112651026001A	09/23/2011 09:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112651026001A	09/23/2011 09:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112655711001	09/23/2011 07:23	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112655708002	09/22/2011 21:29	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112765708002	10/03/2011 22:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112651026001	09/22/2011 21:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112655711001	09/23/2011 00:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11271621201B	09/29/2011 07:57	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11271621201B	09/29/2011 07:57	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11266621202B	10/04/2011 22:14	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243201A	10/05/2011 18:55	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11276102201A	10/03/2011 20:18	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11271621201B	09/28/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621202B	09/23/2011 06:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11276102201A	10/03/2011 15:00	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11272039401B	09/29/2011 10:30	Michele L Graham	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-135-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-135-SA7-SS-0.0-0.5

LLI Sample # SW 6414164
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 08:10

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4816 SDG#: DE248-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243201A	10/03/2011 10:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11284162401A	10/11/2011 18:27	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-173-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-173-SA7-SS-0.0-0.5

LLI Sample # SW 6414165
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 14:45

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4817 SDG#: DE248-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	168	U	168	337		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-173-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-173-SA7-SS-0.0-0.5

LLI Sample # SW 6414165
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 14:45

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4817 SDG#: DE248-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.79	J	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	2.5		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	0.93	J	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Fluoranthene	206-44-0	1.5	J	0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	0.84	J	0.67	1.7		1
10138	Pyrene	129-00-0	1.4	J	0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	1.9		0.62	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1
10401	MCPA	94-74-6	76	U	76	250		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.25		0.082	0.17		1

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Sample Description: **SL-173-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-173-SA7-SS-0.0-0.5

LLI Sample # SW 6414165
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 14:45

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4817 SDG#: DE248-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.1	U	2.1	5.0		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.80	U	0.80	3.4		1
01363	p,p-DDD	72-54-8	0.066	U	0.066	0.34		1
01363	p,p-DDE	72-55-9	0.093	J	0.066	0.34		1
01363	p,p-DDT	50-29-3	0.072	J	0.066	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.066	U	0.066	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.066	U	0.066	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34		1
01363	Endrin	72-20-8	0.066	U	0.066	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.066	U	0.066	0.34		1
01363	Endrin Ketone	53494-70-5	0.066	U	0.066	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.066	U	0.066	0.34		1
01363	Toxaphene	8001-35-2	2.5	J	2.2	6.6		1
	The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: heptachlor epoxide							
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-173-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-173-SA7-SS-0.0-0.5

LLI Sample # SW 6414165
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 14:45

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4817 SDG#: DE248-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	100	U	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	0.67	J	0.40	1.2		1
10199	EFH (C21-C30)	n.a.	4.3		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	13		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.40	U	0.40	1.2		1
	Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. The following corrective action was taken: The sample was re-analyzed outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second analysis so all original results are reported. Similar results were obtained in both trials.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,400		6.05	20.0		1
07914	Boron	7440-42-8	0.360	U	0.360	5.00		1
01650	Calcium	7440-70-2	3,440		2.50	20.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-173-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-173-SA7-SS-0.0-0.5

LLI Sample # SW 6414165
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 14:45

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4817 SDG#: DE248-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	21,200		2.61	20.0		1
01656	Lithium	7439-93-2	22.8		0.62	2.0		1
01657	Magnesium	7439-95-4	5,300		0.440	10.0		1
06958	Manganese	7439-96-5	277		0.0360	0.500		1
10145	Phosphorus	7723-14-0	399		0.350	10.0		1
01662	Potassium	7440-09-7	2,430		11.3	50.0		1
01667	Sodium	7440-23-5	68.5	J	5.95	100		1
07968	Strontium	7440-24-6	16.1		0.0250	0.500		1
06969	Tin	7440-31-5	2.98	J	0.320	10.0		1
06970	Titanium	7440-32-6	1,330		0.0689	0.971		1
10146	Zirconium	7440-67-7	2.00	J	0.460	5.00		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.245		0.0733	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.70		0.0792	0.396		2
06126	Barium	7440-39-3	130		0.105	0.396		2
06127	Beryllium	7440-41-7	0.640		0.0158	0.0990		2
06128	Cadmium	7440-43-9	0.105		0.0436	0.0990		2
06131	Chromium	7440-47-3	24.9		0.119	0.396		2
06132	Cobalt	7440-48-4	8.79		0.0198	0.0990		2
06133	Copper	7440-50-8	10.6		0.0792	0.396		2
06135	Lead	7439-92-1	7.43		0.0101	0.198		2
06138	Molybdenum	7439-98-7	0.556		0.0495	0.0990		2
06139	Nickel	7440-02-0	16.0		0.0990	0.396		2
06141	Selenium	7782-49-2	0.235	J	0.0574	0.396		2
06142	Silver	7440-22-4	0.0447	J	0.0141	0.0990		2
06145	Thallium	7440-28-0	0.396		0.0297	0.0990		2
06148	Vanadium	7440-62-2	49.3		0.0218	0.0990		2
06149	Zinc	7440-66-6	82.7		0.554	2.97		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0067	U	0.0067	0.0957		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.2		0.82	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-173-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-173-SA7-SS-0.0-0.5

LLI Sample # SW 6414165
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 14:45

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4817 SDG#: DE248-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.04	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	0.97	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11269SLB026	10/04/2011 03:28	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11269SLA026	10/02/2011 22:06	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLF026	10/05/2011 20:43	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11269SLB026	09/28/2011 14:00	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLF026	09/28/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11269SLA026	09/28/2011 19:00	Sally L Appleyard	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670008A	09/28/2011 21:48	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670049A	09/30/2011 13:57	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112690003A	09/27/2011 15:39	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670060A	10/03/2011 23:03	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670050A	09/29/2011 07:01	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112670060A	09/28/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670050A	09/28/2011 03:15	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670049A	09/28/2011 02:00	Kerrie A Freeburn	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112690003A	09/27/2011 07:00	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670008A	09/26/2011 14:30	Wanda F Oswald	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112650034A	09/25/2011 03:39	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112720042A	09/30/2011 01:18	Tyler O Griffin	1

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Sample Description: SL-173-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-173-SA7-SS-0.0-0.5

LLI Sample # SW 6414165
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 14:45

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4817 SDG#: DE248-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112670044A	09/30/2011 02:00	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112680002A	10/02/2011 16:55	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112680002A	09/26/2011 11:00	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112670044A	09/27/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112650034A	09/23/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112720042A	09/29/2011 16:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112655708002	09/30/2011 19:30	John P Hook	1
07914	Boron	SW-846 6010B	1	112655708002	09/30/2011 19:30	John P Hook	1
01650	Calcium	SW-846 6010B	1	112655708002	09/30/2011 19:30	John P Hook	1
01654	Iron	SW-846 6010B	1	112655708002	09/30/2011 19:30	John P Hook	1
01656	Lithium	SW-846 6010B	1	112655708002	09/30/2011 19:30	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112655708002	09/30/2011 19:30	John P Hook	1
06958	Manganese	SW-846 6010B	1	112655708002	09/30/2011 19:30	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112655708002	09/30/2011 19:30	John P Hook	1
01662	Potassium	SW-846 6010B	1	112655708002	09/30/2011 19:30	John P Hook	1
01667	Sodium	SW-846 6010B	1	112655708002	09/30/2011 19:30	John P Hook	1
07968	Strontium	SW-846 6010B	1	112655708002	09/30/2011 19:30	John P Hook	1
06969	Tin	SW-846 6010B	1	112655708002	09/30/2011 19:30	John P Hook	1
06970	Titanium	SW-846 6010B	1	112765708002	10/04/2011 08:12	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112655708002	09/30/2011 19:30	John P Hook	1
06124	Antimony	SW-846 6020	1	112651026001A	09/23/2011 09:38	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112651026001A	09/23/2011 09:38	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112651026001D	09/23/2011 09:38	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112651026001A	09/23/2011 09:38	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112651026001A	09/23/2011 09:38	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112651026001A	09/23/2011 09:38	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112651026001A	09/23/2011 09:38	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112651026001A	09/23/2011 09:38	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112651026001A	09/23/2011 09:38	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112651026001C	09/23/2011 09:38	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112651026001A	09/23/2011 09:38	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112651026001B	09/23/2011 09:38	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112651026001A	09/23/2011 09:38	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112651026001A	09/23/2011 09:38	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112651026001A	09/23/2011 09:38	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112651026001A	09/23/2011 09:38	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112655711001	09/23/2011 07:24	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112655708002	09/22/2011 21:29	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112765708002	10/03/2011 22:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112651026001	09/22/2011 21:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112655711001	09/23/2011 00:40	Annamaria Stipkovits	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-173-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-173-SA7-SS-0.0-0.5

LLI Sample # SW 6414165
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 14:45

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4817 SDG#: DE248-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11271621201B	10/03/2011 11:49	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11271621201B	09/29/2011 08:43	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11266621202B	10/04/2011 22:37	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243201A	10/05/2011 19:10	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11271621201B	09/28/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621202B	09/23/2011 06:05	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11272039401B	09/29/2011 10:30	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243201A	10/03/2011 10:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11270162402A	09/27/2011 21:20	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: DUP03-SA7-QC-092011 Soil
SSFL Area IV Collocated Soil Sampling
DUP03-SA7-QC-092011

LLI Sample # SW 6414166
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:35

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4818 SDG#: DE248-18FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	169	U	169	338		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	140	J	85	850		5
04688	Aniline	62-53-3	850	U	850	2,500		5
04688	Anthracene	120-12-7	430	J	85	850		5
04688	Benzidine	92-87-5	5,900	U	5,900	17,000		5
04688	Benzo(a)anthracene	56-55-3	1,300		85	850		5
04688	Benzo(a)pyrene	50-32-8	980		85	850		5
04688	Benzo(b)fluoranthene	205-99-2	1,400		85	850		5
04688	Benzo(g,h,i)perylene	191-24-2	590	J	85	850		5
04688	Benzo(k)fluoranthene	207-08-9	500	J	85	850		5
04688	Benzoic acid	65-85-0	850	U	850	2,500		5
04688	Benzyl alcohol	100-51-6	850	U	850	2,500		5
04688	4-Bromophenyl-phenylether	101-55-3	85	U	85	850		5
04688	Carbazole	86-74-8	340	J	85	850		5
04688	4-Chloro-3-methylphenol	59-50-7	170	U	170	850		5
04688	4-Chloroaniline	106-47-8	340	U	340	850		5
04688	bis(2-Chloroethoxy)methane	111-91-1	85	U	85	850		5
04688	bis(2-Chloroethyl)ether	111-44-4	85	U	85	850		5
04688	bis(2-Chloroisopropyl)ether	39638-32-9	85	U	85	850		5
04688	2-Chloronaphthalene	91-58-7	85	U	85	850		5
04688	2-Chlorophenol	95-57-8	85	U	85	850		5
04688	4-Chlorophenyl-phenylether	7005-72-3	170	U	170	850		5
04688	Chrysene	218-01-9	1,200		85	850		5
04688	Dibenz(a,h)anthracene	53-70-3	160	J	85	850		5
04688	Dibenzofuran	132-64-9	98	J	85	850		5
04688	1,2-Dichlorobenzene	95-50-1	85	U	85	850		5
04688	1,3-Dichlorobenzene	541-73-1	85	U	85	850		5
04688	1,4-Dichlorobenzene	106-46-7	85	U	85	850		5
04688	3,3'-Dichlorobenzidine	91-94-1	510	U	510	1,700		5
04688	2,4-Dichlorophenol	120-83-2	85	U	85	850		5
04688	2,4-Dimethylphenol	105-67-9	170	U	170	850		5
04688	3,5-Dimethylphenol	108-68-9	170	U	170	850		5
04688	4,6-Dinitro-2-methylphenol	534-52-1	850	U	850	2,500		5
04688	2,4-Dinitrophenol	51-28-5	1,700	U	1,700	5,100		5
04688	2,4-Dinitrotoluene	121-14-2	170	U	170	850		5
04688	2,6-Dinitrotoluene	606-20-2	85	U	85	850		5
04688	1,2-Diphenylhydrazine	122-66-7	85	U	85	850		5
04688	Fluoranthene	206-44-0	3,500		85	850		5
04688	Fluorene	86-73-7	150	J	85	850		5
04688	Hexachlorobenzene	118-74-1	85	U	85	850		5
04688	Hexachlorobutadiene	87-68-3	340	U	340	850		5
04688	Hexachlorocyclopentadiene	77-47-4	850	U	850	2,500		5
04688	Hexachloroethane	67-72-1	85	U	85	850		5
04688	Indeno(1,2,3-cd)pyrene	193-39-5	610	J	85	850		5
04688	Isophorone	78-59-1	85	U	85	850		5
04688	2-Methylphenol	95-48-7	170	U	170	850		5
04688	4-Methylphenol	106-44-5	170	U	170	850		5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP03-SA7-QC-092011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP03-SA7-QC-092011

LLI Sample # SW 6414166
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:35

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4818 SDG#: DE248-18FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	85	U	85	850		5
04688	3-Nitroaniline	99-09-2	170	U	170	850		5
04688	4-Nitroaniline	100-01-6	340	U	340	850		5
04688	Nitrobenzene	98-95-3	85	U	85	850		5
04688	2-Nitrophenol	88-75-5	85	U	85	850		5
04688	4-Nitrophenol	100-02-7	850	U	850	2,500		5
04688	N-Nitroso-di-n-propylamine	621-64-7	85	U	85	850		5
04688	N-Nitrosodiphenylamine	86-30-6	85	U	85	850		5
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	850	U	850	2,500		5
04688	Phenanthrene	85-01-8	2,400		85	850		5
04688	Phenol	108-95-2	85	U	85	850		5
04688	Pyrene	129-00-0	2,700		85	850		5
04688	Tetralin	119-64-2	850	U	850	850		5
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	85	U	85	850		5
04688	2,4,5-Trichlorophenol	95-95-4	170	U	170	850		5
04688	2,4,6-Trichlorophenol	88-06-2	170	U	170	850		5
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthylene	208-96-8	4.4	J	3.4	17		10
10138	Butylbenzylphthalate	85-68-7	60	U	60	180		10
10138	Di-n-butylphthalate	84-74-2	60	U	60	180		10
10138	Diethylphthalate	84-66-2	60	U	60	180		10
10138	Dimethylphthalate	131-11-3	60	U	60	180		10
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	61	J	60	180		10
10138	1-Methylnaphthalene	90-12-0	6.7	U	6.7	17		10
10138	2-Methylnaphthalene	91-57-6	7.1	J	6.7	17		10
10138	Naphthalene	91-20-3	22		6.7	17		10
10138	N-Nitrosodimethylamine	62-75-9	6.7	U	6.7	17		10
10138	Di-n-octylphthalate	117-84-0	60	U	60	180		10
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP03-SA7-QC-092011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP03-SA7-QC-092011

LLI Sample # SW 6414166
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:35

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4818 SDG#: DE248-18FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	J	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	1.6	U	1.6	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.11	J	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	Reporting limits were raised due to interference from the sample matrix. The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1

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SSFL Area IV Collocated Soil Sampling
DUP03-SA7-QC-092011

LLI Sample # SW 6414166
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4818 SDG#: DE248-18FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	5.8		0.81	3.5		1
01363	p,p-DDD	72-54-8	0.90	U	0.90	0.90		1
01363	p,p-DDE	72-55-9	0.23	U	0.23	0.35		1
01363	p,p-DDT	50-29-3	1.6	U	1.6	1.6		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.16	U	0.16	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.14	U	0.14	0.35		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.16	J	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.72	U	0.72	1.7		1
01363	Mirex	2385-85-5	0.73	U	0.73	0.73		1
01363	Toxaphene	8001-35-2	20	U	20	20		1

The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards.
The following analyte is accepted based on this allowance: heptachlor epoxide

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

The TCX surrogate recovery is below the client specified QC limit at 45%. Since the recovery is within our in-house statistical limits of 28-121%, the data is reported.

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	6.9		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1
10225	PCB-1260	11096-82-5	5.5		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1

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Sample Description: **DUP03-SA7-QC-092011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP03-SA7-QC-092011

LLI Sample # SW 6414166
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:35

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4818 SDG#: DE248-18FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	20	U	20	61		50
10199	EFH (C15-C20)	n.a.	54	J	20	61		50
10199	EFH (C21-C30)	n.a.	370		20	61		50
10199	EFH (C30 - C40)	n.a.	1,200		20	61		50
10199	EFH (C8-C11)	n.a.	20	U	20	61		50
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,500		5.91	19.5		1
07914	Boron	7440-42-8	0.997	J	0.351	4.88		1
01650	Calcium	7440-70-2	9,990		2.44	19.5		1
01654	Iron	7439-89-6	24,900		2.55	19.5		1
01656	Lithium	7439-93-2	26.1		0.61	2.0		1
01657	Magnesium	7439-95-4	5,480		0.430	9.76		1
06958	Manganese	7439-96-5	306		0.0351	0.488		1
10145	Phosphorus	7723-14-0	390		0.342	9.76		1
01662	Potassium	7440-09-7	3,300		11.0	48.8		1
01667	Sodium	7440-23-5	97.4	J	5.81	97.6		1
07968	Strontium	7440-24-6	28.6		0.0244	0.488		1
06969	Tin	7440-31-5	2.81	J	0.312	9.76		1
06970	Titanium	7440-32-6	1,190		0.0700	0.986		1
10146	Zirconium	7440-67-7	3.97	J	0.449	4.88		1

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Sample Description: **DUP03-SA7-QC-092011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP03-SA7-QC-092011

LLI Sample # SW 6414166
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:35

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4818 SDG#: DE248-18FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.313		0.0729	0.197		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.73		0.0789	0.394		2
06126	Barium	7440-39-3	129		0.104	0.394		2
06127	Beryllium	7440-41-7	0.654		0.0158	0.0986		2
06128	Cadmium	7440-43-9	0.474		0.0434	0.0986		2
06131	Chromium	7440-47-3	25.9		0.118	0.394		2
06132	Cobalt	7440-48-4	8.49		0.0197	0.0986		2
06133	Copper	7440-50-8	14.8		0.0789	0.394		2
06135	Lead	7439-92-1	19.8		0.0101	0.197		2
06138	Molybdenum	7439-98-7	0.499		0.0493	0.0986		2
06139	Nickel	7440-02-0	20.0		0.0986	0.394		2
06141	Selenium	7782-49-2	0.148	J	0.0572	0.394		2
06142	Silver	7440-22-4	0.0672	J	0.0140	0.0986		2
06145	Thallium	7440-28-0	0.357		0.0296	0.0986		2
06148	Vanadium	7440-62-2	48.6		0.0217	0.0986		2
06149	Zinc	7440-66-6	127		1.38	7.39		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0115	J	0.0066	0.0944		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8		0.83	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.4	J	0.83	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.17	U	0.17	0.49		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.37		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: **DUP03-SA7-QC-092011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP03-SA7-QC-092011

LLI Sample # SW 6414166
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:35

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E4818 SDG#: DE248-18FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11269SLB026	10/04/2011 03:47	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11269SLA026	10/02/2011 22:31	Linda M Hartenstine	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLF026	10/05/2011 21:15	Gregory J Drahovsky	10
11630	NDMA Soil Microwave	SW-846 3546	1	11269SLB026	09/28/2011 14:00	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLF026	09/28/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11269SLA026	09/28/2011 19:00	Sally L Appleyard	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112690016A	10/04/2011 19:02	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670008A	09/28/2011 21:57	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670049A	09/30/2011 15:19	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670060A	10/04/2011 06:04	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670050A	09/29/2011 07:20	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112670060A	09/28/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670050A	09/28/2011 03:15	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670049A	09/28/2011 02:00	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670008A	09/26/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112690016A	09/29/2011 14:30	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112690024A	09/27/2011 05:14	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112720042A	09/30/2011 01:31	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112670044A	09/30/2011 05:42	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112680002A	09/29/2011 16:29	Heather E Williams	50
11238	EFH Extraction - Soils	SW-846 3550B	1	112680002A	09/26/2011 11:00	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112670044A	09/27/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112690024A	09/26/2011 20:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112720042A	09/29/2011 16:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112655708002	09/30/2011 19:34	John P Hook	1
07914	Boron	SW-846 6010B	1	112655708002	09/30/2011 19:34	John P Hook	1
01650	Calcium	SW-846 6010B	1	112655708002	09/30/2011 19:34	John P Hook	1
01654	Iron	SW-846 6010B	1	112655708002	09/30/2011 19:34	John P Hook	1
01656	Lithium	SW-846 6010B	1	112655708002	09/30/2011 19:34	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112655708002	09/30/2011 19:34	John P Hook	1
06958	Manganese	SW-846 6010B	1	112655708002	09/30/2011 19:34	John P Hook	1

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Sample Description: **DUP03-SA7-QC-092011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP03-SA7-QC-092011

LLI Sample # SW 6414166
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:35

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4818 SDG#: DE248-18FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	112655708002	09/30/2011 19:34	John P Hook	1
01662	Potassium	SW-846 6010B	1	112655708002	09/30/2011 19:34	John P Hook	1
01667	Sodium	SW-846 6010B	1	112655708002	09/30/2011 19:34	John P Hook	1
07968	Strontium	SW-846 6010B	1	112655708002	09/30/2011 19:34	John P Hook	1
06969	Tin	SW-846 6010B	1	112655708002	09/30/2011 19:34	John P Hook	1
06970	Titanium	SW-846 6010B	1	112765708002	10/04/2011 08:16	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112655708002	09/30/2011 19:34	John P Hook	1
06124	Antimony	SW-846 6020	1	112651026001A	09/23/2011 09:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112651026001A	09/23/2011 09:41	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112651026001D	09/23/2011 09:41	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112651026001A	09/23/2011 09:41	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112651026001A	09/23/2011 09:41	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112651026001A	09/23/2011 09:41	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112651026001A	09/23/2011 09:41	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112651026001A	09/23/2011 09:41	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112651026001A	09/23/2011 09:41	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112651026001C	09/23/2011 09:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112651026001A	09/23/2011 09:41	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112651026001B	09/23/2011 09:41	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112651026001A	09/23/2011 09:41	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112651026001A	09/23/2011 09:41	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112651026001A	09/23/2011 09:41	Choon Y Tian	2
06149	Zinc	SW-846 6020	2	112651026001A	09/23/2011 15:03	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	112655711001	09/23/2011 07:25	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112655708002	09/22/2011 21:29	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112765708002	10/03/2011 22:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112651026001	09/22/2011 21:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112655711001	09/23/2011 00:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11271621201B	10/03/2011 12:04	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11271621201B	09/29/2011 08:58	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11266621202B	10/04/2011 23:00	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243201A	10/05/2011 19:24	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11276102201A	10/03/2011 20:20	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11271621201B	09/28/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621202B	09/23/2011 06:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11276102201A	10/03/2011 15:00	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11272039401B	09/29/2011 10:30	Michele L Graham	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP03-SA7-QC-092011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP03-SA7-QC-092011

LLI Sample # SW 6414166
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:35

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4818 SDG#: DE248-18FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243201A	10/03/2011 10:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11284162401A	10/11/2011 18:27	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-136-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA7-SS-0.0-0.5

LLI Sample # SW 6414167
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:35

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4819 SDG#: DE248-19*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	169	U	169	337		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	850	U	850	2,500		5
04688	Anthracene	120-12-7	92	J	85	850		5
04688	Benzidine	92-87-5	5,900	U	5,900	17,000		5
04688	Benzo(g,h,i)perylene	191-24-2	240	J	85	850		5
04688	Benzoic acid	65-85-0	850	U	850	2,500		5
04688	Benzyl alcohol	100-51-6	850	U	850	2,500		5
04688	4-Bromophenyl-phenylether	101-55-3	85	U	85	850		5
04688	Carbazole	86-74-8	85	U	85	850		5
04688	4-Chloro-3-methylphenol	59-50-7	170	U	170	850		5
04688	4-Chloroaniline	106-47-8	340	U	340	850		5
04688	bis(2-Chloroethoxy)methane	111-91-1	85	U	85	850		5
04688	bis(2-Chloroethyl)ether	111-44-4	85	U	85	850		5
04688	bis(2-Chloroisopropyl)ether	39638-32-9	85	U	85	850		5
04688	2-Chloronaphthalene	91-58-7	85	U	85	850		5
04688	2-Chlorophenol	95-57-8	85	U	85	850		5
04688	4-Chlorophenyl-phenylether	7005-72-3	170	U	170	850		5
04688	Dibenzofuran	132-64-9	85	U	85	850		5
04688	1,2-Dichlorobenzene	95-50-1	85	U	85	850		5
04688	1,3-Dichlorobenzene	541-73-1	85	U	85	850		5
04688	1,4-Dichlorobenzene	106-46-7	85	U	85	850		5
04688	3,3'-Dichlorobenzidine	91-94-1	510	U	510	1,700		5
04688	2,4-Dichlorophenol	120-83-2	85	U	85	850		5
04688	2,4-Dimethylphenol	105-67-9	170	U	170	850		5
04688	3,5-Dimethylphenol	108-68-9	170	U	170	850		5
04688	4,6-Dinitro-2-methylphenol	534-52-1	850	U	850	2,500		5
04688	2,4-Dinitrophenol	51-28-5	1,700	U	1,700	5,100		5
04688	2,4-Dinitrotoluene	121-14-2	170	U	170	850		5
04688	2,6-Dinitrotoluene	606-20-2	85	U	85	850		5
04688	1,2-Diphenylhydrazine	122-66-7	85	U	85	850		5
04688	Fluoranthene	206-44-0	970		85	850		5
04688	Hexachlorobenzene	118-74-1	85	U	85	850		5
04688	Hexachlorobutadiene	87-68-3	340	U	340	850		5
04688	Hexachlorocyclopentadiene	77-47-4	850	U	850	2,500		5
04688	Hexachloroethane	67-72-1	85	U	85	850		5
04688	Indeno(1,2,3-cd)pyrene	193-39-5	250	J	85	850		5
04688	Isophorone	78-59-1	85	U	85	850		5
04688	2-Methylphenol	95-48-7	170	U	170	850		5
04688	4-Methylphenol	106-44-5	170	U	170	850		5
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	85	U	85	850		5
04688	3-Nitroaniline	99-09-2	170	U	170	850		5
04688	4-Nitroaniline	100-01-6	340	U	340	850		5
04688	Nitrobenzene	98-95-3	85	U	85	850		5
04688	2-Nitrophenol	88-75-5	85	U	85	850		5

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Sample Description: SL-136-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA7-SS-0.0-0.5

LLI Sample # SW 6414167
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:35

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4819 SDG#: DE248-19*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4-Nitrophenol	100-02-7	850	U	850	2,500		5
04688	N-Nitroso-di-n-propylamine	621-64-7	85	U	85	850		5
04688	N-Nitrosodiphenylamine	86-30-6	85	U	85	850		5
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	850	U	850	2,500		5
04688	Phenanthrene	85-01-8	580	J	85	850		5
04688	Phenol	108-95-2	85	U	85	850		5
04688	Tetralin	119-64-2	850	U	850	850		5
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	85	U	85	850		5
04688	2,4,5-Trichlorophenol	95-95-4	170	U	170	850		5
04688	2,4,6-Trichlorophenol	88-06-2	170	U	170	850		5
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	31		3.4	8.4		5
10138	Acenaphthylene	208-96-8	4.2	J	1.7	8.4		5
10138	Benzo(a)anthracene	56-55-3	400		3.4	8.4		5
10138	Benzo(a)pyrene	50-32-8	400		3.4	8.4		5
10138	Benzo(b)fluoranthene	205-99-2	720		3.4	8.4		5
10138	Benzo(k)fluoranthene	207-08-9	310		3.4	8.4		5
10138	Butylbenzylphthalate	85-68-7	35	J	30	91		5
10138	Di-n-butylphthalate	84-74-2	30	U	30	91		5
10138	Chrysene	218-01-9	510		1.7	8.4		5
10138	Dibenz(a,h)anthracene	53-70-3	44		3.4	8.4		5
10138	Diethylphthalate	84-66-2	30	U	30	91		5
10138	Dimethylphthalate	131-11-3	30	U	30	91		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	540		30	91		5
10138	Fluorene	86-73-7	26		3.4	8.4		5
10138	1-Methylnaphthalene	90-12-0	3.6	J	3.4	8.4		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.4		5
10138	Naphthalene	91-20-3	7.3	J	3.4	8.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.4		5
10138	Di-n-octylphthalate	117-84-0	30	U	30	91		5
10138	Pyrene	129-00-0	950		3.4	8.4		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-136-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-136-SA7-SS-0.0-0.5

LLI Sample # SW 6414167
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:35

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4819 SDG#: DE248-19*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	2.3		0.63	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	85	U	85	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

Reporting limits were raised due to interference from the sample matrix.
The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1

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Sample Description: SL-136-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-136-SA7-SS-0.0-0.5

LLI Sample # SW 6414167
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
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E4819 SDG#: DE248-19*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.33	U	0.33	0.84		5
01363	Alpha BHC	319-84-6	0.17	U	0.17	0.84		5
01363	Beta BHC	319-85-7	0.30	U	0.30	0.84		5
01363	Gamma BHC - Lindane	58-89-9	0.17	U	0.17	0.84		5
01363	Chlordane	57-74-9	31		4.0	17		5
01363	p,p-DDD	72-54-8	0.33	U	0.33	1.7		5
01363	p,p-DDE	72-55-9	0.33	U	0.33	1.7		5
01363	p,p-DDT	50-29-3	1.1	U	1.1	1.7		5
01363	Delta BHC	319-86-8	0.18	U	0.18	0.84		5
01363	Dieldrin	60-57-1	0.33	U	0.33	1.7		5
01363	Endosulfan I	959-98-8	0.22	U	0.22	0.84		5
01363	Endosulfan II	33213-65-9	0.81	U	0.81	1.7		5
01363	Endosulfan Sulfate	1031-07-8	0.33	U	0.33	1.7		5
01363	Endrin	72-20-8	0.40	U	0.40	1.7		5
01363	Endrin Aldehyde	7421-93-4	0.33	U	0.33	1.7		5
01363	Endrin Ketone	53494-70-5	0.33	U	0.33	1.7		5
01363	Heptachlor	76-44-8	0.30	U	0.30	0.84		5
01363	Heptachlor Epoxide	1024-57-3	0.24	U	0.24	0.84		5
01363	Methoxychlor	72-43-5	2.2	U	2.2	8.4		5
01363	Mirex	2385-85-5	1.5	U	1.5	1.7		5
01363	Toxaphene	8001-35-2	52	U	52	52		5

The LCS recovery is outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards.
The following analyte is accepted based on this allowance: heptachlor epoxide

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	11		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.56	J	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1
10225	PCB-1260	11096-82-5	3.8		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

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Sample Description: **SL-136-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-136-SA7-SS-0.0-0.5

LLI Sample # SW 6414167
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:35

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4819 SDG#: DE248-19*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	440	J	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	10	U	10	30		25
10199	EFH (C15-C20)	n.a.	14	J	10	30		25
10199	EFH (C21-C30)	n.a.	140		10	30		25
10199	EFH (C30 - C40)	n.a.	440		10	30		25
10199	EFH (C8-C11)	n.a.	10	U	10	30		25
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,300		5.96	19.7		1
07914	Boron	7440-42-8	0.355	U	0.355	4.93		1
01650	Calcium	7440-70-2	6,640		2.46	19.7		1
01654	Iron	7439-89-6	23,300		2.57	19.7		1
01656	Lithium	7439-93-2	26.0		0.61	2.0		1
01657	Magnesium	7439-95-4	5,110		0.434	9.86		1
06958	Manganese	7439-96-5	291		0.0355	0.493		1
10145	Phosphorus	7723-14-0	400		0.345	9.86		1
01662	Potassium	7440-09-7	3,250		11.1	49.3		1
01667	Sodium	7440-23-5	76.2	J	5.86	98.6		1
07968	Strontium	7440-24-6	21.0		0.0246	0.493		1
06969	Tin	7440-31-5	2.94	J	0.315	9.86		1
06970	Titanium	7440-32-6	1,210		0.0700	0.986		1
10146	Zirconium	7440-67-7	3.29	J	0.453	4.93		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.260		0.0751	0.203		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.37		0.0812	0.406		2
06126	Barium	7440-39-3	124		0.108	0.406		2

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Sample Description: **SL-136-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-136-SA7-SS-0.0-0.5

LLI Sample # SW 6414167
LLI Group # 1267605
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:35

Submitted: 09/21/2011 09:00
Reported: 10/27/2011 13:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4819 SDG#: DE248-19*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.660		0.0162	0.102		2
06128	Cadmium	7440-43-9	0.516		0.0447	0.102		2
06131	Chromium	7440-47-3	26.2		0.122	0.406		2
06132	Cobalt	7440-48-4	8.33		0.0203	0.102		2
06133	Copper	7440-50-8	14.7		0.0812	0.406		2
06135	Lead	7439-92-1	22.8		0.0104	0.203		2
06138	Molybdenum	7439-98-7	0.571		0.0508	0.102		2
06139	Nickel	7440-02-0	17.8		0.102	0.406		2
06141	Selenium	7782-49-2	0.133	J	0.0589	0.406		2
06142	Silver	7440-22-4	0.0659	J	0.0144	0.102		2
06145	Thallium	7440-28-0	0.341		0.0305	0.102		2
06148	Vanadium	7440-62-2	47.7		0.0223	0.102		2
06149	Zinc	7440-66-6	193		1.42	7.61		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0366	J	0.0068	0.0966		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.5		0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.3		0.82	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.04		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.5		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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SL-136-SA7-SS-0.0-0.5

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E4819 SDG#: DE248-19*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11272SLB026	10/03/2011 19:29	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11269SLA026	10/02/2011 22:56	Linda M Hartenstine	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267SLF026	10/05/2011 21:47	Gregory J Drahovsky	5
11630	NDMA Soil Microwave	SW-846 3546	1	11272SLB026	09/30/2011 08:30	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11267SLF026	09/28/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11269SLA026	09/28/2011 19:00	Sally L Appleyard	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112690016A	10/04/2011 19:45	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670008A	09/28/2011 22:07	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112670049A	09/30/2011 15:47	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112670060A	10/04/2011 05:19	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670050A	09/29/2011 07:39	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112670060A	09/28/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670050A	09/28/2011 03:15	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112670049A	09/28/2011 02:00	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670008A	09/26/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112690016A	09/29/2011 14:30	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112690024A	09/27/2011 05:29	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112720042A	09/30/2011 01:43	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112670044A	09/30/2011 06:04	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112680002A	09/29/2011 13:42	Heather E Williams	25
11238	EFH Extraction - Soils	SW-846 3550B	1	112680002A	09/26/2011 11:00	Roza S Goslawska	1
10303	Terphenyls soil prep	SW-846 3550B	1	112670044A	09/27/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112690024A	09/26/2011 20:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112720042A	09/29/2011 16:45	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112655708002	09/30/2011 19:38	John P Hook	1
07914	Boron	SW-846 6010B	1	112655708002	09/30/2011 19:38	John P Hook	1
01650	Calcium	SW-846 6010B	1	112655708002	09/30/2011 19:38	John P Hook	1
01654	Iron	SW-846 6010B	1	112655708002	09/30/2011 19:38	John P Hook	1
01656	Lithium	SW-846 6010B	1	112655708002	09/30/2011 19:38	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112655708002	09/30/2011 19:38	John P Hook	1
06958	Manganese	SW-846 6010B	1	112655708002	09/30/2011 19:38	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112655708002	09/30/2011 19:38	John P Hook	1
01662	Potassium	SW-846 6010B	1	112655708002	09/30/2011 19:38	John P Hook	1
01667	Sodium	SW-846 6010B	1	112655708002	09/30/2011 19:38	John P Hook	1
07968	Strontium	SW-846 6010B	1	112655708002	09/30/2011 19:38	John P Hook	1
06969	Tin	SW-846 6010B	1	112655708002	09/30/2011 19:38	John P Hook	1

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E4819 SDG#: DE248-19*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112765708002	10/04/2011 08:20	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112655708002	09/30/2011 19:38	John P Hook	1
06124	Antimony	SW-846 6020	1	112651026001A	09/23/2011 09:44	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112651026001A	09/23/2011 09:44	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112651026001D	09/23/2011 09:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112651026001A	09/23/2011 09:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112651026001A	09/23/2011 09:44	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112651026001A	09/23/2011 09:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112651026001A	09/23/2011 09:44	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112651026001A	09/23/2011 09:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112651026001A	09/23/2011 09:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112651026001C	09/23/2011 09:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112651026001A	09/23/2011 09:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112651026001B	09/23/2011 09:44	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112651026001A	09/23/2011 09:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112651026001A	09/23/2011 09:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112651026001A	09/23/2011 09:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112651026001A	09/23/2011 15:05	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	112655711001	09/23/2011 07:27	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112655708002	09/22/2011 21:29	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112765708002	10/03/2011 22:54	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112651026001	09/22/2011 21:32	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112655711001	09/23/2011 00:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11271621201B	10/03/2011 12:19	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11271621201B	09/29/2011 09:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11266621202B	10/04/2011 23:23	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243201A	10/05/2011 19:39	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11276102201A	10/03/2011 19:52	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11271621201B	09/28/2011 07:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266621202B	09/23/2011 06:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11276102201A	10/03/2011 15:00	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11272039401B	09/29/2011 10:30	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243201A	10/03/2011 10:40	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11284162401A	10/11/2011 18:27	Scott W Freisher	1

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267605
Reported: 10/27/11 at 01:53 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11267SLF026	Sample number(s): 6414144-6414155,6414159-6414167									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	96		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	97		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	101		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	102		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	99		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	113		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	100		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	102		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	101		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	118		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	99		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	107		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	109		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	107		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	98		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	108		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	103		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	106		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	95		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	98		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	99		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	101		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	100		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	93		72-119		
Batch number: 11269SLA026	Sample number(s): 6414144-6414155,6414159-6414167									
Acenaphthene	17	U	17.	170	ug/kg	106		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	115		75-122		
Aniline	170 U		170.	500	ug/kg	81		20-115		
Anthracene	17	U	17.	170	ug/kg	112		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	55		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	109		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	115		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	115		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	114		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	113		67-125		
Benzoic acid	170 U		170.	500	ug/kg	68		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	103		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	107		73-114		
Butylbenzylphthalate	17	U	17.	170	ug/kg	108		75-115		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267605
Reported: 10/27/11 at 01:53 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Di-n-butylphthalate	17	U	17.	170	ug/kg	109		79-112		
Carbazole	17	U	17.	170	ug/kg	110		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	110		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	60		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	101		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	97		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	94		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	81		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	108		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	102		74-115		
Chrysene	17	U	17.	170	ug/kg	106		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	114		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	105		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	96		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	97		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	96		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	62		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	110		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	106		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	110		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	110		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	107		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	46		46-120		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	21		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	108		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	113		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	107		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	109		75-117		
Fluoranthene	17	U	17.	170	ug/kg	115		78-116		
Fluorene	17	U	17.	170	ug/kg	110		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	102		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	99		65-117		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	100		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	93		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	116		64-119		
Isophorone	17	U	17.	170	ug/kg	103		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	101		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	104		69-109		
2-Methylphenol	33	U	33.	170	ug/kg	109		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	103		66-117		
Naphthalene	17	U	17.	170	ug/kg	101		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	106		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	99		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	83		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	102		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	114*		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	93		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	91		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	87		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	113		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	105		62-137		
Pentachlorophenol	170	U	170.	500	ug/kg	90		51-117		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267605
Reported: 10/27/11 at 01:53 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Phenanthrene	17	U	17.	170	ug/kg	109		77-113		
Phenol	17	U	17.	170	ug/kg	105		58-112		
Pyrene	17	U	17.	170	ug/kg	107		75-115		
Tetralin	170	U	170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	102		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	107		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	111		78-111		
Batch number: 11269SLB026	Sample number(s): 6414149-6414155,6414159-6414160,6414163-6414166									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	99		70-130		
Batch number: 11272SLB026	Sample number(s): 6414167									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	110		70-130		
Batch number: 112690016A	Sample number(s): 6414150-6414155,6414157-6414159,6414163-6414164,6414166-6414167									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	99		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	104		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	79	87	54-134	10	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	79	87	54-134	10	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	109		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	101		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	107		80-120		
HMX	100	U	100.	300	ug/kg	93		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	105		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	85		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	103		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	107		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	100		80-120		
PETN	800	U	800.	2,400	ug/kg	101		80-120		
RDX	50	U	50.	120	ug/kg	105		75-131		
Tetryl	61	U	61.	120	ug/kg	104		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	105		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	108		80-120		
Batch number: 112670008A	Sample number(s): 6414149-6414155,6414157-6414160,6414163-6414167									
20a Formaldehyde 8315A	600	U	600.	1,500	ug/kg	103		80-126		
Batch number: 112670049A	Sample number(s): 6414144-6414155,6414157-6414160,6414162-6414167									
2,4-D	1.2	U	1.2	3.6	ug/kg	95		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	62		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	74		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	95		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	7*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	102		62-170		
MCPA	76	U	76.	250	ug/kg	67		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	62		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	88		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	81		68-114		
Batch number: 112690003A	Sample number(s): 6414160,6414165									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	97		85-115		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267605
Reported: 10/27/11 at 01:53 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 112670050A	Sample number(s): 6414144-6414155,6414157-6414167									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	82	79	36-106	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	94		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	105		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112670060A	Sample number(s): 6414144-6414155,6414157-6414160,6414162-6414167									
Aldrin	0.066	U	0.066	0.17	ug/kg	48		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	47		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	75		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	53		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	79		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	75		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	77		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	72		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	69		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	50		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	66		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	88		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	70		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	59		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	82		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	50		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	64*		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	83		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 112650034A	Sample number(s): 6414146,6414160,6414165									
Ethanol	100	U	100.	500	ug/kg	109		71-129		
Isopropanol	100	U	100.	500	ug/kg	106		75-125		
Methanol	100	U	100.	500	ug/kg	114		68-129		
Batch number: 112690024A	Sample number(s): 6414144-6414145,6414147-6414155,6414157-6414159,6414162-6414164,6414166-6414167									
Ethanol	100	U	100.	500	ug/kg	83		71-129		
Isopropanol	100	U	100.	500	ug/kg	85		75-125		
Methanol	100	U	100.	500	ug/kg	86		68-129		
Batch number: 112720042A	Sample number(s): 6414144-6414155,6414159-6414160,6414162-6414167									
Diethylene glycol	5.0	U	5.0	10	mg/kg	95		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	98		53-149		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267605
Reported: 10/27/11 at 01:53 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Propylene glycol	5.0	U	5.0	10	mg/kg	89		67-131		
Batch number: 112670044A	Sample number(s): 6414144-6414155,6414157-6414160,6414162-6414167									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	93		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	94		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		69-109		
Batch number: 112680002A	Sample number(s): 6414144-6414155,6414157-6414160,6414162-6414167									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	89		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	96		75-128		
EFH (C21-C30)	0.68	J	0.40	1.2	mg/kg	96		64-134		
EFH (C30 - C40)	2.0		0.40	1.2	mg/kg	94		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	71		49-107		
Batch number: 112651026001A	Sample number(s): 6414144-6414156,6414159-6414167									
Antimony	0.0740	U	0.0740	0.200	mg/kg	88		10-224		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	106		78-122		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	103		80-120		
Cadmium	0.0440	U	0.0440	0.100	mg/kg	103		81-119		
Chromium	0.120	U	0.120	0.400	mg/kg	112		77-123		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	103		80-119		
Copper	0.0800	U	0.0800	0.400	mg/kg	108		78-122		
Lead	0.0322	J	0.0102	0.200	mg/kg	103		77-123		
Nickel	0.100	U	0.100	0.400	mg/kg	106		80-120		
Silver	0.0142	U	0.0142	0.100	mg/kg	104		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	105		75-124		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	113		76-124		
Zinc	0.560	U	0.560	3.00	mg/kg	103		79-121		
Batch number: 112651026001B	Sample number(s): 6414144-6414156,6414159-6414167									
Selenium	0.0580	U	0.0580	0.400	mg/kg	108		77-123		
Batch number: 112651026001C	Sample number(s): 6414144-6414156,6414159-6414167									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	106		76-123		
Batch number: 112651026001D	Sample number(s): 6414144-6414156,6414159-6414167									
Barium	0.106	U	0.106	0.400	mg/kg	103		80-120		
Batch number: 112655708002	Sample number(s): 6414144-6414156,6414159-6414167									
Aluminum	6.05	U	6.05	20.0	mg/kg	132		42-158		
Boron	0.360	U	0.360	5.00	mg/kg	102		66-134		
Calcium	5.77	J	2.50	20.0	mg/kg	105		79-121		
Iron	2.84	J	2.61	20.0	mg/kg	138		51-149		
Lithium	0.62	U	0.62	2.0	mg/kg	105		80-120		
Magnesium	0.440	U	0.440	10.0	mg/kg	116		64-136		
Manganese	0.0360	U	0.0360	0.500	mg/kg	103		78-122		
Phosphorus	1.18	J	0.350	10.0	mg/kg	106		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	110		69-131		
Sodium	5.95	U	5.95	100	mg/kg	109		71-129		
Strontium	0.0340	J	0.0250	0.500	mg/kg	102		81-119		
Tin	1.51	J	0.320	10.0	mg/kg	98		74-126		
Zirconium	0.460	U	0.460	5.00	mg/kg	105		80-120		
Batch number: 112655711001	Sample number(s): 6414144-6414156,6414159-6414167									
Mercury	0.0069	U	0.0069	0.0974	mg/kg	104		72-128		
Batch number: 112765708002	Sample number(s): 6414144-6414156,6414159-6414167									
Titanium	0.0710	U	0.0710	1.00	mg/kg	87		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267605
Reported: 10/27/11 at 01:53 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11266621202A	Sample number(s): 6414144-6414154,6414156									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	107		85-115		
Batch number: 11266621202B	Sample number(s): 6414159-6414167									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	107		85-115		
Batch number: 11271621201A	Sample number(s): 6414144-6414154,6414156									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	97		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	98		90-110		
Batch number: 11271621201B	Sample number(s): 6414159-6414167									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	97		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	98		90-110		
Batch number: 11275102201A	Sample number(s): 6414144-6414148,6414150-6414154,6414156,6414159									
16a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	87		80-120		
Batch number: 11276102201A	Sample number(s): 6414162-6414164,6414166-6414167									
16a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	109		80-120		
Batch number: 11276243201A	Sample number(s): 6414144-6414154,6414156,6414159-6414167									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	84		80-120		
Batch number: 11272039401A	Sample number(s): 6414144-6414152									
17a pH by 9045C						100		95-105		
Batch number: 11272039401B	Sample number(s): 6414153,6414156,6414159-6414167									
17a pH by 9045C						100		95-105		
Batch number: 11270162402A	Sample number(s): 6414144-6414149,6414160-6414162,6414165									
Moisture Content by 160.3						100		80-120		
Batch number: 11284162401A	Sample number(s): 6414150-6414157,6414159,6414163-6414164,6414166-6414167									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11267SLF026	Sample number(s): 6414144-6414155,6414159-6414167 UNSPK: 6414153								
Acenaphthene	105	217*	63-105	54*	30				
Acenaphthylene	98	84	67-114	14	30				
Anthracene	73	417*	73-115	93*	30				
Benzo(a)anthracene	27 (2)	720 (2)	59-128	73*	30				
Benzo(a)pyrene	67 (2)	767 (2)	58-142	71*	30				
Benzo(b)fluoranthene	342 (2)	1586 (2)	54-163	63*	30				
Benzo(g,h,i)perylene	28*	174*	33-141	47*	30				

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Quality Control Summary

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(k)fluoranthene	-40 (2)	396 (2)	57-153	65*	30				
Butylbenzylphthalate	144	107	57-173	29	30				
Di-n-butylphthalate	157*	114	65-148	32*	30				
Chrysene	47 (2)	662 (2)	67-123	63*	30				
Dibenz(a,h)anthracene	38	83	22-133	38*	30				
Diethylphthalate	121	93	70-136	26	30				
Dimethylphthalate	115	0*	74-118	200*	30				
Bis(2-Ethylhexyl)phthalate	1645*	181*	39-167	160*	30				
Fluoranthene	-93 (2)	1851 (2)	51-149	75*	30				
Fluorene	102	215*	66-122	55*	30				
Indeno(1,2,3-cd)pyrene	30	200*	21-143	54*	30				
1-Methylnaphthalene	106	98	72-123	8	30				
2-Methylnaphthalene	105*	93	64-103	12	30				
Naphthalene	94	96	61-102	2	30				
N-Nitrosodimethylamine	99	74	48-113	29	30				
Di-n-octylphthalate	219*	213*	40-192	3	30				
Phenanthrene	-4 (2)	1376 (2)	62-122	88*	30				
Pyrene	98 (2)	1910 (2)	51-131	84*	30				

Batch number: 11269SLA026 Sample number(s): 6414144-6414155,6414159-6414167 UNSPK: 6414153

Acenaphthene	117*	83	75-115	34*	30				
Acenaphthylene	96	88	81-110	9	30				
Aniline	0*	50	18-116	200*	30				
Anthracene	153*	87	75-115	55*	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	196*	73	65-122	82*	30				
Benzo(a)pyrene	176*	76	57-126	72*	30				
Benzo(b)fluoranthene	203*	82	59-125	75*	30				
Benzo(g,h,i)perylene	155*	82	59-127	57*	30				
Benzo(k)fluoranthene	140*	70	56-132	61*	30				
Benzoic acid	0*	0*	10-173	0	30				
Benzyl alcohol	83	82	67-115	1	30				
4-Bromophenyl-phenylether	99	84	67-129	16	30				
Butylbenzylphthalate	92	88	73-134	4	30				
Di-n-butylphthalate	91	84	67-123	7	30				
Carbazole	129*	77	64-120	48*	30				
4-Chloro-3-methylphenol	88	79	62-122	10	30				
4-Chloroaniline	56	64	13-107	13	30				
bis(2-Chloroethoxy)methane	83	79	75-104	5	30				
bis(2-Chloroethyl)ether	83	82	60-116	1	30				
bis(2-Chloroisopropyl)ether	82	82	55-142	0	30				
2-Chloronaphthalene	80	70	50-141	13	30				
2-Chlorophenol	90	88	73-121	2	30				
4-Chlorophenyl-phenylether	85	75*	80-109	12	30				
Chrysene	185*	70	62-128	79*	30				
Dibenz(a,h)anthracene	126*	92	65-125	32*	30				
Dibenzofuran	103	81	71-112	24	30				
1,2-Dichlorobenzene	85	76	66-108	11	30				
1,3-Dichlorobenzene	86	77	63-109	12	30				
1,4-Dichlorobenzene	84	77	58-108	9	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267605
Reported: 10/27/11 at 01:53 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
3,3'-Dichlorobenzidine	61	68	28-109	11	30				
2,4-Dichlorophenol	92	83	66-123	11	30				
Diethylphthalate	86	82	66-118	4	30				
2,4-Dimethylphenol	92	84	68-118	10	30				
3,5-Dimethylphenol	89	79	71-127	13	30				
Dimethylphthalate	86	86	64-118	0	30				
4,6-Dinitro-2-methylphenol	0*	0*	11-126	0	30				
2,4-Dinitrophenol	0*	0*	20-143	0	30				
2,4-Dinitrotoluene	79	74	56-129	7	30				
2,6-Dinitrotoluene	89	85	69-123	5	30				
1,2-Diphenylhydrazine	94	84	71-129	11	30				
bis(2-Ethylhexyl)phthalate	96	85	63-122	12	30				
Fluoranthene	465*	74	73-112	125*	30				
Fluorene	117	85	63-121	32*	30				
Hexachlorobenzene	92	71*	77-114	26	30				
Hexachlorobutadiene	85	72	62-120	17	30				
Hexachlorocyclopentadiene	37	29	10-153	24	30				
Hexachloroethane	88	76	57-109	15	30				
Indeno(1,2,3-cd)pyrene	155*	84	61-126	55*	30				
Isophorone	86	81	73-102	6	30				
1-Methylnaphthalene	87	76	64-122	15	30				
2-Methylnaphthalene	90	84	76-114	7	30				
2-Methylphenol	87	81	75-111	7	30				
4-Methylphenol	85	80	59-123	6	30				
Naphthalene	93	81	72-116	14	30				
2-Nitroaniline	90	86	67-125	4	30				
3-Nitroaniline	82	77	59-122	6	30				
4-Nitroaniline	66	68	41-109	3	30				
Nitrobenzene	89	81	57-125	9	30				
2-Nitrophenol	94	85	56-127	10	30				
4-Nitrophenol	72	68	37-129	5	30				
N-Nitroso-di-n-propylamine	80	72	60-116	11	30				
N-Nitrosodimethylamine	73	72	47-116	1	30				
N-Nitrosodiphenylamine	99	90	71-122	9	30				
Di-n-octylphthalate	118	113	56-126	5	30				
Pentachlorophenol	50	0*	28-127	200*	30				
Phenanthrene	430*	74	65-125	126*	30				
Phenol	87	78	58-126	11	30				
Pyrene	366*	68*	74-126	118*	30				
1,2,4-Trichlorobenzene	90	80	72-115	12	30				
2,4,5-Trichlorophenol	87	76	58-129	13	30				
2,4,6-Trichlorophenol	95	84	56-134	13	30				
Batch number: 11269SLB026	Sample number(s): 6414149-6414155,6414159-6414160,6414163-6414166 UNSPK: 6414153								
N-Nitrosodimethylamine	99	109	70-130	9	30				
Batch number: 11272SLB026	Sample number(s): 6414167 UNSPK: P415790								
N-Nitrosodimethylamine	113	98	70-130	16	30				
Batch number: 112690016A	Sample number(s): 6414150-6414155,6414157-6414159,6414163-6414164,6414166-6414167 UNSPK: 6414153								
4-Amino-2,6-Dinitrotoluene	106	107	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	105	106	80-137	1	50				

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Quality Control Summary

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Reported: 10/27/11 at 01:53 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,3-Dinitrobenzene	109	111	38-166	2	50				
2,4-Dinitrotoluene	100	101	80-131	1	50				
2,6-Dinitrotoluene	105	108	80-127	3	50				
HMX	92	93	63-128	1	50				
Nitrobenzene	99	110	80-125	10	50				
Nitroglycerin	98	100	80-120	2	50				
2-Nitrotoluene	101	103	80-122	2	50				
3-Nitrotoluene	108	108	72-119	0	50				
4-Nitrotoluene	100	102	80-125	2	50				
PETN	106	108	80-121	2	50				
RDX	92	91	75-129	1	50				
Tetryl	96	78	55-174	21	50				
1,3,5-Trinitrobenzene	100	100	82-126	1	50				
2,4,6-Trinitrotoluene	106	107	82-130	1	50				
Batch number: 112670008A	Sample number(s): 6414149-6414155,6414157-6414160,6414163-6414167 UNSPK: 6414153								
20a Formaldehyde 8315A	96	98	80-120	2	50				
Batch number: 112670049A	Sample number(s): 6414144-6414155,6414157-6414160,6414162-6414167 UNSPK: 6414153								
2,4-D	81	64	17-180	24	35				
Dalapon	54	46	10-125	15	50				
2,4-DB	0*	40	10-201	85*	50				
Dicamba	82	69	10-190	18	50				
Dinoseb	20	20	10-46	2	35				
2,4-DP (Dichlorprop)	72	74	33-178	3	50				
MCPA	48	32	10-213	28	50				
MCPP (Mecoprop)	49	55	10-184	11	50				
2,4,5-T	63	31	10-156	44*	35				
2,4,5-TP	51	54	24-141	7	35				
Batch number: 112690003A	Sample number(s): 6414160,6414165 UNSPK: P415779								
6a Perchlorate EPA 6850	106	110	80-120	4	20				
Batch number: 112670050A	Sample number(s): 6414144-6414155,6414157-6414167 UNSPK: 6414153								
PCB-1016	57	56	29-146	2	50				
PCB-1260	47	44	39-149	5	50				
Batch number: 112670060A	Sample number(s): 6414144-6414155,6414157-6414160,6414162-6414167 UNSPK: 6414153								
Aldrin	0*	0*	16-126	0	50				
Alpha BHC	85	0*	10-129	200*	50				
Beta BHC	0*	0*	14-147	0	50				
Gamma BHC - Lindane	0*	0*	10-140	0	50				
p,p-DDD	267*	266*	16-163	1	50				
p,p-DDE	122	138	18-161	13	50				
p,p-DDT	134	70	10-176	62*	50				
Delta BHC	0*	72	23-140	200*	50				
Dieldrin	0*	0*	19-154	0	50				
Endosulfan I	0*	0*	16-137	0	50				
Endosulfan II	177*	0*	28-154	200*	50				
Endosulfan Sulfate	0*	0*	21-160	0	50				
Endrin	0*	61	11-149	200*	50				
Endrin Aldehyde	262*	215*	10-148	20	35				
Endrin Ketone	0*	0*	22-165	0	50				

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Heptachlor	0*	0*	13-126	0	50				
Heptachlor Epoxide	100	76	13-157	28	50				
Methoxychlor	186*	0*	32-147	200*	50				
Batch number: 112650034A	Sample number(s): 6414146,6414160,6414165 UNSPK: P414153								
Ethanol	66	51	48-130	26*	20				
Isopropanol	99	87	12-149	13	20				
Methanol	107	83	43-138	25*	20				
Batch number: 112690024A	Sample number(s): 6414144-6414145,6414147-6414155,6414157-6414159,6414162-6414164,6414166-6414167 UNSPK: 6414153								
Ethanol	74	77	48-130	4	20				
Isopropanol	75	79	12-149	4	20				
Methanol	83	83	43-138	1	20				
Batch number: 112720042A	Sample number(s): 6414144-6414155,6414159-6414160,6414162-6414167 UNSPK: 6414153								
Diethylene glycol	0*	0*	59-109	0	20				
Ethylene glycol	19*	19*	63-107	0	20				
Propylene glycol	31*	31*	63-107	1	20				
Batch number: 112670044A	Sample number(s): 6414144-6414155,6414157-6414160,6414162-6414167 UNSPK: 6414153								
m-Terphenyl	92	0*	75-125	200*	20				
o-Terphenyl	95	0*	75-125	200*	20				
p-Terphenyl	91	0*	75-125	200*	20				
Batch number: 112680002A	Sample number(s): 6414144-6414155,6414157-6414160,6414162-6414167 UNSPK: 6414153								
EFH (C12-C14)	0*	0*	49-123	0	20				
EFH (C15-C20)	554 (2)	474 (2)	49-123	2	20				
EFH (C21-C30)	2854 (2)	3079 (2)	49-123	2	20				
EFH (C30 - C40)	1483 (2)	9342 (2)	49-123	17	20				
EFH (C8-C11)	0*	0*	49-123	0	20				
Batch number: 112651026001A	Sample number(s): 6414144-6414156,6414159-6414167 UNSPK: 6414153 BKG: 6414153								
Antimony	60*	42*	75-125	24*	20	0.279	0.344	21* (1)	20
Arsenic	222*	113	75-125	25*	20	5.30	6.16	15	20
Beryllium	142*	115	75-125	14	20	0.616	0.706	14	20
Cadmium	166*	129*	75-125	21*	20	0.345	0.412	18 (1)	20
Chromium	165*	118	75-125	13	20	23.2	25.2	8	20
Cobalt	148*	121	75-125	19	20	8.08	8.65	7	20
Copper	178*	127*	75-125	19	20	12.8	14.2	10	20
Lead	300 (2)	146 (2)	75-125	21*	20	16.0	18.7	15	20
Nickel	190*	130*	75-125	18	20	17.1	19.7	15	20
Silver	154*	129*	75-125	19	20	0.0607 J	0.0616 J	1 (1)	20
Thallium	151*	110	75-125	20	20	0.341	0.334	2 (1)	20
Vanadium	209 (2)	106 (2)	75-125	17	20	44.9	49.1	9	20
Zinc	478 (2)	159 (2)	75-125	20	20	130	156	18	20
Batch number: 112651026001B	Sample number(s): 6414144-6414156,6414159-6414167 UNSPK: 6414153 BKG: 6414153								
Selenium	140*	117	75-125	18	20	0.125 J	0.150 J	18 (1)	20
Batch number: 112651026001C	Sample number(s): 6414144-6414156,6414159-6414167 UNSPK: 6414153 BKG: 6414153								

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Quality Control Summary

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Molybdenum	156*	128*	75-125	20	20	0.459	0.508	10 (1)	20
Batch number: 112651026001D	Sample number(s): 6414144-6414156,6414159-6414167 UNSPK: 6414153 BKG: 6414153								
Barium	364 (2)	92 (2)	75-125	21*	20	111	124	11	20
Batch number: 112655708002	Sample number(s): 6414144-6414156,6414159-6414167 UNSPK: 6414153 BKG: 6414153								
Aluminum	2700 (2)	1658 (2)	75-125	11	20	14,000	13,300	5	20
Boron	99	101	84-115	4	20	1.37 J	0.938 J	38* (1)	20
Calcium	292 (2)	-134 (2)	75-125	19	20	8,520	6,840	22*	20
Iron	2076 (2)	665 (2)	75-125	6	20	22,300	21,500	3	20
Lithium	101	102	82-114	2	20	24.9	24.2	3	20
Magnesium	469 (2)	307 (2)	75-125	5	20	4,940	4,810	3	20
Manganese	103 (2)	121 (2)	75-125	3	20	281	275	2	20
Phosphorus	118	118	75-125	0	20	385	363	6	20
Potassium	144*	137*	75-125	1	20	3,070	2,960	4	20
Sodium	97	99	75-125	4	20	101	90.7 J	11 (1)	20
Strontium	99	100	75-115	3	20	23.2	21.3	8	20
Tin	86	88	80-110	4	20	2.48 J	2.73 J	10 (1)	20
Zirconium	96	98	75-125	4	20	3.33 J	3.79 J	13 (1)	20
Batch number: 112655711001	Sample number(s): 6414144-6414156,6414159-6414167 UNSPK: 6414153 BKG: 6414153								
Mercury	97	96	65-135	2	20	0.0112 J	0.0119 J	6 (1)	20
Batch number: 112765708002	Sample number(s): 6414144-6414156,6414159-6414167 UNSPK: 6414153 BKG: 6414153								
Titanium	309 (2)	257 (2)	75-125	4	20	1,170	1,150	2	20
Batch number: 11266621202A	Sample number(s): 6414144-6414154,6414156 UNSPK: 6414153 BKG: 6414153								
7a Perchlorate EPA 314.0	107		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11266621202B	Sample number(s): 6414159-6414167 UNSPK: 6414159 BKG: 6414159								
7a Perchlorate EPA 314.0	114		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11271621201A	Sample number(s): 6414144-6414154,6414156 UNSPK: 6414153 BKG: 6414153								
11a Anions by 300.0 - Fluoride	81		80-120			3.1	3.8	18 (1)	20
11a Anions by 300.0 - Nitrate	98		80-120			1.3 J	1.4 J	11 (1)	20
Batch number: 11271621201B	Sample number(s): 6414159-6414167 UNSPK: 6414159 BKG: 6414159								
11a Anions by 300.0 - Fluoride	79*		80-120			0.80 U	0.80 U	0 (1)	20
11a Anions by 300.0 - Nitrate	93		80-120			1.7	2.0	17 (1)	20
Batch number: 11275102201A	Sample number(s): 6414144-6414148,6414150-6414154,6414156,6414159 UNSPK: 6414153 BKG: 6414153								
16a Cyanide by 9012B	97		75-125			0.19 U	0.19 U	0 (1)	20
Batch number: 11276102201A	Sample number(s): 6414162-6414164,6414166-6414167 UNSPK: 6414162 BKG: 6414162								
16a Cyanide by 9012B	99		75-125			0.18 U	0.17 U	0 (1)	20
Batch number: 11276243201A	Sample number(s): 6414144-6414154,6414156,6414159-6414167 UNSPK: 6414153 BKG: 6414153								
3a Cr VI by EPA 7199	83		75-125			0.37 J	0.37 J	2 (1)	20

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11272039401A	Sample number(s): 6414144-6414152 BKG: 6414144								
17a pH by 9045C						6.84	6.82	0	3
Batch number: 11272039401B	Sample number(s): 6414153,6414156,6414159-6414167 BKG: 6414153								
17a pH by 9045C						8.20	8.15	1	3
Batch number: 11270162402A	Sample number(s): 6414144-6414149,6414160-6414162,6414165 BKG: 6414146								
Moisture Content by 160.3						18.5	19.9	8	20
Batch number: 11284162401A	Sample number(s): 6414150-6414157,6414159,6414163-6414164,6414166-6414167 BKG: 6414153								
28a Moisture Content by 160.3						1.9	1.9	3 (1)	20
Moisture Content by 160.3						1.9	1.9	3 (1)	20
Moisture Content by 160.3						1.9	1.9	3 (1)	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11267SLF026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6414144	100	95	123
6414145	85	88	98
6414146	86	81	83
6414147	102	95	96
6414148	85	81	83
6414149	81	78	81
6414150	77	76	71
6414151	96	90	101
6414152	89	82	88
6414153	82	76	76
6414154	112	99	110
6414155	85	77	94
6414159	86	76	116
6414160	104	94	124
6414161	88	80	116
6414162	105	94	120
6414163	84	80	83
6414164	69	69	88
6414165	101	95	100
6414166	77	73	80
6414167	100	92	108
Blank	110	104	106
LCS	108	98	100
MS	112	99	110
MSD	85	77	94

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Surrogate Quality Control

Limits:	40-130	45-130	45-135			

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11269SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6414144	94	100	88	94	96	87
6414145	89	96	86	93	96	90
6414146	101	108	69	85	69	51
6414147	92	99	79	92	100	88
6414148	92	99	72	94	97	88
6414149	95	102	73	96	101	89
6414150	93	100	74	94	99	89
6414151	88	93	65	86	94	82
6414152	92	98	67	91	97	86
6414153	71	76	57	67	72	61
6414154	83	88	77	84	87	77
6414155	79	82	70	78	80	68
6414159	84	90	71	84	86	73
6414160	87	93	80	85	91	84
6414161	87	93	75	88	96	85
6414162	91	97	65	92	98	89
6414163	88	96	73	87	91	75
6414164	75	81	60	76	80	70
6414165	85	90	71	84	90	84
6414166	77	82	60	79	83	68
6414167	80	87	71	81	85	76
Blank	94	100	103	95	99	93
LCS	103	110	102	102	103	93
MS	83	88	77	84	87	77
MSD	79	82	70	78	80	68

Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 21a NDMA by 1625C
Batch number: 11269SLB026

	N-Nitrosodimethylamine-d6
6414149	173*
6414150	176*
6414151	185*
6414152	183*
6414153	185*
6414154	192*
6414155	178*
6414159	193*
6414160	184*
6414163	185*
6414164	183*
6414165	193*
6414166	182*
Blank	157*
LCS	170*
MS	192*
MSD	178*

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267605
Reported: 10/27/11 at 01:53 PM

Surrogate Quality Control

Limits: 50-150

Analysis Name: 21a NDMA by 1625C
Batch number: 11272SLB026

	N-Nitrosodimethylamine-d6
6414167	184*
Blank	159*
LCS	165*
MS	347*
MSD	351*

Limits: 50-150

Analysis Name: 20a Formaldehyde 8315A
Batch number: 112670008A

	Butyraldehyde
6414149	95
6414150	93
6414151	92
6414152	90
6414153	94
6414154	93
6414155	100
6414157	96
6414158	95
6414159	92
6414160	94
6414163	91
6414164	94
6414165	90
6414166	95
6414167	93
Blank	95
LCS	91
MS	93
MSD	100

Limits: 64-126

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 112670049A

	2,4-Dichlorophenylacetic acid
6414144	127
6414145	114
6414146	75
6414147	108
6414148	94
6414149	92
6414150	125
6414151	89
6414152	100

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267605
Reported: 10/27/11 at 01:53 PM

Surrogate Quality Control

6414153	86
6414154	92
6414155	81
6414157	113
6414158	95
6414159	93
6414160	142
6414162	80
6414163	95
6414164	78
6414165	89
6414166	49
6414167	84
Blank	86
LCS	87
MS	92
MSD	81
Limits:	36-156

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112670050A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6414144	105	105
6414145	23*	45
6414146	91	154*
6414147	93	73
6414148	104	89
6414149	106	83
6414150	105	84
6414151	102	83
6414152	102	102
6414153	68	64
6414154	81	74
6414155	75	71
6414157	64	64
6414158	95	68
6414159	62	53
6414160	104	86
6414161	105	83
6414162	103	102
6414163	78	69
6414164	83	97
6414165	108	88
6414166	73	71
6414167	81	85
Blank	105	114
LCS	103	113
LCSD	98	111
MS	81	74
MSD	75	71
Limits:	53-139	45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 112670060A

	Tetrachloro-m-xylene	Decachlorobiphenyl

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267605
Reported: 10/27/11 at 01:53 PM

Surrogate Quality Control

6414144	55	111
6414145	122	284*
6414146	56	47
6414147	44*	1183*
6414148	43*	86
6414149	61	80
6414150	58	89
6414151	60	124*
6414152	52	164*
6414153	43*	465*
6414154	41*	2818*
6414155	38*	191*
6414157	47*	422*
6414158	45*	114
6414159	32*	25
6414160	64	89
6414162	56	87
6414163	49*	494*
6414164	58	132*
6414165	57	80
6414166	42*	767*
6414167	47*	1405*
Blank	153*	172*
LCS	50	96
MS	41*	2818*
MSD	38*	191*
Limits:	50-130	20-120

Analysis Name: 15a Energetics by 8330A
Batch number: 112690016A

	2-Nitro-m-xylene
6414150	113
6414151	108
6414152	128
6414153	113
6414154	104
6414155	112
6414157	104
6414158	108
6414159	117
6414163	105
6414164	108
6414166	112
6414167	108
Blank	112
LCS	106
LCSD	102
MS	104
MSD	112
Limits:	80-146

Analysis Name: 18a Alcohols by 8015B
Batch number: 112650034A

	Acetone

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267605
Reported: 10/27/11 at 01:53 PM

Surrogate Quality Control

6414146	67
6414160	61
6414165	61
Blank	106
LCS	105
MS	105
MSD	85
Limits:	42-138

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112670044A

	n-Triacontane-d62
6414144	68
6414145	75
6414146	61
6414147	70
6414148	68
6414149	78
6414150	73
6414151	64
6414152	66
6414153	50
6414154	105
6414155	15*
6414157	18*
6414158	66
6414159	15*
6414160	67
6414162	70
6414163	82
6414164	339*
6414165	76
6414166	78
6414167	73
Blank	66
LCS	71
MS	105
MSD	15*
Limits:	19-152

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112680002A

	Chlorobenzene	Orthoterphenyl
6414144	79	93
6414145	122	124
6414146	92	156*
6414147	99	122
6414148	99	158*
6414149	75	94
6414150	94	120
6414151	105	133
6414152	97	121
6414153	71	84

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267605
Reported: 10/27/11 at 01:53 PM

Surrogate Quality Control

6414154	82	88
6414155	91	95
6414157	77	84
6414158	85	93
6414159	70	95
6414160	76	91
6414162	78	94
6414163	87	149*
6414164	69	86
6414165	66	89
6414166	71	81
6414167	73	95
Blank	75	90
LCS	80	92
MS	82	88
MSD	91	95
Limits:	37-125	47-145

Analysis Name: 18a Alcohols by 8015B
Batch number: 112690024A

	Acetone
6414144	74
6414145	59
6414147	111
6414148	95
6414149	108
6414150	108
6414151	109
6414152	112
6414153	135
6414154	100
6414155	102
6414157	110
6414158	109
6414159	78
6414162	41*
6414163	60
6414164	109
6414166	96
6414167	113
Blank	109
LCS	103
MS	100
MSD	102
Limits:	42-138

Analysis Name: 19a Glycols by 8015B
Batch number: 112720042A

	Tetramethylene glycol
6414144	67
6414145	66
6414146	68
6414147	63
6414148	65

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267605
Reported: 10/27/11 at 01:53 PM

Surrogate Quality Control

6414149	63
6414150	63
6414151	67
6414152	68
6414153	68
6414154	70
6414155	70
6414159	66
6414160	65
6414162	62
6414163	66
6414164	67
6414165	64
6414166	68
6414167	67
Blank	87
LCS	88
MS	70
MSD	70

Limits: 29-137

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1267605 sample# 6414144-67

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
‡ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	**Pesticides EPA 8081A (surface soil only)	**Herbicides EPA 8151 (surface soil only)	**TPH-EPH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terpheny/s EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowcrat EPA 8270	Other Instructions and Notes
SL-131-SA7-SS-0.0-0.5	09.19.11	1410	SOIL	NONE	1-SS Sleeve			X	X																		
SL-131-SA7-SS-0.0-0.5	09.19.11	1410	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-137-SA7-SS-0.0-0.5	09.19.11	1345	SOIL	NONE	1-SS Sleeve			X	X																		
SL-137-SA7-SS-0.0-0.5	09.19.11	1345	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-138-SA7-SS-0.0-0.5	09.19.11	1430	SOIL	NONE	1-SS Sleeve			X	X																		
SL-138-SA7-SS-0.0-0.5	09.19.11	1430	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-005-SA7-SS-0.0-0.5	09.20.11	1105	SOIL	NONE	1-SS Sleeve			X	X																		
SL-005-SA7-SS-0.0-0.5	09.20.11	1105	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-006-SA7-SS-0.0-0.5	09.20.11	1040	SOIL	NONE	1-SS Sleeve			X	X																		
SL-006-SA7-SS-0.0-0.5	09.20.11	1040	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-043-SA7-SS-0.0-0.5	09.20.11	1355	SOIL	NONE	1-SS Sleeve			X	X																		
SL-043-SA7-SS-0.0-0.5	09.20.11	1355	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X		X	X	X	X	
SL-046-SA7-SS-0.0-0.5	09.20.11	1015	SOIL	NONE	1-SS Sleeve			X	X																		
SL-046-SA7-SS-0.0-0.5	09.20.11	1015	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-047-SA7-SS-0.0-0.5	09.20.11	0900	SOIL	NONE	1-SS Sleeve			X	X																		
SL-047-SA7-SS-0.0-0.5	09.20.11	0900	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-049-SA7-SS-0.0-0.5	09.20.11	1155	SOIL	NONE	1-SS Sleeve			X	X																		
SL-049-SA7-SS-0.0-0.5	09.20.11	1155	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-050-SA7-SS-0.0-0.5MS	09.20.11	0730	SOIL	NONE	2-SS Sleeve			X	X																		
SL-050-SA7-SS-0.0-0.5MS	09.20.11	0730	SOIL	NONE	4-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		MS/MSD
SL-051-SA7-SS-0.0-0.5	09.20.11	0945	SOIL	NONE	1-SS Sleeve			X	X																		MS/MSD
SL-051-SA7-SS-0.0-0.5	09.20.11	0945	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-085-SA7-SS-0.0-0.5	09.20.11	1425	SOIL	NONE	1-SS Sleeve			X	X																		
SL-085-SA7-SS-0.0-0.5	09.20.11	1425	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	
SL-125-SA7-SS-0.0-0.5	09.20.11	1520	SOIL	NONE	1-SS Sleeve			X	X																		
SL-125-SA7-SS-0.0-0.5	09.20.11	1520	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X														
SL-129-SA7-SS-0.0-0.5	09.20.11	1135	SOIL	NONE	1-SS Sleeve			X	X																		
SL-129-SA7-SS-0.0-0.5	09.20.11	1135	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-134-SA7-SS-0.0-0.5	09.20.11	0925	SOIL	NONE	1-SS Sleeve			X	X																		
SL-134-SA7-SS-0.0-0.5	09.20.11	0925	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-135-SA7-SS-0.0-0.5	09.20.11	0810	SOIL	NONE	1-SS Sleeve			X	X																		
SL-135-SA7-SS-0.0-0.5	09.20.11	0810	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-173-SA7-SS-0.0-0.5	09.20.11	1445	SOIL	NONE	1-SS Sleeve			X	X																		
SL-173-SA7-SS-0.0-0.5	09.20.11	1445	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	
DUP03-SA7-QC-092011	09.20.11	0735	SOIL	NONE	1-SS Sleeve			X	X																		
DUP03-SA7-QC-092011	09.20.11	0735	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		

Relinquished by: (Signature) — Date/Time: 09/20/2011 / 1600 — Received for Laboratory by: (Signature) Kerry H/L UJ 9/21/11 0900

Received by: (Signature) — Date/Time — Air Bill No(s): 8754 3341 0737,0748,0759,0760

Laboratory: Lancaster Laboratories, Inc.

Nicole Maljovec

From: Nicole Maljovec
Sent: Wednesday, September 21, 2011 5:17 PM
To: 'Hartman, Pamela'
Subject: RE: SSFL COC 9/20/11- received extra samples

Oh, I should have thought of that! Ok, we'll enter the SL-022 jar under the already entered SL-022 (LLI# 6409796), and I'll have SL-136 entered for primary and secondary as well as pest and herbs since it's surface.

Thanks!

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Wednesday, September 21, 2011 4:50 PM
To: Nicole Maljovec
Subject: RE: SSFL COC 9/20/11- received extra samples

Hi Nicole,

SL-136 is all primary and secondary

SL-022 is an orphan from last week-it was sampled 9/16/11. I believe you guys received a jar and sleeve for it already, so hopefully that was enough for its analysis!

Sorry for the mistakes

Thanks,

Pam

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Wednesday, September 21, 2011 1:46 PM
To: Hartman, Pamela
Subject: FW: SSFL COC 9/20/11- received extra samples

Hi Pam,
We received two extra samples that weren't on the COC today. We have:

SL136-SA7-SS-0.0-0.5=one sleeve and 2 jars SL-022-SA7-SS-0.0-0.5= one jar

Do you have the sleeve for SL-022? And, what analyses should we enter for these?

Thanks!
Nicole

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Tuesday, September 20, 2011 7:27 PM
To: Bloisa, Peggy; Burgesser, Todd; 'Laura Rainey'; Nicole Maljovec; SA Env Entry; TWallbom@dtsc.ca.gov; Zakowski, Cherie
Subject: SSFL COC 9/20/11

Subsurface and surface sampling continued in SA7 today. Please see attached COC.

Thanks,

Pam

CONFIDENTIAL MATERIAL: This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If received in error,

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 25, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/21/2011
Group Number: 1267606
SDG: DE249
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-058-SA7-SB-0.5-1.5 Soil	6414168
SL-059-SA7-SB-5.0-6.0 Soil	6414169
SL-149-SA7-SB-0.0-1.0 Soil	6414170
SL-150-SA7-SB-0.0-1.0 Soil	6414171
SL-154-SA7-SB-0.0-1.0 Soil	6414172
SL-174-SA7-SB-1.0-2.0 Soil	6414173
TB-092011 Water	6414174

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-058-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA7-SB-0.5-1.5

LLI Sample # SW 6414168
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 14:40

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4901 SDG#: DE249-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	176	U	176	352		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-058-SA7-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA7-SB-0.5-1.5

LLI Sample # SW 6414168
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 14:40

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4901 SDG#: DE249-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	1.2	J	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		22.89
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-058-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA7-SB-0.5-1.5

LLI Sample # SW 6414168
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 14:40

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4901 SDG#: DE249-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	85	U	85	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	85	U	85	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	850	U	850	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	85	U	85	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	85	U	85	130	10000000	1
10132	PETN	78-11-5	850	U	850	2,500	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	640	U	640	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1

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Sample Description: **SL-058-SA7-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA7-SB-0.5-1.5

LLI Sample # SW 6414168
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 14:40

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4901 SDG#: DE249-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	5.9		0.35	1.8		1
10225	PCB-1260	11096-82-5	4.4		0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C21-C30)	n.a.	2.6		0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	7.1		0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,800		6.35	21.0		1
07914	Boron	7440-42-8	0.378	U	0.378	5.25		1
01650	Calcium	7440-70-2	2,730		2.62	21.0		1
01654	Iron	7439-89-6	20,200		2.71	20.8		1
01656	Lithium	7439-93-2	20.2		0.65	2.1		1
01657	Magnesium	7439-95-4	4,510		0.462	10.5		1
06958	Manganese	7439-96-5	238		0.0378	0.525		1
10145	Phosphorus	7723-14-0	240		0.367	10.5		1
01662	Potassium	7440-09-7	1,810		11.9	52.5		1
01667	Sodium	7440-23-5	134		6.25	105		1
07968	Strontium	7440-24-6	12.8		0.0262	0.525		1
06969	Tin	7440-31-5	2.98	J	0.336	10.5		1
06970	Titanium	7440-32-6	1,140		0.0745	1.05		1
10146	Zirconium	7440-67-7	2.76	J	0.483	5.25		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-058-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA7-SB-0.5-1.5

LLI Sample # SW 6414168
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 14:40

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4901 SDG#: DE249-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.120	J	0.0762	0.206		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.04		0.0824	0.412		2
06126	Barium	7440-39-3	85.9		0.109	0.412		2
06127	Beryllium	7440-41-7	0.566		0.0165	0.103		2
06128	Cadmium	7440-43-9	0.0544	J	0.0453	0.103		2
06131	Chromium	7440-47-3	16.1		0.124	0.412		2
06132	Cobalt	7440-48-4	4.61		0.0206	0.103		2
06133	Copper	7440-50-8	5.81		0.0824	0.412		2
06135	Lead	7439-92-1	4.41		0.0105	0.206		2
06138	Molybdenum	7439-98-7	0.450		0.0515	0.103		2
06139	Nickel	7440-02-0	8.91		0.103	0.412		2
06141	Selenium	7782-49-2	0.191	J	0.0597	0.412		2
06142	Silver	7440-22-4	0.0201	J	0.0146	0.103		2
06145	Thallium	7440-28-0	0.210		0.0309	0.103		2
06148	Vanadium	7440-62-2	30.8		0.0227	0.103		2
06149	Zinc	7440-66-6	44.6		0.577	3.09		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0088	J	0.0073	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1		0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.2		0.86	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26	J	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.26		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-058-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA7-SB-0.5-1.5

LLI Sample # SW 6414168
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 14:40

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4901 SDG#: DE249-01

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-058-SA7-SB-1.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11272SLB026	10/04/2011 15:09	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11271SLA026	10/04/2011 02:42	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11270SLB026	10/01/2011 01:30	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11272SLB026	09/30/2011 08:30	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11270SLB026	09/28/2011 17:55	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11271SLA026	09/29/2011 10:35	Roza S Goslawska	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11265A34A	09/22/2011 18:41	Marie D John	22.89
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201126425606	09/21/2011 21:48	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201126425606	09/21/2011 21:49	Lois E Hiltz	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112690017A	10/05/2011 00:42	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670008A	09/28/2011 22:26	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112700010A	09/30/2011 18:00	Jamie L Brillhart	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112700010A	09/28/2011 18:00	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670008A	09/26/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112690017A	09/29/2011 14:30	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112650033A	09/24/2011 01:26	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112720043A	09/30/2011 02:35	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112690009A	09/29/2011 18:15	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112720034A	10/03/2011 00:28	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112720034A	09/30/2011 08:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112690009A	09/28/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112650033A	09/23/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112720043A	09/29/2011 18:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708007	09/28/2011 18:15	John P Hook	1
07914	Boron	SW-846 6010B	1	112695708007	09/28/2011 18:15	John P Hook	1
01650	Calcium	SW-846 6010B	1	112695708007	09/29/2011 16:47	John P Hook	1
01654	Iron	SW-846 6010B	1	112765708001	10/04/2011 09:42	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112695708007	09/28/2011 18:15	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112695708007	09/30/2011 12:35	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112695708007	09/28/2011 18:15	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-058-SA7-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA7-SB-0.5-1.5

LLI Sample # SW 6414168
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 14:40

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4901 SDG#: DE249-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	112695708007	09/28/2011 18:15	John P Hook	1
01662	Potassium	SW-846 6010B	1	112695708007	09/30/2011 12:35	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112695708007	09/29/2011 16:47	John P Hook	1
07968	Strontium	SW-846 6010B	1	112695708007	09/28/2011 18:15	John P Hook	1
06969	Tin	SW-846 6010B	1	112695708007	09/28/2011 18:15	John P Hook	1
06970	Titanium	SW-846 6010B	1	112695708007	09/28/2011 18:15	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112695708007	09/28/2011 18:15	John P Hook	1
06124	Antimony	SW-846 6020	1	112691026002A	09/28/2011 07:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112691026002A	09/28/2011 07:35	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112691026002D	09/28/2011 07:35	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112691026002A	09/28/2011 07:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112691026002A	09/28/2011 07:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112691026002A	09/28/2011 07:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112691026002A	09/28/2011 07:35	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112691026002A	09/28/2011 07:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112691026002A	09/28/2011 07:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026002C	09/28/2011 07:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112691026002A	09/28/2011 07:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026002B	09/28/2011 07:35	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112691026002A	09/28/2011 07:35	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112691026002A	09/28/2011 07:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112691026002A	09/28/2011 07:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112691026002A	09/28/2011 07:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112695711004	09/28/2011 08:24	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708007	09/27/2011 21:49	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112765708001	10/03/2011 22:37	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026002	09/27/2011 21:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711004	09/28/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11272621201A	09/29/2011 11:47	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11272621201A	09/29/2011 11:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11266373203A	09/28/2011 16:53	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243202A	10/05/2011 20:51	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11276102201A	10/03/2011 19:53	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11272621201A	09/29/2011 05:25	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266373203A	09/23/2011 17:45	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11276102201A	10/03/2011 15:00	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11277039401A	10/04/2011 13:00	Michele L Graham	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-058-SA7-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA7-SB-0.5-1.5

LLI Sample # SW 6414168
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 14:40

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4901 SDG#: DE249-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243202A	10/03/2011 12:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11284162401B	10/11/2011 18:27	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-059-SA7-SB-5.0-6.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA7-SB-5.0-6.0

LLI Sample # SW 6414169
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 12:30

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4902 SDG#: DE249-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1

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Sample Description: **SL-059-SA7-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA7-SB-5.0-6.0

LLI Sample # SW 6414169
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 12:30

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4902 SDG#: DE249-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	190	U	190	190		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	1.7	J	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.6
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1

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Sample Description: **SL-059-SA7-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA7-SB-5.0-6.0

LLI Sample # SW 6414169
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 12:30

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4902 SDG#: DE249-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.58	J	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	3.6		0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	7.7		0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,300		6.61	21.9		1
07914	Boron	7440-42-8	0.394	U	0.394	5.47		1
01650	Calcium	7440-70-2	2,140		2.73	21.9		1
01654	Iron	7439-89-6	21,200		2.91	22.3		1
01656	Lithium	7439-93-2	18.3		0.68	2.2		1
01657	Magnesium	7439-95-4	3,950		0.481	10.9		1
06958	Manganese	7439-96-5	183		0.0394	0.547		1
10145	Phosphorus	7723-14-0	132		0.383	10.9		1
01662	Potassium	7440-09-7	1,410		12.4	54.7		1
01667	Sodium	7440-23-5	159		6.51	109		1
07968	Strontium	7440-24-6	13.2		0.0273	0.547		1
06969	Tin	7440-31-5	3.30	J	0.350	10.9		1
06970	Titanium	7440-32-6	1,230		0.0776	1.09		1

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Sample Description: **SL-059-SA7-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA7-SB-5.0-6.0

LLI Sample # SW 6414169
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 12:30

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4902 SDG#: DE249-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
10146	Zirconium	7440-67-7	3.53 J	0.503	5.47		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.139 J	0.0809	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.53	0.0875	0.437		2
06126	Barium	7440-39-3	52.1	0.116	0.437		2
06127	Beryllium	7440-41-7	0.534	0.0175	0.109		2
06128	Cadmium	7440-43-9	0.0481 U	0.0481	0.109		2
06131	Chromium	7440-47-3	16.3	0.131	0.437		2
06132	Cobalt	7440-48-4	6.70	0.0219	0.109		2
06133	Copper	7440-50-8	5.35	0.0875	0.437		2
06135	Lead	7439-92-1	4.91	0.0112	0.219		2
06138	Molybdenum	7439-98-7	0.813	0.0547	0.109		2
06139	Nickel	7440-02-0	7.18	0.109	0.437		2
06141	Selenium	7782-49-2	0.271 J	0.0634	0.437		2
06142	Silver	7440-22-4	0.0300 J	0.0155	0.109		2
06145	Thallium	7440-28-0	0.176	0.0328	0.109		2
06148	Vanadium	7440-62-2	38.4	0.0241	0.109		2
06149	Zinc	7440-66-6	35.9	0.612	3.28		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0081 J	0.0075	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.4	0.90	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.8		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.53		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.21	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.2	0.50	0.50		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-059-SA7-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA7-SB-5.0-6.0

LLI Sample # SW 6414169
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 12:30

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4902 SDG#: DE249-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-059-SA7-SB-5.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11271SLA026	10/04/2011 03:07	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11270SLB026	10/01/2011 03:12	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11270SLB026	09/28/2011 17:55	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11271SLA026	09/29/2011 10:35	Roza S Goslawska	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11265A34A	09/22/2011 19:18	Marie D John	22.6
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201126425606	09/21/2011 21:50	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201126425606	09/21/2011 21:51	Lois E Hiltz	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112700010A	09/30/2011 18:56	Jamie L Brillhart	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112700010A	09/28/2011 18:00	JoElla L Rice	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112650033A	09/24/2011 01:41	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112720043A	09/30/2011 02:48	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112690009A	09/29/2011 19:21	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112720034A	10/03/2011 00:52	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112720034A	09/30/2011 08:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112690009A	09/28/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112650033A	09/23/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112720043A	09/29/2011 18:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708007	09/28/2011 18:39	John P Hook	1
07914	Boron	SW-846 6010B	1	112695708007	09/28/2011 18:39	John P Hook	1
01650	Calcium	SW-846 6010B	1	112695708007	09/29/2011 17:11	John P Hook	1
01654	Iron	SW-846 6010B	1	112765708001	10/04/2011 10:07	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112695708007	09/28/2011 18:39	John P Hook	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-059-SA7-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA7-SB-5.0-6.0

LLI Sample # SW 6414169
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 12:30

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4902 SDG#: DE249-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	112695708007	09/30/2011 12:57	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112695708007	09/28/2011 18:39	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112695708007	09/28/2011 18:39	John P Hook	1
01662	Potassium	SW-846 6010B	1	112695708007	09/30/2011 12:57	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112695708007	09/29/2011 17:11	John P Hook	1
07968	Strontium	SW-846 6010B	1	112695708007	09/28/2011 18:39	John P Hook	1
06969	Tin	SW-846 6010B	1	112695708007	09/28/2011 18:39	John P Hook	1
06970	Titanium	SW-846 6010B	1	112695708007	09/28/2011 18:39	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112695708007	09/28/2011 18:39	John P Hook	1
06124	Antimony	SW-846 6020	1	112691026002A	09/28/2011 07:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112691026002A	09/28/2011 07:53	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112691026002D	09/28/2011 07:53	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112691026002A	09/28/2011 07:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112691026002A	09/28/2011 07:53	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112691026002A	09/28/2011 07:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112691026002A	09/28/2011 07:53	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112691026002A	09/28/2011 07:53	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112691026002A	09/28/2011 07:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026002C	09/28/2011 07:53	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112691026002A	09/28/2011 07:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026002B	09/28/2011 07:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112691026002A	09/28/2011 07:53	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112691026002A	09/28/2011 07:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112691026002A	09/28/2011 07:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112691026002A	09/28/2011 07:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112695711004	09/28/2011 08:31	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708007	09/27/2011 21:49	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112765708001	10/03/2011 22:37	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026002	09/27/2011 21:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711004	09/28/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11272621201A	09/29/2011 12:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11266373203A	09/28/2011 18:03	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243202A	10/05/2011 21:05	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11276102201A	10/03/2011 19:54	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11272621201A	09/29/2011 05:25	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266373203A	09/23/2011 17:45	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11276102201A	10/03/2011 15:00	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11277039401A	10/04/2011 13:00	Michele L Graham	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-059-SA7-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA7-SB-5.0-6.0

LLI Sample # SW 6414169
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 12:30

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4902 SDG#: DE249-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243202A	10/03/2011 12:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	2	11271162401A	09/28/2011 22:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-149-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA7-SB-0.0-1.0

LLI Sample # SW 6414170
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:05

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4903 SDG#: DE249-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.1	U	17.1	34.1		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-149-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-149-SA7-SB-0.0-1.0

LLI Sample # SW 6414170
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:05

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4903 SDG#: DE249-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19		1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.2	U	6.2	19		1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19		1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7		1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		23.28
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-149-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA7-SB-0.0-1.0

LLI Sample # SW 6414170
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:05

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4903 SDG#: DE249-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,500	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	620	U	620	1,500		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1

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Sample Description: **SL-149-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-149-SA7-SB-0.0-1.0

LLI Sample # SW 6414170
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:05

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4903 SDG#: DE249-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	0.52	J	0.41	1.2		1
10199	EFH (C21-C30)	n.a.	2.1		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	9.1		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.41	U	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,900		6.05	20.0		1
07914	Boron	7440-42-8	0.360	U	0.360	5.00		1
01650	Calcium	7440-70-2	6,440		2.50	20.0		1
01654	Iron	7439-89-6	18,500		2.66	20.4		1
01656	Lithium	7439-93-2	30.1		0.62	2.0		1
01657	Magnesium	7439-95-4	6,170		0.440	10.0		1
06958	Manganese	7439-96-5	282		0.0360	0.500		1
10145	Phosphorus	7723-14-0	358		0.350	10.0		1
01662	Potassium	7440-09-7	2,500		11.3	50.0		1
01667	Sodium	7440-23-5	87.0	J	5.95	100		1
07968	Strontium	7440-24-6	13.7		0.0250	0.500		1
06969	Tin	7440-31-5	2.79	J	0.320	10.0		1
06970	Titanium	7440-32-6	1,190		0.0710	1.00		1
10146	Zirconium	7440-67-7	2.17	J	0.460	5.00		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: **SL-149-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-149-SA7-SB-0.0-1.0

LLI Sample # SW 6414170
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:05

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4903 SDG#: DE249-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0887	J	0.0740	0.200		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.26		0.0800	0.400		2
06126	Barium	7440-39-3	79.1		0.106	0.400		2
06127	Beryllium	7440-41-7	0.473		0.0160	0.100		2
06128	Cadmium	7440-43-9	0.0643	J	0.0440	0.100		2
06131	Chromium	7440-47-3	16.6		0.120	0.400		2
06132	Cobalt	7440-48-4	5.46		0.0200	0.100		2
06133	Copper	7440-50-8	6.71		0.0800	0.400		2
06135	Lead	7439-92-1	3.54		0.0102	0.200		2
06138	Molybdenum	7439-98-7	0.374		0.0500	0.100		2
06139	Nickel	7440-02-0	10.2		0.100	0.400		2
06141	Selenium	7782-49-2	0.0724	J	0.0580	0.400		2
06142	Silver	7440-22-4	0.0166	J	0.0142	0.100		2
06145	Thallium	7440-28-0	0.219		0.0300	0.100		2
06148	Vanadium	7440-62-2	31.9		0.0220	0.100		2
06149	Zinc	7440-66-6	57.9		0.560	3.00		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	U	0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.84	U	0.84	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.8		0.84	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	30.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.60		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-149-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-149-SA7-SB-0.0-1.0

LLI Sample # SW 6414170
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:05

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4903 SDG#: DE249-03

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-149-SA7-SB-0.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11272SLB026	10/03/2011 20:08	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11271SLA026	10/04/2011 01:27	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11270SLB026	10/01/2011 03:46	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11272SLB026	09/30/2011 08:30	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11270SLB026	09/28/2011 17:55	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11271SLA026	09/29/2011 10:35	Roza S Goslawska	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11265A34A	09/22/2011 19:54	Marie D John	23.28
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201126425606	09/21/2011 21:52	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201126425606	09/21/2011 21:53	Lois E Hiltz	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112690017A	10/05/2011 02:49	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670008A	09/28/2011 22:35	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112700010A	09/30/2011 19:15	Jamie L Brillhart	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112700010A	09/28/2011 18:00	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670008A	09/26/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112690017A	09/29/2011 14:30	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112650033A	09/24/2011 01:56	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112720043A	09/30/2011 03:00	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112690009A	09/29/2011 19:43	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112720034A	10/03/2011 02:04	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112720034A	09/30/2011 08:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112690009A	09/28/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112650033A	09/23/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112720043A	09/29/2011 18:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708007	09/28/2011 18:50	John P Hook	1
07914	Boron	SW-846 6010B	1	112695708007	09/28/2011 18:50	John P Hook	1
01650	Calcium	SW-846 6010B	1	112695708007	09/29/2011 17:15	John P Hook	1
01654	Iron	SW-846 6010B	1	112765708001	10/04/2011 10:11	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112695708007	09/28/2011 18:50	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112695708007	09/30/2011 13:08	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112695708007	09/28/2011 18:50	John P Hook	1

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Sample Description: **SL-149-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-149-SA7-SB-0.0-1.0

LLI Sample # SW 6414170
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:05

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4903 SDG#: DE249-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	112695708007	09/28/2011 18:50	John P Hook	1
01662	Potassium	SW-846 6010B	1	112695708007	09/30/2011 13:08	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112695708007	09/29/2011 17:15	John P Hook	1
07968	Strontium	SW-846 6010B	1	112695708007	09/28/2011 18:50	John P Hook	1
06969	Tin	SW-846 6010B	1	112695708007	09/28/2011 18:50	John P Hook	1
06970	Titanium	SW-846 6010B	1	112695708007	09/28/2011 18:50	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112695708007	09/28/2011 18:50	John P Hook	1
06124	Antimony	SW-846 6020	1	112691026002A	09/28/2011 07:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112691026002A	09/28/2011 07:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112691026002D	09/28/2011 07:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112691026002A	09/28/2011 07:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112691026002A	09/28/2011 07:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112691026002A	09/28/2011 07:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112691026002A	09/28/2011 07:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112691026002A	09/28/2011 07:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112691026002A	09/28/2011 07:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026002C	09/28/2011 07:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112691026002A	09/28/2011 07:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026002B	09/28/2011 07:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112691026002A	09/28/2011 07:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112691026002A	09/28/2011 07:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112691026002A	09/28/2011 07:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112691026002A	09/28/2011 07:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112695711004	09/28/2011 08:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708007	09/27/2011 21:49	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112765708001	10/03/2011 22:37	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026002	09/27/2011 21:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711004	09/28/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11272621201A	09/29/2011 12:48	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11272621201A	09/29/2011 12:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11266373203A	09/28/2011 18:49	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243202A	10/05/2011 21:20	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11276102201A	10/03/2011 19:55	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11272621201A	09/29/2011 05:25	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266373203A	09/23/2011 17:45	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11276102201A	10/03/2011 15:00	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11277039401A	10/04/2011 13:00	Michele L Graham	1

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-149-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-149-SA7-SB-0.0-1.0

LLI Sample # SW 6414170
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:05

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4903 SDG#: DE249-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243202A	10/03/2011 12:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11284162401B	10/11/2011 18:27	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-150-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA7-SB-0.0-1.0

LLI Sample # SW 6414171
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:45

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4904 SDG#: DE249-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	16.8	U	16.8	33.6		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Sample Description: **SL-150-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-150-SA7-SB-0.0-1.0

LLI Sample # SW 6414171
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:45

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4904 SDG#: DE249-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.68	U	0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.81	J	0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.5	J	0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.68	U	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.68	U	0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	1.1	J	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.1	U	6.1	18		1
10138	Fluoranthene	206-44-0	1.7	J	0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	0.74	J	0.68	1.7		1
10138	Pyrene	129-00-0	1.3	J	0.68	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		27.23
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-150-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA7-SB-0.0-1.0

LLI Sample # SW 6414171
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:45

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4904 SDG#: DE249-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,500	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1

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SSFL Area IV Collocated Soil Sampling
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E4904 SDG#: DE249-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.70	J	0.34	1.7		1
10225	PCB-1260	11096-82-5	2.3		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	1.1	J	0.41	1.2		1
10199	EFH (C21-C30)	n.a.	4.9		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	12		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.41	U	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,100		6.13	20.3		1
07914	Boron	7440-42-8	0.365	U	0.365	5.07		1
01650	Calcium	7440-70-2	3,190		2.53	20.3		1
01654	Iron	7439-89-6	19,400		2.62	20.1		1
01656	Lithium	7439-93-2	22.0		0.63	2.0		1
01657	Magnesium	7439-95-4	4,900		0.446	10.1		1
06958	Manganese	7439-96-5	243		0.0365	0.507		1
10145	Phosphorus	7723-14-0	285		0.355	10.1		1
01662	Potassium	7440-09-7	2,380		11.5	50.7		1
01667	Sodium	7440-23-5	126		6.03	101		1
07968	Strontium	7440-24-6	16.4		0.0253	0.507		1
06969	Tin	7440-31-5	3.48	J	0.324	10.1		1
06970	Titanium	7440-32-6	1,240		0.0720	1.01		1
10146	Zirconium	7440-67-7	2.70	J	0.466	5.07		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-150-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA7-SB-0.0-1.0

LLI Sample # SW 6414171
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:45

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
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E4904 SDG#: DE249-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.147	J	0.0750	0.203		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.41		0.0811	0.405		2
06126	Barium	7440-39-3	76.9		0.107	0.405		2
06127	Beryllium	7440-41-7	0.554		0.0162	0.101		2
06128	Cadmium	7440-43-9	0.124		0.0446	0.101		2
06131	Chromium	7440-47-3	19.4		0.122	0.405		2
06132	Cobalt	7440-48-4	5.40		0.0203	0.101		2
06133	Copper	7440-50-8	7.24		0.0811	0.405		2
06135	Lead	7439-92-1	5.85		0.0103	0.203		2
06138	Molybdenum	7439-98-7	0.435		0.0507	0.101		2
06139	Nickel	7440-02-0	10.7		0.101	0.405		2
06141	Selenium	7782-49-2	0.191	J	0.0588	0.405		2
06142	Silver	7440-22-4	0.0252	J	0.0144	0.101		2
06145	Thallium	7440-28-0	0.268		0.0304	0.101		2
06148	Vanadium	7440-62-2	37.0		0.0223	0.101		2
06149	Zinc	7440-66-6	65.6		0.568	3.04		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076	J	0.0072	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3		0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	6.5		0.82	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.60		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-150-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-150-SA7-SB-0.0-1.0

LLI Sample # SW 6414171
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:45

Submitted: 09/21/2011 09:00
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14420 Albemarle Point Place
Suite 210
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E4904 SDG#: DE249-04

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-150-SA7-SB-0.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11272SLB026	10/03/2011 20:27	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11271SLA026	10/04/2011 03:32	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11270SLB026	10/02/2011 01:06	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11272SLB026	09/30/2011 08:30	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11270SLB026	09/28/2011 17:55	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11271SLA026	09/29/2011 10:35	Roza S Goslawska	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11265A34A	09/22/2011 20:30	Marie D John	27.23
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201126425606	09/21/2011 21:53	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201126425606	09/21/2011 21:54	Lois E Hiltz	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112690017A	10/05/2011 03:32	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670008A	09/28/2011 22:45	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112700010A	09/30/2011 19:34	Jamie L Brillhart	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112700010A	09/28/2011 18:00	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670008A	09/26/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112690017A	09/29/2011 14:30	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112650033A	09/24/2011 02:10	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112720043A	09/30/2011 03:13	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112690009A	09/29/2011 20:05	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112720034A	10/03/2011 02:27	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112720034A	09/30/2011 08:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112690009A	09/28/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112650033A	09/23/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112720043A	09/29/2011 18:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708007	09/28/2011 18:54	John P Hook	1
07914	Boron	SW-846 6010B	1	112695708007	09/28/2011 18:54	John P Hook	1
01650	Calcium	SW-846 6010B	1	112695708007	09/29/2011 17:27	John P Hook	1
01654	Iron	SW-846 6010B	1	112765708001	10/04/2011 10:23	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112695708007	09/28/2011 18:54	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112695708007	09/30/2011 13:12	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112695708007	09/28/2011 18:54	John P Hook	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-150-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-150-SA7-SB-0.0-1.0

LLI Sample # SW 6414171
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:45

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4904 SDG#: DE249-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	112695708007	09/28/2011 18:54	John P Hook	1
01662	Potassium	SW-846 6010B	1	112695708007	09/30/2011 13:12	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112695708007	09/29/2011 17:27	John P Hook	1
07968	Strontium	SW-846 6010B	1	112695708007	09/28/2011 18:54	John P Hook	1
06969	Tin	SW-846 6010B	1	112695708007	09/28/2011 18:54	John P Hook	1
06970	Titanium	SW-846 6010B	1	112695708007	09/28/2011 18:54	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112695708007	09/28/2011 18:54	John P Hook	1
06124	Antimony	SW-846 6020	1	112691026002A	09/28/2011 08:05	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112691026002A	09/28/2011 08:05	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112691026002D	09/28/2011 08:05	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112691026002A	09/28/2011 08:05	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112691026002A	09/28/2011 08:05	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112691026002A	09/28/2011 08:05	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112691026002A	09/28/2011 08:05	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112691026002A	09/28/2011 08:05	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112691026002A	09/28/2011 08:05	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026002C	09/28/2011 08:05	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112691026002A	09/28/2011 08:05	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026002B	09/28/2011 08:05	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112691026002A	09/28/2011 08:05	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112691026002A	09/28/2011 08:05	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112691026002A	09/28/2011 08:05	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112691026002A	09/28/2011 08:05	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112695711004	09/28/2011 08:33	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708007	09/27/2011 21:49	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112765708001	10/03/2011 22:37	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026002	09/27/2011 21:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711004	09/28/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11272621201A	09/29/2011 13:03	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11272621201A	09/29/2011 13:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11266373203A	09/28/2011 19:12	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243202A	10/05/2011 21:34	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11276102201A	10/03/2011 19:56	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11272621201A	09/29/2011 05:25	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266373203A	09/23/2011 17:45	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11276102201A	10/03/2011 15:00	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11277039401A	10/04/2011 13:00	Michele L Graham	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-150-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-150-SA7-SB-0.0-1.0

LLI Sample # SW 6414171
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:45

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4904 SDG#: DE249-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243202A	10/03/2011 12:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11284162401B	10/11/2011 18:27	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-154-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA7-SB-0.0-1.0

LLI Sample # SW 6414172
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 10:30

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4905 SDG#: DE249-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.5	U	17.5	34.9		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	70	U	70	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	70	U	70	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Sample Description: **SL-154-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-154-SA7-SB-0.0-1.0

LLI Sample # SW 6414172
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 10:30

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4905 SDG#: DE249-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.3	U	6.3	19		1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.7		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.7		1
10138	Pyrene	129-00-0	0.70	U	0.70	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.95
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-154-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA7-SB-0.0-1.0

LLI Sample # SW 6414172
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 10:30

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4905 SDG#: DE249-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	63	U	63	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	84	U	84	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	84	U	84	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	840	U	840	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	84	U	84	130	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	130	10000000	1
10132	4-Nitrotoluene	99-99-0	84	U	84	130	10000000	1
10132	PETN	78-11-5	840	U	840	2,500	10000000	1
10132	RDX	121-82-4	52	U	52	130	10000000	1
10132	Tetryl	479-45-8	64	U	64	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	630	U	630	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1

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Sample Description: **SL-154-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-154-SA7-SB-0.0-1.0

LLI Sample # SW 6414172
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 10:30

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4905 SDG#: DE249-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C21-C30)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	1.3		0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,600		6.34	21.0		1
07914	Boron	7440-42-8	0.377	U	0.377	5.24		1
01650	Calcium	7440-70-2	4,680		2.62	21.0		1
01654	Iron	7439-89-6	19,800		2.68	20.6		1
01656	Lithium	7439-93-2	30.1		0.65	2.1		1
01657	Magnesium	7439-95-4	5,370		0.461	10.5		1
06958	Manganese	7439-96-5	299		0.0377	0.524		1
10145	Phosphorus	7723-14-0	356		0.367	10.5		1
01662	Potassium	7440-09-7	2,510		11.8	52.4		1
01667	Sodium	7440-23-5	111		6.24	105		1
07968	Strontium	7440-24-6	11.1		0.0262	0.524		1
06969	Tin	7440-31-5	2.98	J	0.335	10.5		1
06970	Titanium	7440-32-6	1,270		0.0744	1.05		1
10146	Zirconium	7440-67-7	2.31	J	0.482	5.24		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-154-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA7-SB-0.0-1.0

LLI Sample # SW 6414172
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 10:30

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4905 SDG#: DE249-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.110	J	0.0768	0.208		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.38		0.0830	0.415		2
06126	Barium	7440-39-3	124		0.110	0.415		2
06127	Beryllium	7440-41-7	0.569		0.0166	0.104		2
06128	Cadmium	7440-43-9	0.0995	J	0.0457	0.104		2
06131	Chromium	7440-47-3	20.7		0.125	0.415		2
06132	Cobalt	7440-48-4	7.57		0.0208	0.104		2
06133	Copper	7440-50-8	9.87		0.0830	0.415		2
06135	Lead	7439-92-1	4.77		0.0106	0.208		2
06138	Molybdenum	7439-98-7	0.571		0.0519	0.104		2
06139	Nickel	7440-02-0	14.1		0.104	0.415		2
06141	Selenium	7782-49-2	0.0706	J	0.0602	0.415		2
06142	Silver	7440-22-4	0.0147	U	0.0147	0.104		2
06145	Thallium	7440-28-0	0.282		0.0311	0.104		2
06148	Vanadium	7440-62-2	41.6		0.0228	0.104		2
06149	Zinc	7440-66-6	75.3		0.581	3.11		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0072	U	0.0072	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	10.1		0.85	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.07		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-154-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-154-SA7-SB-0.0-1.0

LLI Sample # SW 6414172
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 10:30

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4905 SDG#: DE249-05

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-154-SA7-SB-0.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11272SLB026	10/03/2011 20:46	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11271SLA026	10/04/2011 03:57	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11270SLB026	10/02/2011 01:41	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11272SLB026	09/30/2011 08:30	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11270SLB026	09/28/2011 17:55	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11271SLA026	09/29/2011 10:35	Roza S Goslawska	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11265A34A	09/22/2011 21:07	Marie D John	23.95
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201126425606	09/21/2011 21:56	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201126425606	09/21/2011 21:56	Lois E Hiltz	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112690017A	10/05/2011 04:14	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670008A	09/28/2011 22:54	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112700010A	09/30/2011 19:52	Jamie L Brillhart	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112700010A	09/28/2011 18:00	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670008A	09/26/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112690017A	09/29/2011 14:30	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112650033A	09/24/2011 02:25	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112720043A	09/30/2011 03:26	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112690009A	09/29/2011 20:27	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112720034A	10/03/2011 02:51	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112720034A	09/30/2011 08:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112690009A	09/28/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112650033A	09/23/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112720043A	09/29/2011 18:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708007	09/28/2011 18:58	John P Hook	1
07914	Boron	SW-846 6010B	1	112695708007	09/28/2011 18:58	John P Hook	1
01650	Calcium	SW-846 6010B	1	112695708007	09/29/2011 17:31	John P Hook	1
01654	Iron	SW-846 6010B	1	112765708001	10/04/2011 10:27	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112695708007	09/28/2011 18:58	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112695708007	09/30/2011 13:16	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112695708007	09/28/2011 18:58	John P Hook	1

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Sample Description: **SL-154-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-154-SA7-SB-0.0-1.0

LLI Sample # SW 6414172
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 10:30

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4905 SDG#: DE249-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	112695708007	09/28/2011 18:58	John P Hook	1
01662	Potassium	SW-846 6010B	1	112695708007	09/30/2011 13:16	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112695708007	09/29/2011 17:31	John P Hook	1
07968	Strontium	SW-846 6010B	1	112695708007	09/28/2011 18:58	John P Hook	1
06969	Tin	SW-846 6010B	1	112695708007	09/28/2011 18:58	John P Hook	1
06970	Titanium	SW-846 6010B	1	112695708007	09/28/2011 18:58	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112695708007	09/28/2011 18:58	John P Hook	1
06124	Antimony	SW-846 6020	1	112691026002A	09/28/2011 08:08	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112691026002A	09/28/2011 08:08	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112691026002D	09/28/2011 08:08	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112691026002A	09/28/2011 08:08	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112691026002A	09/28/2011 08:08	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112691026002A	09/28/2011 08:08	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112691026002A	09/28/2011 08:08	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112691026002A	09/28/2011 08:08	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112691026002A	09/28/2011 08:08	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026002C	09/28/2011 08:08	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112691026002A	09/28/2011 08:08	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026002B	09/28/2011 08:08	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112691026002A	09/28/2011 08:08	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112691026002A	09/28/2011 08:08	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112691026002A	09/28/2011 08:08	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112691026002A	09/28/2011 08:08	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112695711004	09/28/2011 08:34	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708007	09/27/2011 21:49	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112765708001	10/03/2011 22:37	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026002	09/27/2011 21:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711004	09/28/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11272621201A	09/29/2011 13:19	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11272621201A	09/29/2011 13:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11266373203A	09/28/2011 21:17	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243202A	10/05/2011 21:49	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11276102201A	10/03/2011 19:57	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11272621201A	09/29/2011 05:25	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266373203A	09/23/2011 17:45	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11276102201A	10/03/2011 15:00	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11277039401A	10/04/2011 13:00	Michele L Graham	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-154-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-154-SA7-SB-0.0-1.0

LLI Sample # SW 6414172
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 10:30

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4905 SDG#: DE249-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243202A	10/03/2011 12:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11284162401B	10/11/2011 18:27	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-174-SA7-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA7-SB-1.0-2.0

LLI Sample # SW 6414173
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:35

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4906 SDG#: DE249-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	175	U	175	349		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	70	U	70	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	70	U	70	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-174-SA7-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA7-SB-1.0-2.0

LLI Sample # SW 6414173
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:35

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4906 SDG#: DE249-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		23.41
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-174-SA7-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA7-SB-1.0-2.0

LLI Sample # SW 6414173
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:35

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4906 SDG#: DE249-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	85	U	85	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	85	U	85	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	850	U	850	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	85	U	85	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	85	U	85	130	10000000	1
10132	PETN	78-11-5	850	U	850	2,500	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	640	U	640	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1

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Sample Description: SL-174-SA7-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA7-SB-1.0-2.0

LLI Sample # SW 6414173
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:35

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4906 SDG#: DE249-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C21-C30)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	0.94	J	0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	12,600		6.30	20.8		1
07914	Boron	7440-42-8	0.375	U	0.375	5.20		1
01650	Calcium	7440-70-2	3,310		2.60	20.8		1
01654	Iron	7439-89-6	19,800		2.74	21.0		1
01656	Lithium	7439-93-2	28.3		0.65	2.1		1
01657	Magnesium	7439-95-4	5,840		0.458	10.4		1
06958	Manganese	7439-96-5	334		0.0375	0.520		1
10145	Phosphorus	7723-14-0	401		0.364	10.4		1
01662	Potassium	7440-09-7	2,760		11.8	52.0		1
01667	Sodium	7440-23-5	112		6.19	104		1
07968	Strontium	7440-24-6	11.8		0.0260	0.520		1
06969	Tin	7440-31-5	3.08	J	0.333	10.4		1
06970	Titanium	7440-32-6	1,350		0.0739	1.04		1
10146	Zirconium	7440-67-7	2.38	J	0.479	5.20		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	

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Sample Description: **SL-174-SA7-SB-1.0-2.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-174-SA7-SB-1.0-2.0

LLI Sample # SW 6414173
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:35

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4906 SDG#: DE249-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.153	J	0.0786	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.01		0.0849	0.425		2
06126	Barium	7440-39-3	90.7		0.113	0.425		2
06127	Beryllium	7440-41-7	0.535		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.140		0.0467	0.106		2
06131	Chromium	7440-47-3	21.7		0.127	0.425		2
06132	Cobalt	7440-48-4	7.82		0.0212	0.106		2
06133	Copper	7440-50-8	8.70		0.0849	0.425		2
06135	Lead	7439-92-1	4.73		0.0108	0.212		2
06138	Molybdenum	7439-98-7	0.645		0.0531	0.106		2
06139	Nickel	7440-02-0	16.1		0.106	0.425		2
06141	Selenium	7782-49-2	0.166	J	0.0616	0.425		2
06142	Silver	7440-22-4	0.0151	U	0.0151	0.106		2
06145	Thallium	7440-28-0	0.311		0.0318	0.106		2
06148	Vanadium	7440-62-2	45.1		0.0234	0.106		2
06149	Zinc	7440-66-6	68.1		0.594	3.18		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0074	U	0.0074	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0		0.84	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.6		0.84	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	31.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.49		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.71		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-174-SA7-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-174-SA7-SB-1.0-2.0

LLI Sample # SW 6414173
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:35

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4906 SDG#: DE249-06

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-174-SA7-SB-1.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11272SLB026	10/04/2011 15:22	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11271SLA026	10/04/2011 04:22	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11270SLB026	10/02/2011 02:14	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11272SLB026	09/30/2011 08:30	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11270SLB026	09/28/2011 17:55	JoElla L Rice	1
00381	BNA Soil Sonication	SW-846 3550B	1	11271SLA026	09/29/2011 10:35	Roza S Goslawska	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11265A34A	09/22/2011 21:43	Marie D John	23.41
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201126425606	09/21/2011 21:57	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201126425606	09/21/2011 21:58	Lois E Hiltz	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112690017A	10/05/2011 04:57	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670008A	09/28/2011 23:04	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112700010A	09/30/2011 20:11	Jamie L Brillhart	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112700010A	09/28/2011 18:00	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670008A	09/26/2011 14:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112690017A	09/29/2011 14:30	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112650033A	09/24/2011 02:40	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112720043A	09/30/2011 03:39	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112690009A	09/29/2011 20:50	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112720034A	10/03/2011 03:15	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112720034A	09/30/2011 08:00	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112690009A	09/28/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112650033A	09/23/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112720043A	09/29/2011 18:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708007	09/28/2011 19:02	John P Hook	1
07914	Boron	SW-846 6010B	1	112695708007	09/28/2011 19:02	John P Hook	1
01650	Calcium	SW-846 6010B	1	112695708007	09/29/2011 17:35	John P Hook	1
01654	Iron	SW-846 6010B	1	112765708001	10/04/2011 10:31	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112695708007	09/28/2011 19:02	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112695708007	09/30/2011 13:20	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112695708007	09/28/2011 19:02	John P Hook	1

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Sample Description: **SL-174-SA7-SB-1.0-2.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-174-SA7-SB-1.0-2.0

LLI Sample # SW 6414173
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:35

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E4906 SDG#: DE249-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	112695708007	09/28/2011 19:02	John P Hook	1
01662	Potassium	SW-846 6010B	1	112695708007	09/30/2011 13:20	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112695708007	09/29/2011 17:35	John P Hook	1
07968	Strontium	SW-846 6010B	1	112695708007	09/28/2011 19:02	John P Hook	1
06969	Tin	SW-846 6010B	1	112695708007	09/28/2011 19:02	John P Hook	1
06970	Titanium	SW-846 6010B	1	112695708007	09/28/2011 19:02	John P Hook	1
10146	Zirconium	SW-846 6010B	1	112695708007	09/28/2011 19:02	John P Hook	1
06124	Antimony	SW-846 6020	1	112691026002A	09/28/2011 08:11	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112691026002A	09/28/2011 08:11	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112691026002D	09/28/2011 08:11	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112691026002A	09/28/2011 08:11	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112691026002A	09/28/2011 08:11	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112691026002A	09/28/2011 08:11	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112691026002A	09/28/2011 08:11	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112691026002A	09/28/2011 08:11	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112691026002A	09/28/2011 08:11	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026002C	09/28/2011 08:11	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112691026002A	09/28/2011 08:11	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026002B	09/28/2011 08:11	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112691026002A	09/28/2011 08:11	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112691026002A	09/28/2011 08:11	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112691026002A	09/28/2011 08:11	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112691026002A	09/28/2011 08:11	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112695711004	09/28/2011 08:35	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708007	09/27/2011 21:49	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112765708001	10/03/2011 22:37	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026002	09/27/2011 21:51	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711004	09/28/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11272621201A	09/29/2011 13:34	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11272621201A	09/29/2011 13:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11266373203A	09/28/2011 21:40	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243202A	10/05/2011 22:03	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11276102201B	10/03/2011 19:59	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11272621201A	09/29/2011 05:25	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266373203A	09/23/2011 17:45	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11276102201B	10/03/2011 15:00	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11277039401A	10/04/2011 13:00	Michele L Graham	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-174-SA7-SB-1.0-2.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-174-SA7-SB-1.0-2.0

LLI Sample # SW 6414173
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:35

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4906 SDG#: DE249-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243202A	10/03/2011 12:00	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11284162401B	10/11/2011 18:27	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: TB-092011 Water
SSFL Area IV Collocated Soil Sampling
TB-092011

LLI Sample # WW 6414174
LLI Group # 1267606
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 08:00

Submitted: 09/21/2011 09:00
Reported: 10/25/2011 10:53

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E4907 SDG#: DE249-07TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11273B20A	10/01/2011	15:45	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11273B20A	10/01/2011	15:45	Marie D John	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267606
Reported: 10/25/11 at 10:53 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11270SLB026	Sample number(s): 6414168-6414173									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	102		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	95		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	100		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	102		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	101		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	100		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	106		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	110		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	101		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	119		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	99		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	113		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	113		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	107		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	103		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	108		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	104		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	110		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	91		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	95		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	98		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	105		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	100		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	95		72-119		
Batch number: 11271SLA026	Sample number(s): 6414168-6414173									
Aniline	170	U	170.	500	ug/kg	72		20-115		
Benzidine	1,200	U	1,200.	3,300	ug/kg	68		15-121		
Benzoic acid	170	U	170.	500	ug/kg	14*		62-113		
Benzyl alcohol	170	U	170.	500	ug/kg	99		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	101		73-114		
Carbazole	17	U	17.	170	ug/kg	109		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	103		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	78		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	94		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	93		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	88		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	85		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	102		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	95		74-115		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267606
Reported: 10/25/11 at 10:53 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dibenzofuran	17	U	17.	170	ug/kg	100		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	87		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	88		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	86		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	71		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	101		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	101		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	99		83-120		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	10*		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	0*		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	104		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	110		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	106		71-125		
Hexachlorobenzene	17	U	17.	170	ug/kg	99		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	88		65-117		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	88		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	87		61-109		
Isophorone	17	U	17.	170	ug/kg	96		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	100		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	95		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	102		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	104		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	85		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	99		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	108		76-111		
4-Nitrophenol	170 U		170.	500	ug/kg	83		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	85		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	110		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	54		51-117		
Phenol	17	U	17.	170	ug/kg	99		58-112		
Tetralin	170 U		170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	92		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	105		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	109		78-111		
Batch number: 11272SLB026	Sample number(s): 6414168,6414170-6414173									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	110		70-130		
Batch number: 11265A34A	Sample number(s): 6414168-6414173									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	69	76	67-119	10	30
Batch number: 11273B20A	Sample number(s): 6414174									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 112690017A	Sample number(s): 6414168,6414170-6414173									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	104		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	101		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	76	85	54-134	12	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	75	85	54-134	12	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	106		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	96		72-135		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267606
Reported: 10/25/11 at 10:53 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	103		80-120		
HMX	100	U	100.	300	ug/kg	89		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	97		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	84		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	98		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	104		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	97		80-120		
PETN	800	U	800.	2,400	ug/kg	99		80-120		
RDX	50	U	50.	120	ug/kg	101		75-131		
Tetryl	61	U	61.	120	ug/kg	107		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	103		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	103		80-120		
Batch number: 112670008A	Sample number(s): 6414168,6414170-6414173									
20a Formaldehyde 8315A	600	U	600.	1,500	ug/kg	103		80-126		
Batch number: 112700010A	Sample number(s): 6414168-6414173									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	80	74	36-106	7	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	89		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	96		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112650033A	Sample number(s): 6414168-6414173									
Ethanol	100	U	100.	500	ug/kg	109		71-129		
Isopropanol	100	U	100.	500	ug/kg	106		75-125		
Methanol	100	U	100.	500	ug/kg	117		68-129		
Batch number: 112720043A	Sample number(s): 6414168-6414173									
Diethylene glycol	5.0	U	5.0	10	mg/kg	94		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	96		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	85		67-131		
Batch number: 112690009A	Sample number(s): 6414168-6414173									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	89		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	90		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	90		69-109		
Batch number: 112720034A	Sample number(s): 6414168-6414173									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	95		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	104		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	102		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	101		65-128		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267606
Reported: 10/25/11 at 10:53 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	88		49-107		
Batch number: 112691026002A	Sample number(s): 6414168-6414173									
Antimony	0.0740	U	0.0740	0.200	mg/kg	104		10-224		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	104		78-122		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	106		80-120		
Cadmium	0.0440	U	0.0440	0.100	mg/kg	105		81-119		
Chromium	0.120	U	0.120	0.400	mg/kg	116		77-123		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	107		80-119		
Copper	0.0800	U	0.0800	0.400	mg/kg	109		78-122		
Lead	0.0102	U	0.0102	0.200	mg/kg	102		77-123		
Nickel	0.100	U	0.100	0.400	mg/kg	113		80-120		
Silver	0.0142	U	0.0142	0.100	mg/kg	107		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	101		75-124		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	119		76-124		
Zinc	0.560	U	0.560	3.00	mg/kg	109		79-121		
Batch number: 112691026002B	Sample number(s): 6414168-6414173									
Selenium	0.0580	U	0.0580	0.400	mg/kg	107		77-123		
Batch number: 112691026002C	Sample number(s): 6414168-6414173									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	110		76-123		
Batch number: 112691026002D	Sample number(s): 6414168-6414173									
Barium	0.106	U	0.106	0.400	mg/kg	108		80-120		
Batch number: 112695708007	Sample number(s): 6414168-6414173									
Aluminum	6.05	U	6.05	20.0	mg/kg	156		42-158		
Boron	0.360	U	0.360	5.00	mg/kg	104		66-134		
Calcium	6.45	J	2.50	20.0	mg/kg	116		79-121		
Lithium	0.62	U	0.62	2.0	mg/kg	102		80-120		
Magnesium	0.522	J	0.440	10.0	mg/kg	136		64-136		
Manganese	0.0360	U	0.0360	0.500	mg/kg	110		78-122		
Phosphorus	1.28	J	0.350	10.0	mg/kg	104		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	127		69-131		
Sodium	5.95	U	5.95	100	mg/kg	125		71-129		
Strontium	0.0340	J	0.0250	0.500	mg/kg	106		81-119		
Tin	1.49	J	0.320	10.0	mg/kg	98		74-126		
Titanium	0.0710	U	0.0710	1.00	mg/kg	106		80-120		
Zirconium	0.460	U	0.460	5.00	mg/kg	103		80-120		
Batch number: 112695711004	Sample number(s): 6414168-6414173									
Mercury	0.0070	U	0.0070	0.0994	mg/kg	105		72-128		
Batch number: 112765708001	Sample number(s): 6414168-6414173									
Iron	2.61	U	2.61	20.0	mg/kg	134		51-149		
Batch number: 11266373203A	Sample number(s): 6414168-6414173									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	113		85-115		
Batch number: 11272621201A	Sample number(s): 6414168-6414173									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	93		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	90		90-110		
Batch number: 11276102201A	Sample number(s): 6414168-6414172									
16a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	109		80-120		
Batch number: 11276102201B	Sample number(s): 6414173									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267606
Reported: 10/25/11 at 10:53 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
16a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	109		80-120		
Batch number: 11276243202A	Sample number(s): 6414168-6414173									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	90		80-120		
Batch number: 11277039401A	Sample number(s): 6414168-6414173									
17a pH by 9045C						100		95-105		
Batch number: 11271162401A	Sample number(s): 6414169									
Moisture Content by 160.3						100		80-120		
Batch number: 11284162401B	Sample number(s): 6414168,6414170-6414173									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11270SLB026	Sample number(s): 6414168-6414173 UNSPK: 6414168								
Acenaphthene	95	102	63-105	7	30				
Acenaphthylene	92	98	67-114	7	30				
Anthracene	101	100	73-115	1	30				
Benzo(a)anthracene	101	104	59-128	3	30				
Benzo(a)pyrene	101	105	58-142	4	30				
Benzo(b)fluoranthene	123	102	54-163	19	30				
Benzo(g,h,i)perylene	84	83	33-141	1	30				
Benzo(k)fluoranthene	101	111	57-153	10	30				
Butylbenzylphthalate	109	113	57-173	4	30				
Di-n-butylphthalate	127	131	65-148	3	30				
Chrysene	94	95	67-123	1	30				
Dibenz(a,h)anthracene	98	100	22-133	1	30				
Diethylphthalate	112	114	70-136	1	30				
Dimethylphthalate	106	108	74-118	2	30				
Bis(2-Ethylhexyl)phthalate	111	120	39-167	8	30				
Fluoranthene	109	111	51-149	1	30				
Fluorene	98	104	66-122	6	30				
Indeno(1,2,3-cd)pyrene	95	95	21-143	0	30				
1-Methylnaphthalene	89	95	72-123	6	30				
2-Methylnaphthalene	86	95	64-103	11	30				
Naphthalene	89	97	61-102	9	30				
N-Nitrosodimethylamine	92	98	48-113	7	30				
Di-n-octylphthalate	110	116	40-192	5	30				
Phenanthrene	98	96	62-122	2	30				
Pyrene	95	96	51-131	1	30				
Batch number: 11271SLA026	Sample number(s): 6414168-6414173 UNSPK: 6414170								
Aniline	77	70	18-116	11	30				
Benzidine	64	61	35-141	7	30				
Benzoic acid	22	14	10-173	43*	30				
Benzyl alcohol	99	88	67-115	12	30				
4-Bromophenyl-phenylether	100	96	67-129	5	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267606
Reported: 10/25/11 at 10:53 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Carbazole	107	102	64-120	5	30				
4-Chloro-3-methylphenol	105	99	62-122	7	30				
4-Chloroaniline	75	75	13-107	1	30				
bis(2-Chloroethoxy)methane	94	91	75-104	4	30				
bis(2-Chloroethyl)ether	92	83	60-116	11	30				
bis(2-Chloroisopropyl)ether	85	76	55-142	12	30				
2-Chloronaphthalene	79	79	50-141	1	30				
2-Chlorophenol	103	95	73-121	9	30				
4-Chlorophenyl-phenylether	90	90	80-109	1	30				
Dibenzofuran	93	94	71-112	1	30				
1,2-Dichlorobenzene	81	76	66-108	7	30				
1,3-Dichlorobenzene	78	74	63-109	6	30				
1,4-Dichlorobenzene	77	72	58-108	7	30				
3,3'-Dichlorobenzidine	74	72	28-109	2	30				
2,4-Dichlorophenol	101	96	66-123	6	30				
2,4-Dimethylphenol	102	97	68-118	6	30				
3,5-Dimethylphenol	101	96	71-127	6	30				
4,6-Dinitro-2-methylphenol	11	0*	11-126	200*	30				
2,4-Dinitrophenol	0*	0*	20-143	0	30				
2,4-Dinitrotoluene	98	98	56-129	0	30				
2,6-Dinitrotoluene	99	102	69-123	2	30				
1,2-Diphenylhydrazine	102	99	71-129	3	30				
Hexachlorobenzene	97	90	77-114	9	30				
Hexachlorobutadiene	85	79	62-120	7	30				
Hexachlorocyclopentadiene	65	70	10-153	7	30				
Hexachloroethane	78	77	57-109	2	30				
Isophorone	96	92	73-102	5	30				
2-Methylphenol	99	90	75-111	10	30				
4-Methylphenol	96	87	59-123	10	30				
2-Nitroaniline	96	100	67-125	3	30				
3-Nitroaniline	97	98	59-122	1	30				
4-Nitroaniline	81	79	41-109	3	30				
Nitrobenzene	96	93	57-125	4	30				
2-Nitrophenol	102	104	56-127	1	30				
4-Nitrophenol	83	85	37-129	2	30				
N-Nitroso-di-n-propylamine	84	80	60-116	7	30				
N-Nitrosodiphenylamine	108	104	71-122	5	30				
Pentachlorophenol	67	55	28-127	20	30				
Phenol	97	91	58-126	7	30				
1,2,4-Trichlorobenzene	91	84	72-115	8	30				
2,4,5-Trichlorophenol	96	100	58-129	3	30				
2,4,6-Trichlorophenol	100	102	56-134	2	30				
Batch number: 11272SLB026	Sample number(s): 6414168,6414170-6414173 UNSPK: P415790								
N-Nitrosodimethylamine	113	98	70-130	16	30				
Batch number: 11265A34A	Sample number(s): 6414168-6414173 UNSPK: P419519								
9a TPH by EPA 8015B Gas C5-C12	74	87	39-118	17	30				
Batch number: 112690017A	Sample number(s): 6414168,6414170-6414173 UNSPK: 6414168								
4-Amino-2,6-Dinitrotoluene	107	113	80-127	6	50				
2-Amino-4,6-Dinitrotoluene	105	114	80-137	7	50				
1,3-Dinitrobenzene	109	117	38-166	7	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267606
Reported: 10/25/11 at 10:53 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4-Dinitrotoluene	100	108	80-131	8	50				
2,6-Dinitrotoluene	104	111	80-127	6	50				
HMX	91	97	63-128	6	50				
Nitrobenzene	101	106	80-125	5	50				
Nitroglycerin	98	104	80-120	7	50				
2-Nitrotoluene	101	108	80-122	7	50				
3-Nitrotoluene	107	115	72-119	7	50				
4-Nitrotoluene	100	107	80-125	7	50				
PETN	106	114	80-121	7	50				
RDX	98	106	75-129	8	50				
Tetryl	90	103	55-174	14	50				
1,3,5-Trinitrobenzene	101	109	82-126	8	50				
2,4,6-Trinitrotoluene	105	113	82-130	7	50				
Batch number: 112670008A	Sample number(s): 6414168,6414170-6414173 UNSPK: P414153								
20a Formaldehyde 8315A	96	98	80-120	2	50				
Batch number: 112700010A	Sample number(s): 6414168-6414173 UNSPK: 6414168								
PCB-1016	95	87	29-146	8	50				
PCB-1260	100	78	39-149	19	50				
Batch number: 112650033A	Sample number(s): 6414168-6414173 UNSPK: 6414168								
Ethanol	101	57	48-130	56*	20				
Isopropanol	97	53	12-149	58*	20				
Methanol	106	62	43-138	52*	20				
Batch number: 112720043A	Sample number(s): 6414168-6414173 UNSPK: P419519								
Diethylene glycol	22*	28*	59-109	27*	20				
Ethylene glycol	58*	60*	63-107	3	20				
Propylene glycol	63	64	63-107	2	20				
Batch number: 112690009A	Sample number(s): 6414168-6414173 UNSPK: 6414168								
m-Terphenyl	91	89	75-125	2	20				
o-Terphenyl	92	90	75-125	2	20				
p-Terphenyl	92	90	75-125	2	20				
Batch number: 112720034A	Sample number(s): 6414168-6414173 UNSPK: 6414169								
EFH (C12-C14)	93	92	49-123	1	20				
EFH (C15-C20)	91	85	49-123	5	20				
EFH (C21-C30)	119	64	49-123	22*	20				
EFH (C30 - C40)	102	105	49-123	1	20				
EFH (C8-C11)	69	67	49-123	2	20				
Batch number: 112691026002A	Sample number(s): 6414168-6414173 UNSPK: 6414168 BKG: 6414168								
Antimony	67*	73*	75-125	7	20	0.113 J	0.112 J	2 (1)	20
Arsenic	219*	229*	75-125	2	20	3.81	4.46	16	20
Beryllium	160*	158*	75-125	1	20	0.534	0.600	12	20
Cadmium	141*	157*	75-125	11	20	0.0513 J	0.0472 J	8 (1)	20
Chromium	167*	179*	75-125	3	20	15.1	16.7	10	20
Cobalt	144*	156*	75-125	8	20	4.35	5.28	19	20
Copper	171*	186*	75-125	7	20	5.48	6.63	19	20
Lead	202*	218*	75-125	5	20	4.16	5.19	22*	20
Nickel	188*	199*	75-125	4	20	8.40	9.76	15	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267606
Reported: 10/25/11 at 10:53 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Silver	143*	152*	75-125	6	20	0.0189 J	0.0229 J	19 (1)	20
Thallium	165*	170*	75-125	2	20	0.198	0.236	17 (1)	20
Vanadium	224*	250*	75-125	5	20	29.1	33.6	14	20
Zinc	352 (2)	395 (2)	75-125	5	20	42.1	52.2	21*	20
Batch number: 112691026002B	Sample number(s): 6414168-6414173 UNSPK: 6414168 BKG: 6414168								
Selenium	128*	150*	75-125	15	20	0.180 J	0.185 J	3 (1)	20
Batch number: 112691026002C	Sample number(s): 6414168-6414173 UNSPK: 6414168 BKG: 6414168								
Molybdenum	151*	161*	75-125	6	20	0.424	0.494	15 (1)	20
Batch number: 112691026002D	Sample number(s): 6414168-6414173 UNSPK: 6414168 BKG: 6414168								
Barium	256 (2)	272 (2)	75-125	1	20	81.0	73.3	10	20
Batch number: 112695708007	Sample number(s): 6414168-6414173 UNSPK: 6414168 BKG: 6414168								
Aluminum	1678 (2)	1794 (2)	75-125	1	20	12,000	13,400	11	20
Boron	97	97	84-115	0	20	0.356 U	0.356 U	0 (1)	20
Calcium	148 (2)	166 (2)	75-125	2	20	2,570	2,750	7	20
Lithium	96	99	82-114	2	20	19.1	21.1	10	20
Magnesium	232 (2)	333 (2)	75-125	4	20	4,250	4,630	9	20
Manganese	195 (2)	101 (2)	75-125	15	20	224	253	12	20
Phosphorus	110	121	75-125	3	20	226	259	14	20
Potassium	131*	143*	75-125	4	20	1,700	1,860	9	20
Sodium	101	100	75-125	0	20	126	134	6 (1)	20
Strontium	97	98	75-115	0	20	12.1	13.1	8	20
Tin	89	88	80-110	1	20	2.81 J	2.87 J	2 (1)	20
Titanium	316 (2)	373 (2)	75-125	4	20	1,070	1,170	9	20
Zirconium	94	96	75-125	2	20	2.60 J	3.46 J	28* (1)	20
Batch number: 112695711004	Sample number(s): 6414168-6414173 UNSPK: 6414168 BKG: 6414168								
Mercury	92	93	65-135	0	20	0.0083 J	0.0069 U	200* (1)	20
Batch number: 112765708001	Sample number(s): 6414168-6414173 UNSPK: 6414168 BKG: 6414168								
Iron	1258 (2)	610 (2)	75-125	3	20	19,100	17,900	7	20
Batch number: 11266373203A	Sample number(s): 6414168-6414173 UNSPK: 6414168 BKG: 6414168								
7a Perchlorate EPA 314.0	106		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11272621201A	Sample number(s): 6414168-6414173 UNSPK: 6414168 BKG: 6414168								
11a Anions by 300.0 - Fluoride	66*		80-120			2.9	3.3	14 (1)	20
11a Anions by 300.0 - Nitrate	95		80-120			3.0	3.5	15 (1)	20
Batch number: 11276102201A	Sample number(s): 6414168-6414172 UNSPK: P414162 BKG: P414162								
16a Cyanide by 9012B	99		75-125			0.18 U	0.17 U	0 (1)	20
Batch number: 11276102201B	Sample number(s): 6414173 UNSPK: 6414173 BKG: 6414173								
16a Cyanide by 9012B	100		75-125			0.17 U	0.17 U	0 (1)	20
Batch number: 11276243202A	Sample number(s): 6414168-6414173 UNSPK: 6414173 BKG: 6414173								
3a Cr VI by EPA 7199	89		75-125			0.20 U	0.20 U	0 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267606
Reported: 10/25/11 at 10:53 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11277039401A	Sample number(s): 6414168-6414173 BKG: 6414173								
17a pH by 9045C						7.71	7.64	1	3
Batch number: 11271162401A	Sample number(s): 6414169 BKG: 6414169								
Moisture Content by 160.3						11.2	11.9	6	20
Batch number: 11284162401B	Sample number(s): 6414168,6414170-6414173 BKG: 6414173								
Moisture Content by 160.3						5.8	5.9	2	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11270SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6414168	96	88	85
6414169	100	86	86
6414170	99	92	87
6414171	92	64	84
6414172	98	90	88
6414173	95	74	87
Blank	109	102	100
LCS	98	93	89
MS	93	84	86
MSD	109	91	89
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11271SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6414168	99	107	75	90	90	86
6414169	98	109	73	91	89	85
6414170	100	108	83	94	92	86
6414171	93	101	79	90	90	84
6414172	96	103	72	90	91	85
6414173	98	108	66	91	94	85
Blank	93	103	81	92	95	88
LCS	99	106	94	96	99	88
MS	97	103	83	94	90	84
MSD	90	96	81	92	92	84
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 21a NDMA by 1625C
Batch number: 11272SLB026

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267606
Reported: 10/25/11 at 10:53 AM

Surrogate Quality Control

	N-Nitrosodimethylamine-d6
6414168	134
6414170	132
6414171	125
6414172	129
6414173	146
Blank	159*
LCS	165*
MS	347*
MSD	351*
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11265A34A

	Trifluorotoluene-F
6414168	89
6414169	82
6414170	93
6414171	90
6414172	88
6414173	90
Blank	91
LCS	87
LCSD	96
MS	93
MSD	90
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11273B20A

	Trifluorotoluene-F
6414174	89
Blank	80
LCS	115
LCSD	106
Limits:	63-135

Analysis Name: 20a Formaldehyde 8315A
Batch number: 112670008A

	Butyraldehyde
6414168	93
6414170	93
6414171	89
6414172	93
6414173	92
Blank	95
LCS	91
MS	93
MSD	100

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267606
Reported: 10/25/11 at 10:53 AM

Surrogate Quality Control

Limits: 64-126

Analysis Name: 15a Energetics by 8330A
Batch number: 112690017A

	2-Nitro-m-xylene
6414168	108
6414170	108
6414171	109
6414172	109
6414173	110
Blank	113
LCS	106
LCSD	105
MS	113
MSD	107

Limits: 80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112700010A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6414168	94	90
6414169	94	93
6414170	95	94
6414171	81	78
6414172	89	88
6414173	97	95
Blank	97	96
LCS	94	94
LCSD	98	102
MS	99	97
MSD	93	88

Limits: 53-139 45-120

Analysis Name: 18a Alcohols by 8015B
Batch number: 112650033A

	Acetone
6414168	96
6414169	47
6414170	49
6414171	52
6414172	55
6414173	54
Blank	106
LCS	105
MS	95
MSD	54

Limits: 42-138

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112690009A

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267606
Reported: 10/25/11 at 10:53 AM

Surrogate Quality Control

	n-Triacontane-d62
6414168	66
6414169	70
6414170	70
6414171	68
6414172	65
6414173	66
Blank	70
LCS	66
MS	69
MSD	68
Limits:	19-152

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112720034A

	Chlorobenzene	Orthoterphenyl
6414168	65	90
6414169	61	89
6414170	72	93
6414171	67	92
6414172	81	92
6414173	82	93
Blank	75	94
LCS	80	97
MS	80	96
MSD	76	95
Limits:	37-125	47-145

Analysis Name: 19a Glycols by 8015B
Batch number: 112720043A

	Tetramethylene glycol
6414168	74
6414169	74
6414170	73
6414171	70
6414172	75
6414173	74
Blank	85
LCS	87
MS	76
MSD	74
Limits:	29-137

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acct# 13013 Cp# 12676006 Sample# 6H141168-74

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowcnal EPA 8270	Other Instructions and Notes
SL-058-SA7-SB-1.0	09.20.11	1441	SOIL	NONE	2-Encores										X											
SL-058-SA7-SB-0.5-1.5	09.20.11	1440	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-059-SA7-SB-5.5	09.20.11	1231	SOIL	NONE	2-Encores										X											
SL-059-SA7-SB-5.0-6.0	09.20.11	1230	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X					X	X	X	X		
SL-149-SA7-SB-0.5	09.20.11	1106	SOIL	NONE	2-Encores										X											
SL-149-SA7-SB-0.0~~0.5~~ 1.0	09.20.11	1105	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-150-SA7-SB-0.5	09.20.11	1146	SOIL	NONE	2-Encores										X											
SL-150-SA7-SB-0.0-1.0	09.20.11	1145	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-154-SA7-SB-0.5	09.20.11	1031	SOIL	NONE	2-Encores										X											
SL-154-SA7-SB-0.0-1.0	09.20.11	1030	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-174-SA7-SB-1.5	09.20.11	0936	SOIL	NONE	2-Encores										X											
SL-174-SA7-SB-1.0-2.0	09.20.11	0935	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
TB-092011	09.20.11	0800	WATER	NONE	2-10mL vials										X											

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	09/20/2011 / 1600	LLI 9/21/11 0900	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(#)	
		8754 3341 0737,0748,0759,0760	

Sample ID SL-149 was updated per PH. NLM 9/26/11

Nicole Maljovec

From: Nicole Maljovec
Sent: Wednesday, September 21, 2011 5:17 PM
To: 'Hartman, Pamela'
Subject: RE: SSFL COC 9/20/11- received extra samples

Oh, I should have thought of that! Ok, we'll enter the SL-022 jar under the already entered SL-022 (LLI# 6409796), and I'll have SL-136 entered for primary and secondary as well as pest and herbs since it's surface.

Thanks!

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Wednesday, September 21, 2011 4:50 PM
To: Nicole Maljovec
Subject: RE: SSFL COC 9/20/11- received extra samples

Hi Nicole,

SL-136 is all primary and secondary

SL-022 is an orphan from last week-it was sampled 9/16/11. I believe you guys received a jar and sleeve for it already, so hopefully that was enough for its analysis!

Sorry for the mistakes

Thanks,

Pam

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Wednesday, September 21, 2011 1:46 PM
To: Hartman, Pamela
Subject: FW: SSFL COC 9/20/11- received extra samples

Hi Pam,
We received two extra samples that weren't on the COC today. We have:

SL136-SA7-SS-0.0-0.5=one sleeve and 2 jars SL-022-SA7-SS-0.0-0.5= one jar

Do you have the sleeve for SL-022? And, what analyses should we enter for these?

Thanks!
Nicole

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Tuesday, September 20, 2011 7:27 PM
To: Bloisa, Peggy; Burgesser, Todd; 'Laura Rainey'; Nicole Maljovec; SA Env Entry; TWallbom@dtsc.ca.gov; Zakowski, Cherie
Subject: SSFL COC 9/20/11

Subsurface and surface sampling continued in SA7 today. Please see attached COC.

Thanks,

Pam

CONFIDENTIAL MATERIAL: This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If received in error,

Nicole Maljovec

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Monday, September 26, 2011 7:35 PM
To: Nicole Maljovec; Bloisa, Peggy
Subject: RE: SSFL COC 9/20/11- confirm sample depth for SL-149-SA7-SB-0.0-0.1

yes, is should be 0.0-1.0 ! Thank you!

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Monday, September 26, 2011 4:33 PM
To: Hartman, Pamela; Bloisa, Peggy
Subject: FW: SSFL COC 9/20/11- confirm sample depth for SL-149-SA7-SB-0.0-0.1

Hi Peggy and Pam,
I think SL-149-SA7-SB-0.0-0.1 should be 0.0-1.0. Please confirm the sample depth.

Thanks!
Nicole

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Tuesday, September 20, 2011 7:27 PM
To: Bloisa, Peggy; Burgesser, Todd; 'Laura Rainey'; Nicole Maljovec; SA Env Entry; TWallbom@dtsc.ca.gov; Zakowski, Cherie
Subject: SSFL COC 9/20/11

Subsurface and surface sampling continued in SA7 today. Please see attached COC.

Thanks,

Pam

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 12, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/21/2011
Group Number: 1267611
SDG: DX138
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-131-SA7-SS-0.0-0.5 Soil	6414232
SL-137-SA7-SS-0.0-0.5 Soil	6414233
SL-138-SA7-SS-0.0-0.5 Soil	6414234
SL-005-SA7-SS-0.0-0.5 Soil	6414235
SL-006-SA7-SS-0.0-0.5 Soil	6414236
SL-043-SA7-SS-0.0-0.5 Soil	6414237
SL-046-SA7-SS-0.0-0.5 Soil	6414238
SL-047-SA7-SS-0.0-0.5 Soil	6414239
SL-049-SA7-SS-0.0-0.5 Soil	6414240
SL-050-SA7-SS-0.0-0.5 Soil	6414241
SL-050-SA7-SS-0.0-0.5MS Soil	6414242
SL-050-SA7-SS-0.0-0.5MSD Soil	6414243
SL-051-SA7-SS-0.0-0.5 Soil	6414244

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-131-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-131-SA7-SS-0.0-0.5

LLI Sample # SW 6414232
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:10

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3810 SDG#: DX138-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.72	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-131-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-131-SA7-SS-0.0-0.5

LLI Sample # SW 6414232
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:10

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3810 SDG#: DX138-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0665	U	0.0665	0.969	1
11031	12378-PeCDD	40321-76-4	0.135	J	0.0490	4.84	1
11031	123478-HxCDD	39227-28-6	0.236	J	0.0643	4.84	1
11031	123678-HxCDD	57653-85-7	0.606	J	0.0627	4.84	1
11031	123789-HxCDD	19408-74-3	0.435	JB	0.0609	4.84	1
11031	1234678-HpCDD	35822-46-9	12.7	B	0.0699	4.84	1
11031	OCDD	3268-87-9	124	B	0.0721	9.69	1
11031	2378-TCDF	51207-31-9	0.0820	J	0.0773	0.969	1
11031	12378-PeCDF	57117-41-6	0.0723	JQ	0.0391	4.84	1
11031	23478-PeCDF	57117-31-4	0.236	JB	0.0407	4.84	1
11031	123478-HxCDF	70648-26-9	0.291	JB	0.0414	4.84	1
11031	123678-HxCDF	57117-44-9	0.138	JBQ	0.0343	4.84	1
11031	123789-HxCDF	72918-21-9	0.0476	U	0.0476	4.84	1
11031	234678-HxCDF	60851-34-5	0.230	JBQ	0.0355	4.84	1
11031	1234678-HpCDF	67562-39-4	2.07	JB	0.0260	4.84	1
11031	1234789-HpCDF	55673-89-7	0.208	JB	0.0579	4.84	1
11031	OCDF	39001-02-0	5.09	JB	0.0780	9.69	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	100	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	60	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-131-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-131-SA7-SS-0.0-0.5

LLI Sample # SW 6414232
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:10

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3810 SDG#: DX138-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-131-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-131-SA7-SS-0.0-0.5

LLI Sample # SW 6414232
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:10

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3810 SDG#: DX138-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11272001	10/02/2011 13:00	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11272001	09/29/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11270162402A	09/27/2011 21:20	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-137-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA7-SS-0.0-0.5

LLI Sample # SW 6414233
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 13:45

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3811 SDG#: DX138-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.60	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-137-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA7-SS-0.0-0.5

LLI Sample # SW 6414233
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 13:45

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3811 SDG#: DX138-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0919 U	0.0919	1.00	1
11031	12378-PeCDD	40321-76-4	5.39	0.170	5.02	1
11031	123478-HxCDD	39227-28-6	11.1	0.175	5.02	1
11031	123678-HxCDD	57653-85-7	40.0	0.154	5.02	1
11031	123789-HxCDD	19408-74-3	21.4 B	0.161	5.02	1
11031	1234678-HpCDD	35822-46-9	1,030 B	0.433	5.02	1
11031	OCDD	3268-87-9	10,700 EB	0.358	10.0	1
11031	2378-TCDF	51207-31-9	0.631 J	0.144	1.00	1
11031	12378-PeCDF	57117-41-6	1.44 J	0.101	5.02	1
11031	23478-PeCDF	57117-31-4	2.32 JB	0.0976	5.02	1
11031	123478-HxCDF	70648-26-9	5.27 B	0.122	5.02	1
11031	123678-HxCDF	57117-44-9	6.07 B	0.111	5.02	1
11031	123789-HxCDF	72918-21-9	1.35 JB	0.131	5.02	1
11031	234678-HxCDF	60851-34-5	11.1 B	0.123	5.02	1
11031	1234678-HpCDF	67562-39-4	126 B	0.107	5.02	1
11031	1234789-HpCDF	55673-89-7	13.6 B	0.172	5.02	1
11031	OCDF	39001-02-0	270 B	0.0951	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	92	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	94	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	70	26 - 138

*=This limit was used in the evaluation of the final result

Sample Description: **SL-137-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA7-SS-0.0-0.5

LLI Sample # SW 6414233
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 13:45

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3811 SDG#: DX138-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-OCDF	75	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-137-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA7-SS-0.0-0.5

LLI Sample # SW 6414233
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 13:45

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3811 SDG#: DX138-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11272001	10/02/2011 13:56	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11272001	09/29/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11270162402A	09/27/2011 21:20	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-138-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA7-SS-0.0-0.5

LLI Sample # SW 6414234
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:30

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3812 SDG#: DX138-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	18.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-138-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA7-SS-0.0-0.5

LLI Sample # SW 6414234
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:30

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3812 SDG#: DX138-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.632 J	0.107	1.21	1
11031	12378-PeCDD	40321-76-4	7.71 Q	0.244	6.07	1
11031	123478-HxCDD	39227-28-6	19.8	0.261	6.07	1
11031	123678-HxCDD	57653-85-7	73.4	0.248	6.07	1
11031	123789-HxCDD	19408-74-3	40.9 B	0.225	6.07	1
11031	1234678-HpCDD	35822-46-9	1,970 B	0.497	6.07	1
11031	OCDD	3268-87-9	17,400 EB	0.491	12.1	1
11031	2378-TCDF	51207-31-9	0.682 J	0.143	1.21	1
11031	12378-PeCDF	57117-41-6	1.58 J	0.0996	6.07	1
11031	23478-PeCDF	57117-31-4	2.73 JB	0.0871	6.07	1
11031	123478-HxCDF	70648-26-9	6.67 B	0.152	6.07	1
11031	123678-HxCDF	57117-44-9	7.00 B	0.146	6.07	1
11031	123789-HxCDF	72918-21-9	1.80 JB	0.159	6.07	1
11031	234678-HxCDF	60851-34-5	13.0 B	0.148	6.07	1
11031	1234678-HpCDF	67562-39-4	211 B	0.147	6.07	1
11031	1234789-HpCDF	55673-89-7	17.0 B	0.199	6.07	1
11031	OCDF	39001-02-0	507 B	0.131	12.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	93	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	82	28 - 143

*=This limit was used in the evaluation of the final result

Sample Description: **SL-138-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA7-SS-0.0-0.5

LLI Sample # SW 6414234
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:30

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3812 SDG#: DX138-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	79	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-138-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA7-SS-0.0-0.5

LLI Sample # SW 6414234
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/19/2011 14:30

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3812 SDG#: DX138-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11272001	10/02/2011 14:53	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11272001	09/29/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11270162402A	09/27/2011 21:20	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-005-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA7-SS-0.0-0.5

LLI Sample # SW 6414235
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:05

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3813 SDG#: DX138-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%		%	%	
11625	Moisture Content by 160.3	n.a.	0.50	U	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA7-SS-0.0-0.5

LLI Sample # SW 6414235
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:05

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3813 SDG#: DX138-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0640	U	0.0640	0.966	1
11031	12378-PeCDD	40321-76-4	0.544	J	0.0657	4.83	1
11031	123478-HxCDD	39227-28-6	0.830	J	0.0782	4.83	1
11031	123678-HxCDD	57653-85-7	2.26	J	0.0782	4.83	1
11031	123789-HxCDD	19408-74-3	1.66	JB	0.0670	4.83	1
11031	1234678-HpCDD	35822-46-9	52.4	B	0.127	4.83	1
11031	OCDD	3268-87-9	533	B	0.132	9.66	1
11031	2378-TCDF	51207-31-9	0.0682	U	0.0682	0.966	1
11031	12378-PeCDF	57117-41-6	0.143	JQ	0.0446	4.83	1
11031	23478-PeCDF	57117-31-4	0.299	JB	0.0403	4.83	1
11031	123478-HxCDF	70648-26-9	0.554	JB	0.0467	4.83	1
11031	123678-HxCDF	57117-44-9	0.310	JB	0.0457	4.83	1
11031	123789-HxCDF	72918-21-9	0.115	JB	0.0448	4.83	1
11031	234678-HxCDF	60851-34-5	0.377	JB	0.0422	4.83	1
11031	1234678-HpCDF	67562-39-4	6.24	B	0.0473	4.83	1
11031	1234789-HpCDF	55673-89-7	0.354	JBQ	0.0612	4.83	1
11031	OCDF	39001-02-0	14.5	B	0.0758	9.66	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	74	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-005-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA7-SS-0.0-0.5

LLI Sample # SW 6414235
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:05

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3813 SDG#: DX138-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-005-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA7-SS-0.0-0.5

LLI Sample # SW 6414235
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:05

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3813 SDG#: DX138-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11272001	10/02/2011 15:49	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11272001	09/29/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11270162402A	09/27/2011 21:20	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-006-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA7-SS-0.0-0.5

LLI Sample # SW 6414236
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 10:40

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3814 SDG#: DX138-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.58	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-006-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA7-SS-0.0-0.5

LLI Sample # SW 6414236
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 10:40

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3814 SDG#: DX138-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0700	U	0.0700	0.982	1
11031	12378-PeCDD	40321-76-4	0.295	J	0.0530	4.91	1
11031	123478-HxCDD	39227-28-6	0.380	J	0.0618	4.91	1
11031	123678-HxCDD	57653-85-7	0.944	J	0.0612	4.91	1
11031	123789-HxCDD	19408-74-3	0.790	JB	0.0584	4.91	1
11031	1234678-HpCDD	35822-46-9	23.0	B	0.0987	4.91	1
11031	OCDD	3268-87-9	215	B	0.100	9.82	1
11031	2378-TCDF	51207-31-9	0.0976	J	0.0849	0.982	1
11031	12378-PeCDF	57117-41-6	0.294	J	0.0463	4.91	1
11031	23478-PeCDF	57117-31-4	0.375	JB	0.0453	4.91	1
11031	123478-HxCDF	70648-26-9	0.428	JB	0.0533	4.91	1
11031	123678-HxCDF	57117-44-9	0.288	JB	0.0495	4.91	1
11031	123789-HxCDF	72918-21-9	0.0969	JBQ	0.0562	4.91	1
11031	234678-HxCDF	60851-34-5	0.266	JB	0.0500	4.91	1
11031	1234678-HpCDF	67562-39-4	3.08	JB	0.0406	4.91	1
11031	1234789-HpCDF	55673-89-7	0.288	JB	0.0572	4.91	1
11031	OCDF	39001-02-0	6.74	JB	0.0640	9.82	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	75	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-006-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA7-SS-0.0-0.5

LLI Sample # SW 6414236
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 10:40

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3814 SDG#: DX138-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-006-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA7-SS-0.0-0.5

LLI Sample # SW 6414236
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 10:40

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3814 SDG#: DX138-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11272001	10/02/2011 16:46	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11272001	09/29/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11270162402A	09/27/2011 21:20	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-043-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-043-SA7-SS-0.0-0.5

LLI Sample # SW 6414237
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 13:55

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3815 SDG#: DX138-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%		%	%	
11625	Moisture Content by 160.3	n.a.	0.50	U	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-043-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA7-SS-0.0-0.5

LLI Sample # SW 6414237
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 13:55

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3815 SDG#: DX138-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.130	J	0.122	0.977	1
11031	12378-PeCDD	40321-76-4	0.272	JQ	0.0899	4.88	1
11031	123478-HxCDD	39227-28-6	0.284	JQ	0.0969	4.88	1
11031	123678-HxCDD	57653-85-7	0.994	JQ	0.100	4.88	1
11031	123789-HxCDD	19408-74-3	0.853	JB	0.0932	4.88	1
11031	1234678-HpCDD	35822-46-9	21.5	B	0.143	4.88	1
11031	OCDD	3268-87-9	280	B	0.158	9.77	1
11031	2378-TCDF	51207-31-9	0.104	U	0.104	0.977	1
11031	12378-PeCDF	57117-41-6	0.150	JQ	0.0538	4.88	1
11031	23478-PeCDF	57117-31-4	0.196	JBQ	0.0568	4.88	1
11031	123478-HxCDF	70648-26-9	0.390	JB	0.0708	4.88	1
11031	123678-HxCDF	57117-44-9	0.397	JBQ	0.0557	4.88	1
11031	123789-HxCDF	72918-21-9	0.224	JBQ	0.0852	4.88	1
11031	234678-HxCDF	60851-34-5	0.326	JBQ	0.0643	4.88	1
11031	1234678-HpCDF	67562-39-4	4.13	JB	0.0411	4.88	1
11031	1234789-HpCDF	55673-89-7	0.454	JB	0.0918	4.88	1
11031	OCDF	39001-02-0	9.67	JB	0.155	9.77	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	47	25 - 164
13C12-12378-PeCDD	48	25 - 181
13C12-123478-HxCDD	49	32 - 141
13C12-123678-HxCDD	51	28 - 130
13C12-123789-HxCDD	50	28 - 130
13C12-1234678-HpCDD	54	23 - 140
13C12-OCDD	54	17 - 157
13C12-2378-TCDF	45	24 - 169
13C12-12378-PeCDF	52	24 - 185
13C12-23478-PeCDF	44	21 - 178
13C12-123478-HxCDF	39	26 - 152
13C12-123678-HxCDF	48	26 - 123
13C12-234678-HxCDF	42	28 - 136
13C12-123789-HxCDF	39	29 - 147
13C12-1234678-HpCDF	63	28 - 143
13C12-1234789-HpCDF	36	26 - 138
13C12-OCDF	34	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-043-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-043-SA7-SS-0.0-0.5

LLI Sample # SW 6414237
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 13:55

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3815 SDG#: DX138-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-043-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-043-SA7-SS-0.0-0.5

LLI Sample # SW 6414237
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 13:55

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3815 SDG#: DX138-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11272001	10/02/2011 20:45	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11272001	09/29/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11270162402A	09/27/2011 21:20	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-046-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA7-SS-0.0-0.5

LLI Sample # SW 6414238
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 10:15

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3816 SDG#: DX138-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.93	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-046-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA7-SS-0.0-0.5

LLI Sample # SW 6414238
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 10:15

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3816 SDG#: DX138-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0931	U	0.0931	0.980	1
11031	12378-PeCDD	40321-76-4	0.204	JQ	0.0657	4.90	1
11031	123478-HxCDD	39227-28-6	0.281	J	0.0678	4.90	1
11031	123678-HxCDD	57653-85-7	0.590	J	0.0627	4.90	1
11031	123789-HxCDD	19408-74-3	0.512	JB	0.0583	4.90	1
11031	1234678-HpCDD	35822-46-9	15.0	B	0.101	4.90	1
11031	OCDD	3268-87-9	141	B	0.0971	9.80	1
11031	2378-TCDF	51207-31-9	0.0799	U	0.0799	0.980	1
11031	12378-PeCDF	57117-41-6	0.0592	J	0.0462	4.90	1
11031	23478-PeCDF	57117-31-4	0.0445	U	0.0445	4.90	1
11031	123478-HxCDF	70648-26-9	0.376	JBQ	0.0599	4.90	1
11031	123678-HxCDF	57117-44-9	0.129	JBQ	0.0528	4.90	1
11031	123789-HxCDF	72918-21-9	0.0700	U	0.0700	4.90	1
11031	234678-HxCDF	60851-34-5	0.168	JBQ	0.0537	4.90	1
11031	1234678-HpCDF	67562-39-4	2.82	JB	0.0384	4.90	1
11031	1234789-HpCDF	55673-89-7	0.236	JB	0.0667	4.90	1
11031	OCDF	39001-02-0	7.78	JB	0.0943	9.80	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	66	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-046-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA7-SS-0.0-0.5

LLI Sample # SW 6414238
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 10:15

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3816 SDG#: DX138-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-046-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA7-SS-0.0-0.5

LLI Sample # SW 6414238
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 10:15

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3816 SDG#: DX138-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11272001	10/02/2011 21:42	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11272001	09/29/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11284162401A	10/11/2011 18:27	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-047-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-047-SA7-SS-0.0-0.5

LLI Sample # SW 6414239
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:00

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3817 SDG#: DX138-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-047-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-047-SA7-SS-0.0-0.5

LLI Sample # SW 6414239
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:00

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3817 SDG#: DX138-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.127	JQ	0.0593	0.989	1
11031	12378-PeCDD	40321-76-4	0.778	J	0.0629	4.95	1
11031	123478-HxCDD	39227-28-6	1.31	J	0.0774	4.95	1
11031	123678-HxCDD	57653-85-7	3.61	J	0.0779	4.95	1
11031	123789-HxCDD	19408-74-3	2.63	JB	0.0729	4.95	1
11031	1234678-HpCDD	35822-46-9	92.1	B	0.136	4.95	1
11031	OCDD	3268-87-9	1,000	B	0.146	9.89	1
11031	2378-TCDF	51207-31-9	0.0568	U	0.0568	0.989	1
11031	12378-PeCDF	57117-41-6	0.262	J	0.0408	4.95	1
11031	23478-PeCDF	57117-31-4	0.266	JB	0.0397	4.95	1
11031	123478-HxCDF	70648-26-9	0.669	JB	0.0577	4.95	1
11031	123678-HxCDF	57117-44-9	0.585	JB	0.0513	4.95	1
11031	123789-HxCDF	72918-21-9	0.180	JBQ	0.0666	4.95	1
11031	234678-HxCDF	60851-34-5	0.934	JB	0.0557	4.95	1
11031	1234678-HpCDF	67562-39-4	13.2	B	0.0543	4.95	1
11031	1234789-HpCDF	55673-89-7	1.17	JBQ	0.0893	4.95	1
11031	OCDF	39001-02-0	31.1	B	0.0660	9.89	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	91	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	100	28 - 130
13C12-123789-HxCDD	104	28 - 130
13C12-1234678-HpCDD	100	23 - 140
13C12-OCDD	107	17 - 157
13C12-2378-TCDF	90	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	90	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	107	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	84	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-047-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-047-SA7-SS-0.0-0.5

LLI Sample # SW 6414239
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:00

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3817 SDG#: DX138-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-047-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-047-SA7-SS-0.0-0.5

LLI Sample # SW 6414239
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:00

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3817 SDG#: DX138-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11272001	10/02/2011 22:39	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11272001	09/29/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11284162401A	10/11/2011 18:27	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-049-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA7-SS-0.0-0.5

LLI Sample # SW 6414240
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:55

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3818 SDG#: DX138-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-049-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA7-SS-0.0-0.5

LLI Sample # SW 6414240
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:55

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3818 SDG#: DX138-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.213	J	0.0657	0.977	1
11031	12378-PeCDD	40321-76-4	1.45	J	0.0961	4.89	1
11031	123478-HxCDD	39227-28-6	2.95	J	0.122	4.89	1
11031	123678-HxCDD	57653-85-7	11.1		0.117	4.89	1
11031	123789-HxCDD	19408-74-3	6.36	B	0.103	4.89	1
11031	1234678-HpCDD	35822-46-9	280	B	0.209	4.89	1
11031	OCDD	3268-87-9	2,940	B	0.250	9.77	1
11031	2378-TCDF	51207-31-9	0.234	J	0.0743	0.977	1
11031	12378-PeCDF	57117-41-6	0.743	JQ	0.0670	4.89	1
11031	23478-PeCDF	57117-31-4	0.645	JB	0.0608	4.89	1
11031	123478-HxCDF	70648-26-9	1.57	JB	0.0726	4.89	1
11031	123678-HxCDF	57117-44-9	1.70	JB	0.0698	4.89	1
11031	123789-HxCDF	72918-21-9	0.450	JB	0.0758	4.89	1
11031	234678-HxCDF	60851-34-5	2.94	JB	0.0700	4.89	1
11031	1234678-HpCDF	67562-39-4	40.3	B	0.0706	4.89	1
11031	1234789-HpCDF	55673-89-7	3.71	JB	0.0991	4.89	1
11031	OCDF	39001-02-0	92.6	B	0.0754	9.77	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	93	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	77	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-049-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA7-SS-0.0-0.5

LLI Sample # SW 6414240
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:55

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3818 SDG#: DX138-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-049-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA7-SS-0.0-0.5

LLI Sample # SW 6414240
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:55

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3818 SDG#: DX138-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11272001	10/02/2011 23:35	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11272001	09/29/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11284162401A	10/11/2011 18:27	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-050-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414241
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3819 SDG#: DX138-19BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-050-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414241
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3819 SDG#: DX138-19BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.236	JQ	0.105	1.02	1
11031	12378-PeCDD	40321-76-4	0.799	J	0.0980	5.09	1
11031	123478-HxCDD	39227-28-6	1.11	J	0.148	5.09	1
11031	123678-HxCDD	57653-85-7	4.72	J	0.152	5.09	1
11031	123789-HxCDD	19408-74-3	2.71	JB	0.140	5.09	1
11031	1234678-HpCDD	35822-46-9	153	B	0.251	5.09	1
11031	OCDD	3268-87-9	1,560	B	0.338	10.2	1
11031	2378-TCDF	51207-31-9	0.404	J	0.176	1.02	1
11031	12378-PeCDF	57117-41-6	0.387	JQ	0.113	5.09	1
11031	23478-PeCDF	57117-31-4	1.39	JB	0.101	5.09	1
11031	123478-HxCDF	70648-26-9	1.24	JB	0.103	5.09	1
11031	123678-HxCDF	57117-44-9	0.699	JB	0.0953	5.09	1
11031	123789-HxCDF	72918-21-9	0.364	JB	0.0919	5.09	1
11031	234678-HxCDF	60851-34-5	0.941	JB	0.0847	5.09	1
11031	1234678-HpCDF	67562-39-4	14.9	B	0.101	5.09	1
11031	1234789-HpCDF	55673-89-7	1.46	JB	0.116	5.09	1
11031	OCDF	39001-02-0	35.7	B	0.125	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	83	26 - 138
13C12-OCDF	82	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-050-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414241
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3819 SDG#: DX138-19BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-050-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414241
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3819 SDG#: DX138-19BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11272001	10/03/2011 00:32	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11272001	09/29/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11284162401A	10/11/2011 18:27	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-050-SA7-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414242
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3819 SDG#: DX138-19MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-050-SA7-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414242
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3819 SDG#: DX138-19MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.9		0.837	1.00	1
11031	12378-PeCDD	40321-76-4	108		0.685	5.02	1
11031	123478-HxCDD	39227-28-6	99.2		0.713	5.02	1
11031	123678-HxCDD	57653-85-7	105		0.722	5.02	1
11031	123789-HxCDD	19408-74-3	104	B	0.716	5.02	1
11031	1234678-HpCDD	35822-46-9	258	B	1.08	5.02	1
11031	OCDD	3268-87-9	1,850	B	1.51	10.0	1
11031	2378-TCDF	51207-31-9	20.9		0.744	1.00	1
11031	12378-PeCDF	57117-41-6	101		0.525	5.02	1
11031	23478-PeCDF	57117-31-4	95.8	B	0.472	5.02	1
11031	123478-HxCDF	70648-26-9	104	B	0.771	5.02	1
11031	123678-HxCDF	57117-44-9	99.2	B	0.643	5.02	1
11031	123789-HxCDF	72918-21-9	100	B	0.762	5.02	1
11031	234678-HxCDF	60851-34-5	101	B	0.630	5.02	1
11031	1234678-HpCDF	67562-39-4	117	B	0.665	5.02	1
11031	1234789-HpCDF	55673-89-7	103	B	0.882	5.02	1
11031	OCDF	39001-02-0	236	B	0.872	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	73	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-050-SA7-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414242
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X3819 SDG#: DX138-19MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-050-SA7-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414242
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3819 SDG#: DX138-19MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11272001	10/03/2011 01:28	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11272001	09/29/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11284162401A	10/11/2011 18:27	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-050-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414243
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3819 SDG#: DX138-19MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-050-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414243
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3819 SDG#: DX138-19MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	20.6		0.184	0.985	1
11031	12378-PeCDD	40321-76-4	102		0.183	4.92	1
11031	123478-HxCDD	39227-28-6	100		0.210	4.92	1
11031	123678-HxCDD	57653-85-7	99.3		0.202	4.92	1
11031	123789-HxCDD	19408-74-3	103	B	0.195	4.92	1
11031	1234678-HpCDD	35822-46-9	255	B	0.309	4.92	1
11031	OCDD	3268-87-9	1,720	B	0.393	9.85	1
11031	2378-TCDF	51207-31-9	19.0		0.232	0.985	1
11031	12378-PeCDF	57117-41-6	101		0.159	4.92	1
11031	23478-PeCDF	57117-31-4	95.3	B	0.144	4.92	1
11031	123478-HxCDF	70648-26-9	94.8	B	0.178	4.92	1
11031	123678-HxCDF	57117-44-9	97.6	B	0.177	4.92	1
11031	123789-HxCDF	72918-21-9	96.9	B	0.196	4.92	1
11031	234678-HxCDF	60851-34-5	99.3	B	0.167	4.92	1
11031	1234678-HpCDF	67562-39-4	112	B	0.175	4.92	1
11031	1234789-HpCDF	55673-89-7	96.2	B	0.208	4.92	1
11031	OCDF	39001-02-0	227	B	0.213	9.85	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	76	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-050-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414243
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3819 SDG#: DX138-19MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-050-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-050-SA7-SS-0.0-0.5

LLI Sample # SW 6414243
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:30

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3819 SDG#: DX138-19MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11272001	10/03/2011 02:25	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11272001	09/29/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11284162401A	10/11/2011 18:27	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-051-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA7-SS-0.0-0.5

LLI Sample # SW 6414244
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:45

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3820 SDG#: DX138-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.87	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-051-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA7-SS-0.0-0.5

LLI Sample # SW 6414244
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:45

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3820 SDG#: DX138-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.106	JQ	0.0356	0.970	1
11031	12378-PeCDD	40321-76-4	0.616	J	0.0391	4.85	1
11031	123478-HxCDD	39227-28-6	0.724	J	0.0516	4.85	1
11031	123678-HxCDD	57653-85-7	2.15	J	0.0501	4.85	1
11031	123789-HxCDD	19408-74-3	1.55	JB	0.0474	4.85	1
11031	1234678-HpCDD	35822-46-9	58.2	B	0.0778	4.85	1
11031	OCDD	3268-87-9	650	B	0.0893	9.70	1
11031	2378-TCDF	51207-31-9	0.392	J	0.0654	0.970	1
11031	12378-PeCDF	57117-41-6	0.161	J	0.0382	4.85	1
11031	23478-PeCDF	57117-31-4	0.0347	U	0.0347	4.85	1
11031	123478-HxCDF	70648-26-9	0.523	JB	0.0604	4.85	1
11031	123678-HxCDF	57117-44-9	0.335	JB	0.0507	4.85	1
11031	123789-HxCDF	72918-21-9	0.183	JB	0.0396	4.85	1
11031	234678-HxCDF	60851-34-5	0.428	JBQ	0.0358	4.85	1
11031	1234678-HpCDF	67562-39-4	7.09	B	0.0561	4.85	1
11031	1234789-HpCDF	55673-89-7	0.719	JB	0.0417	4.85	1
11031	OCDF	39001-02-0	18.3	B	0.0732	9.70	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	57	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	42	26 - 152
13C12-123678-HxCDF	53	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	51	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	51	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-051-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA7-SS-0.0-0.5

LLI Sample # SW 6414244
LLI Group # 1267611
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:45

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3820 SDG#: DX138-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-051-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-051-SA7-SS-0.0-0.5

LLI Sample # SW 6414244
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Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3820 SDG#: DX138-20*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11272001	10/04/2011 11:55	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11272001	09/29/2011 13:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11284162401A	10/11/2011 18:27	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267611
Reported: 10/12/11 at 07:41 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11270162402A	Sample number(s): 6414232-6414237								
Moisture Content by 160.3					100		80-120		
Batch number: 11284162401A	Sample number(s): 6414238-6414244								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11272001	Sample number(s): 6414232-6414244								
2378-TCDD	0.0683 U	0.0683	1.00	ng/kg	102		67-158		
12378-PeCDD	0.0441 U	0.0441	5.00	ng/kg	104		70-142		
123478-HxCDD	0.0355 U	0.0355	5.00	ng/kg	101		70-164		
123678-HxCDD	0.0356 U	0.0356	5.00	ng/kg	97		76-134		
123789-HxCDD	0.0741 J	0.0367	5.00	ng/kg	99		64-162		
1234678-HpCDD	0.240 J	0.0469	5.00	ng/kg	96		70-140		
OCDD	0.426 J	0.0419	10.0	ng/kg	96		78-144		
2378-TCDF	0.0614 U	0.0614	1.00	ng/kg	98		75-158		
12378-PeCDF	0.0265 U	0.0265	5.00	ng/kg	95		80-134		
23478-PeCDF	0.0526 J	0.0280	5.00	ng/kg	96		68-160		
123478-HxCDF	0.0514 J	0.0304	5.00	ng/kg	95		72-134		
123678-HxCDF	0.0478 J	0.0247	5.00	ng/kg	95		84-130		
123789-HxCDF	0.0524 J	0.0332	5.00	ng/kg	95		78-130		
234678-HxCDF	0.0664 J	0.0257	5.00	ng/kg	95		70-156		
1234678-HpCDF	0.133 J	0.0157	5.00	ng/kg	92		82-122		
1234789-HpCDF	0.0453 J	0.0347	5.00	ng/kg	96		78-138		
OCDF	0.235 J	0.0840	10.0	ng/kg	95		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11270162402A	Sample number(s): 6414232-6414237					BKG: P414146			
Moisture Content by 160.3						18.5	19.9	8	20
Batch number: 11284162401A	Sample number(s): 6414238-6414244					BKG: P414153			
Moisture Content by 160.3						1.9	1.9	3 (1)	20
Batch number: 11272001	Sample number(s): 6414232-6414244					UNSPK: 6414241			

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267611
Reported: 10/12/11 at 07:41 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDD	108	104	67-158	6	25				
12378-PeCDD	107	102	70-142	6	25				
123478-HxCDD	98	101	70-164	1	25				
123678-HxCDD	100	96	76-134	5	25				
123789-HxCDD	101	102	64-162	1	25				
1234678-HpCDD	105	104	70-140	1	25				
OCDD	143 (2)	80 (2)	78-144	7	25				
2378-TCDF	102	94	75-158	10	25				
12378-PeCDF	100	102	80-134	0	25				
23478-PeCDF	94	95	68-160	1	25				
123478-HxCDF	102	95	72-134	9	25				
123678-HxCDF	98	98	84-130	2	25				
123789-HxCDF	100	98	78-130	3	25				
234678-HxCDF	100	100	70-156	2	25				
1234678-HpCDF	102	98	82-122	5	25				
1234789-HpCDF	101	96	78-138	7	25				
OCDF	100	97	63-170	4	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11272001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6414232	71	66	59	73	67	62
6414233	78	72	69	75	71	80
6414234	80	75	73	75	74	82
6414235	78	73	71	71	72	81
6414236	77	74	71	75	73	78
6414237	47	44	39	48	42	39
6414238	77	70	64	75	71	69
6414239	91	84	81	90	83	85
6414240	79	75	74	77	75	84
6414241	83	78	67	72	79	86
6414242	67	70	55	65	70	73
6414243	77	79	71	73	75	79
6414244	80	77	42	53	80	81
Blank	72	62	55	69	65	60
MS	67	70	55	65	70	73
MSD	77	79	71	73	75	79
OPR	67	58	57	69	63	57
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6414232	100	58	60	73	78	81

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267611
Reported: 10/12/11 at 07:41 AM

Surrogate Quality Control

6414233	89	70	75	76	78	92
6414234	82	75	79	76	78	83
6414235	76	72	74	73	78	83
6414236	86	72	75	75	79	84
6414237	63	36	34	48	49	51
6414238	88	65	66	75	79	88
6414239	107	80	84	87	90	100
6414240	89	74	77	77	80	86
6414241	79	83	82	80	86	86
6414242	69	71	73	66	72	79
6414243	77	78	76	78	80	85
6414244	51	70	51	77	79	81
Blank	95	55	50	75	82	88
MS	69	71	73	66	72	79
MSD	77	78	76	78	80	85
OPR	90	58	52	69	79	81
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6414232	78	88	92	66	78
6414233	87	88	94	77	79
6414234	88	86	93	79	77
6414235	91	82	82	79	74
6414236	86	84	87	78	78
6414237	50	54	54	45	52
6414238	90	84	87	75	78
6414239	104	100	107	90	92
6414240	90	89	93	81	79
6414241	89	92	88	83	78
6414242	80	79	80	70	69
6414243	85	84	83	79	78
6414244	82	71	57	83	74
Blank	86	89	83	58	71
MS	80	79	80	70	69
MSD	85	84	83	79	78
OPR	79	86	82	58	67
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1367611 sample# 6414232-44

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetrazin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020A/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonol EPA 8270	Other Instructions and Notes
SL-131-SA7-SS-0.0-0.5	09.19.11	1410	SOIL	NONE	1-SS Sleeve			X	X																		
SL-131-SA7-SS-0.0-0.5	09.19.11	1410	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-137-SA7-SS-0.0-0.5	09.19.11	1345	SOIL	NONE	1-SS Sleeve			X	X																		
SL-137-SA7-SS-0.0-0.5	09.19.11	1345	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-138-SA7-SS-0.0-0.5	09.19.11	1430	SOIL	NONE	1-SS Sleeve			X	X																		
SL-138-SA7-SS-0.0-0.5	09.19.11	1430	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-005-SA7-SS-0.0-0.5	09.20.11	1105	SOIL	NONE	1-SS Sleeve			X	X																		
SL-005-SA7-SS-0.0-0.5	09.20.11	1105	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-006-SA7-SS-0.0-0.5	09.20.11	1040	SOIL	NONE	1-SS Sleeve			X	X																		
SL-006-SA7-SS-0.0-0.5	09.20.11	1040	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-043-SA7-SS-0.0-0.5	09.20.11	1355	SOIL	NONE	1-SS Sleeve			X	X																		
SL-043-SA7-SS-0.0-0.5	09.20.11	1355	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X			X	X	X	X	
SL-046-SA7-SS-0.0-0.5	09.20.11	1015	SOIL	NONE	1-SS Sleeve			X	X																		
SL-046-SA7-SS-0.0-0.5	09.20.11	1015	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-047-SA7-SS-0.0-0.5	09.20.11	0900	SOIL	NONE	1-SS Sleeve			X	X																		
SL-047-SA7-SS-0.0-0.5	09.20.11	0900	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-049-SA7-SS-0.0-0.5	09.20.11	1155	SOIL	NONE	1-SS Sleeve			X	X																		
SL-049-SA7-SS-0.0-0.5	09.20.11	1155	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-050-SA7-SS-0.0-0.5MS	09.20.11	0730	SOIL	NONE	2-SS Sleeve			X	X																		MS/MSD
SL-050-SA7-SS-0.0-0.5MS	09.20.11	0730	SOIL	NONE	4-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		MS/MSD
SL-051-SA7-SS-0.0-0.5	09.20.11	0945	SOIL	NONE	1-SS Sleeve			X	X																		
SL-051-SA7-SS-0.0-0.5	09.20.11	0945	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-085-SA7-SS-0.0-0.5	09.20.11	1425	SOIL	NONE	1-SS Sleeve			X	X																		
SL-085-SA7-SS-0.0-0.5	09.20.11	1425	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	
SL-125-SA7-SS-0.0-0.5	09.20.11	1520	SOIL	NONE	1-SS Sleeve			X	X																		
SL-125-SA7-SS-0.0-0.5	09.20.11	1520	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X														
SL-129-SA7-SS-0.0-0.5	09.20.11	1135	SOIL	NONE	1-SS Sleeve			X	X																		
SL-129-SA7-SS-0.0-0.5	09.20.11	1135	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-134-SA7-SS-0.0-0.5	09.20.11	0925	SOIL	NONE	1-SS Sleeve			X	X																		
SL-134-SA7-SS-0.0-0.5	09.20.11	0925	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-135-SA7-SS-0.0-0.5	09.20.11	0810	SOIL	NONE	1-SS Sleeve			X	X																		
SL-135-SA7-SS-0.0-0.5	09.20.11	0810	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-173-SA7-SS-0.0-0.5	09.20.11	1445	SOIL	NONE	1-SS Sleeve			X	X																		
SL-173-SA7-SS-0.0-0.5	09.20.11	1445	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	
DUP03-SA7-QC-092011	09.20.11	0735	SOIL	NONE	1-SS Sleeve			X	X																		
DUP03-SA7-QC-092011	09.20.11	0735	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	09/20/2011 / 1600	LI 9/21/11 0900	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No(s)	
		8754 3341 0737,0748,0759,0760	

Nicole Maljovec

From: Nicole Maljovec
Sent: Wednesday, September 21, 2011 5:17 PM
To: 'Hartman, Pamela'
Subject: RE: SSFL COC 9/20/11- received extra samples

Oh, I should have thought of that! Ok, we'll enter the SL-022 jar under the already entered SL-022 (LLI# 6409796), and I'll have SL-136 entered for primary and secondary as well as pest and herbs since it's surface.

Thanks!

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Wednesday, September 21, 2011 4:50 PM
To: Nicole Maljovec
Subject: RE: SSFL COC 9/20/11- received extra samples

Hi Nicole,

SL-136 is all primary and secondary

SL-022 is an orphan from last week-it was sampled 9/16/11. I believe you guys received a jar and sleeve for it already, so hopefully that was enough for its analysis!

Sorry for the mistakes

Thanks,

Pam

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Wednesday, September 21, 2011 1:46 PM
To: Hartman, Pamela
Subject: FW: SSFL COC 9/20/11- received extra samples

Hi Pam,
We received two extra samples that weren't on the COC today. We have:

SL136-SA7-SS-0.0-0.5=one sleeve and 2 jars SL-022-SA7-SS-0.0-0.5= one jar

Do you have the sleeve for SL-022? And, what analyses should we enter for these?

Thanks!
Nicole

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Tuesday, September 20, 2011 7:27 PM
To: Bloisa, Peggy; Burgesser, Todd; 'Laura Rainey'; Nicole Maljovec; SA Env Entry; TWallbom@dtsc.ca.gov; Zakowski, Cherie
Subject: SSFL COC 9/20/11

Subsurface and surface sampling continued in SA7 today. Please see attached COC.

Thanks,

Pam

CONFIDENTIAL MATERIAL: This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If received in error,

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 12, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/21/2011
Group Number: 1267612
SDG: DX139
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-085-SA7-SS-0.0-0.5 Soil	6414245
SL-125-SA7-SS-0.0-0.5 Soil	6414246
SL-129-SA7-SS-0.0-0.5 Soil	6414247
SL-134-SA7-SS-0.0-0.5 Soil	6414248
SL-135-SA7-SS-0.0-0.5 Soil	6414249
SL-173-SA7-SS-0.0-0.5 Soil	6414250
DUP03-SA7-QC-092011 Soil	6414251
SL-136-SA7-SS-0.0-0.5 Soil	6414252
SL-058-SA7-SB-0.5-1.5 Soil	6414253
SL-059-SA7-SB-5.0-6.0 Soil	6414254
SL-149-SA7-SB-0.0-1.0 Soil	6414255
SL-150-SA7-SB-0.0-1.0 Soil	6414256
SL-154-SA7-SB-0.0-1.0 Soil	6414257
SL-174-SA7-SB-1.0-2.0 Soil	6414258

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-085-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-085-SA7-SS-0.0-0.5

LLI Sample # SW 6414245
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 14:25

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3901 SDG#: DX139-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-085-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-085-SA7-SS-0.0-0.5

LLI Sample # SW 6414245
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 14:25

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3901 SDG#: DX139-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0580	U	0.0580	0.991	1
11031	12378-PeCDD	40321-76-4	0.335	JQ	0.0666	4.96	1
11031	123478-HxCDD	39227-28-6	0.333	JQ	0.0719	4.96	1
11031	123678-HxCDD	57653-85-7	0.572	JQ	0.0702	4.96	1
11031	123789-HxCDD	19408-74-3	0.740	JBQ	0.0677	4.96	1
11031	1234678-HpCDD	35822-46-9	13.1	B	0.115	4.96	1
11031	OCDD	3268-87-9	136	B	0.150	9.91	1
11031	2378-TCDF	51207-31-9	0.0727	JQ	0.0518	0.991	1
11031	12378-PeCDF	57117-41-6	0.0789	JQ	0.0351	4.96	1
11031	23478-PeCDF	57117-31-4	0.221	JB	0.0335	4.96	1
11031	123478-HxCDF	70648-26-9	0.206	JQ	0.0509	4.96	1
11031	123678-HxCDF	57117-44-9	0.144	JQ	0.0432	4.96	1
11031	123789-HxCDF	72918-21-9	0.0824	JB	0.0533	4.96	1
11031	234678-HxCDF	60851-34-5	0.207	JB	0.0401	4.96	1
11031	1234678-HpCDF	67562-39-4	1.96	JB	0.0503	4.96	1
11031	1234789-HpCDF	55673-89-7	0.187	JBQ	0.0830	4.96	1
11031	OCDF	39001-02-0	4.72	JB	0.151	9.91	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	51	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-085-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-085-SA7-SS-0.0-0.5

LLI Sample # SW 6414245
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 14:25

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3901 SDG#: DX139-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-085-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-085-SA7-SS-0.0-0.5

LLI Sample # SW 6414245
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 14:25

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3901 SDG#: DX139-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11273001	10/04/2011 12:52	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11273001	09/30/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11270162402A	09/27/2011 21:20	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-125-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SS-0.0-0.5

LLI Sample # SW 6414246
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 15:20

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
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Chantilly VA 20151

X3902 SDG#: DX139-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.94	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-125-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SS-0.0-0.5

LLI Sample # SW 6414246
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 15:20

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3902 SDG#: DX139-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0625	U	0.0625	0.962	1
11031	12378-PeCDD	40321-76-4	0.227	JQ	0.0578	4.81	1
11031	123478-HxCDD	39227-28-6	0.246	J	0.0654	4.81	1
11031	123678-HxCDD	57653-85-7	0.972	J	0.0645	4.81	1
11031	123789-HxCDD	19408-74-3	0.623	JB	0.0641	4.81	1
11031	1234678-HpCDD	35822-46-9	27.4	B	0.104	4.81	1
11031	OCDD	3268-87-9	272	B	0.140	9.62	1
11031	2378-TCDF	51207-31-9	0.160	JQ	0.0697	0.962	1
11031	12378-PeCDF	57117-41-6	0.167	JQ	0.0404	4.81	1
11031	23478-PeCDF	57117-31-4	0.120	JBQ	0.0381	4.81	1
11031	123478-HxCDF	70648-26-9	0.355	JQ	0.0494	4.81	1
11031	123678-HxCDF	57117-44-9	0.257	J	0.0467	4.81	1
11031	123789-HxCDF	72918-21-9	0.147	JBQ	0.0510	4.81	1
11031	234678-HxCDF	60851-34-5	0.272	JB	0.0425	4.81	1
11031	1234678-HpCDF	67562-39-4	3.95	JB	0.0505	4.81	1
11031	1234789-HpCDF	55673-89-7	0.280	JB	0.0688	4.81	1
11031	OCDF	39001-02-0	7.32	JB	0.0978	9.62	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	61	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-125-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SS-0.0-0.5

LLI Sample # SW 6414246
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 15:20

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

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Chantilly VA 20151

X3902 SDG#: DX139-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-125-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SS-0.0-0.5

LLI Sample # SW 6414246
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 15:20

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X3902 SDG#: DX139-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11273001	10/04/2011 13:48	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11273001	09/30/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11270162402A	09/27/2011 21:20	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-129-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-129-SA7-SS-0.0-0.5

LLI Sample # SW 6414247
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:35

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3903 SDG#: DX139-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.71	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-129-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-129-SA7-SS-0.0-0.5

LLI Sample # SW 6414247
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:35

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3903 SDG#: DX139-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.122	JQ	0.0585	1.01	1
11031	12378-PeCDD	40321-76-4	0.310	JQ	0.0510	5.03	1
11031	123478-HxCDD	39227-28-6	0.554	J	0.0641	5.03	1
11031	123678-HxCDD	57653-85-7	1.58	J	0.0646	5.03	1
11031	123789-HxCDD	19408-74-3	1.26	JB	0.0628	5.03	1
11031	1234678-HpCDD	35822-46-9	43.6	B	0.103	5.03	1
11031	OCDD	3268-87-9	444	B	0.128	10.1	1
11031	2378-TCDF	51207-31-9	0.240	J	0.0705	1.01	1
11031	12378-PeCDF	57117-41-6	0.268	JQ	0.0455	5.03	1
11031	23478-PeCDF	57117-31-4	0.293	JB	0.0427	5.03	1
11031	123478-HxCDF	70648-26-9	0.466	J	0.0436	5.03	1
11031	123678-HxCDF	57117-44-9	0.356	JQ	0.0387	5.03	1
11031	123789-HxCDF	72918-21-9	0.130	JBQ	0.0456	5.03	1
11031	234678-HxCDF	60851-34-5	0.458	JB	0.0386	5.03	1
11031	1234678-HpCDF	67562-39-4	6.40	B	0.0431	5.03	1
11031	1234789-HpCDF	55673-89-7	0.593	JB	0.0665	5.03	1
11031	OCDF	39001-02-0	16.5	B	0.0770	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	61	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-129-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-129-SA7-SS-0.0-0.5

LLI Sample # SW 6414247
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:35

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3903 SDG#: DX139-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-129-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-129-SA7-SS-0.0-0.5

LLI Sample # SW 6414247
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:35

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3903 SDG#: DX139-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11273001	10/04/2011 14:45	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11273001	09/30/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11270162402A	09/27/2011 21:20	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-134-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-134-SA7-SS-0.0-0.5

LLI Sample # SW 6414248
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:25

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3904 SDG#: DX139-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-134-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-134-SA7-SS-0.0-0.5

LLI Sample # SW 6414248
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:25

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3904 SDG#: DX139-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0849	J	0.0630	1.00	1
11031	12378-PeCDD	40321-76-4	0.512	JQ	0.0590	5.02	1
11031	123478-HxCDD	39227-28-6	0.853	J	0.0693	5.02	1
11031	123678-HxCDD	57653-85-7	2.05	J	0.0679	5.02	1
11031	123789-HxCDD	19408-74-3	1.86	JB	0.0601	5.02	1
11031	1234678-HpCDD	35822-46-9	55.0	B	0.106	5.02	1
11031	OCDD	3268-87-9	578	B	0.114	10.0	1
11031	2378-TCDF	51207-31-9	0.0734	U	0.0734	1.00	1
11031	12378-PeCDF	57117-41-6	0.0764	JQ	0.0449	5.02	1
11031	23478-PeCDF	57117-31-4	0.270	JBQ	0.0438	5.02	1
11031	123478-HxCDF	70648-26-9	0.573	JQ	0.0497	5.02	1
11031	123678-HxCDF	57117-44-9	0.323	JQ	0.0453	5.02	1
11031	123789-HxCDF	72918-21-9	0.0423	U	0.0423	5.02	1
11031	234678-HxCDF	60851-34-5	0.435	JB	0.0407	5.02	1
11031	1234678-HpCDF	67562-39-4	6.79	B	0.0540	5.02	1
11031	1234789-HpCDF	55673-89-7	0.582	JBQ	0.0612	5.02	1
11031	OCDF	39001-02-0	15.5	B	0.0735	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	71	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-134-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-134-SA7-SS-0.0-0.5

LLI Sample # SW 6414248
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:25

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3904 SDG#: DX139-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-134-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-134-SA7-SS-0.0-0.5

LLI Sample # SW 6414248
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:25

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3904 SDG#: DX139-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11273001	10/04/2011 15:41	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11273001	09/30/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11284162401A	10/11/2011 18:27	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-135-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-135-SA7-SS-0.0-0.5

LLI Sample # SW 6414249
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 08:10

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3905 SDG#: DX139-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-135-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-135-SA7-SS-0.0-0.5

LLI Sample # SW 6414249
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 08:10

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3905 SDG#: DX139-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.130	JQ	0.0585	0.993	1
11031	12378-PeCDD	40321-76-4	1.16	J	0.0659	4.96	1
11031	123478-HxCDD	39227-28-6	2.01	J	0.0804	4.96	1
11031	123678-HxCDD	57653-85-7	7.41		0.0758	4.96	1
11031	123789-HxCDD	19408-74-3	4.33	JB	0.0746	4.96	1
11031	1234678-HpCDD	35822-46-9	253	B	0.167	4.96	1
11031	OCDD	3268-87-9	2,390	B	0.198	9.93	1
11031	2378-TCDF	51207-31-9	0.0926	U	0.0926	0.993	1
11031	12378-PeCDF	57117-41-6	0.390	J	0.0755	4.96	1
11031	23478-PeCDF	57117-31-4	1.11	JB	0.0668	4.96	1
11031	123478-HxCDF	70648-26-9	1.39	J	0.0633	4.96	1
11031	123678-HxCDF	57117-44-9	0.812	J	0.0605	4.96	1
11031	123789-HxCDF	72918-21-9	0.402	JB	0.0619	4.96	1
11031	234678-HxCDF	60851-34-5	1.24	JB	0.0576	4.96	1
11031	1234678-HpCDF	67562-39-4	22.2	B	0.0599	4.96	1
11031	1234789-HpCDF	55673-89-7	1.94	JB	0.0739	4.96	1
11031	OCDF	39001-02-0	55.3	B	0.0741	9.93	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	62	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-135-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-135-SA7-SS-0.0-0.5

LLI Sample # SW 6414249
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 08:10

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3905 SDG#: DX139-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-135-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-135-SA7-SS-0.0-0.5

LLI Sample # SW 6414249
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 08:10

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3905 SDG#: DX139-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11273001	10/04/2011 16:38	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11273001	09/30/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11284162401A	10/11/2011 18:27	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-173-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-173-SA7-SS-0.0-0.5

LLI Sample # SW 6414250
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 14:45

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3906 SDG#: DX139-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.97	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-173-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-173-SA7-SS-0.0-0.5

LLI Sample # SW 6414250
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 14:45

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3906 SDG#: DX139-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0656	U	0.0656	1.01	1
11031	12378-PeCDD	40321-76-4	0.175	JQ	0.0449	5.03	1
11031	123478-HxCDD	39227-28-6	0.219	JQ	0.0500	5.03	1
11031	123678-HxCDD	57653-85-7	0.346	J	0.0503	5.03	1
11031	123789-HxCDD	19408-74-3	0.360	JB	0.0452	5.03	1
11031	1234678-HpCDD	35822-46-9	6.41	B	0.0656	5.03	1
11031	OCDD	3268-87-9	58.4	B	0.0946	10.1	1
11031	2378-TCDF	51207-31-9	0.0484	U	0.0484	1.01	1
11031	12378-PeCDF	57117-41-6	0.156	J	0.0274	5.03	1
11031	23478-PeCDF	57117-31-4	0.168	JBQ	0.0271	5.03	1
11031	123478-HxCDF	70648-26-9	0.183	J	0.0369	5.03	1
11031	123678-HxCDF	57117-44-9	0.174	JQ	0.0310	5.03	1
11031	123789-HxCDF	72918-21-9	0.0593	JBQ	0.0340	5.03	1
11031	234678-HxCDF	60851-34-5	0.168	JB	0.0283	5.03	1
11031	1234678-HpCDF	67562-39-4	1.17	JB	0.0325	5.03	1
11031	1234789-HpCDF	55673-89-7	0.0770	JBQ	0.0504	5.03	1
11031	OCDF	39001-02-0	2.60	JB	0.0853	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	57	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-173-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-173-SA7-SS-0.0-0.5

LLI Sample # SW 6414250
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 14:45

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3906 SDG#: DX139-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-173-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-173-SA7-SS-0.0-0.5

LLI Sample # SW 6414250
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 14:45

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3906 SDG#: DX139-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11273001	10/04/2011 17:34	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11273001	09/30/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11270162402A	09/27/2011 21:20	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP03-SA7-QC-092011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP03-SA7-QC-092011

LLI Sample # SW 6414251
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:35

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3907 SDG#: DX139-07FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP03-SA7-QC-092011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP03-SA7-QC-092011

LLI Sample # SW 6414251
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:35

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3907 SDG#: DX139-07FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.250	JQ	0.0637	0.994	1
11031	12378-PeCDD	40321-76-4	1.00	J	0.0797	4.97	1
11031	123478-HxCDD	39227-28-6	1.77	J	0.0858	4.97	1
11031	123678-HxCDD	57653-85-7	6.18		0.0830	4.97	1
11031	123789-HxCDD	19408-74-3	3.59	JB	0.0784	4.97	1
11031	1234678-HpCDD	35822-46-9	197	B	0.178	4.97	1
11031	OCDD	3268-87-9	1,800	B	0.193	9.94	1
11031	2378-TCDF	51207-31-9	0.423	J	0.118	0.994	1
11031	12378-PeCDF	57117-41-6	0.800	J	0.0780	4.97	1
11031	23478-PeCDF	57117-31-4	1.83	JB	0.0723	4.97	1
11031	123478-HxCDF	70648-26-9	1.68	J	0.0887	4.97	1
11031	123678-HxCDF	57117-44-9	0.999	JQ	0.0783	4.97	1
11031	123789-HxCDF	72918-21-9	0.405	JB	0.0656	4.97	1
11031	234678-HxCDF	60851-34-5	1.19	JB	0.0595	4.97	1
11031	1234678-HpCDF	67562-39-4	18.9	B	0.0791	4.97	1
11031	1234789-HpCDF	55673-89-7	1.55	JB	0.0762	4.97	1
11031	OCDF	39001-02-0	43.4	B	0.103	9.94	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	50	26 - 152
13C12-123678-HxCDF	57	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	56	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	58	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **DUP03-SA7-QC-092011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP03-SA7-QC-092011

LLI Sample # SW 6414251
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:35

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3907 SDG#: DX139-07FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP03-SA7-QC-092011 Soil**
SSFL Area IV Collocated Soil Sampling
DUP03-SA7-QC-092011

LLI Sample # SW 6414251
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 07:35

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3907 SDG#: DX139-07FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11273001	10/04/2011 18:31	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11273001	09/30/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11284162401A	10/11/2011 18:27	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-136-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-136-SA7-SS-0.0-0.5

LLI Sample # SW 6414252
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:35

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3908 SDG#: DX139-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-136-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-136-SA7-SS-0.0-0.5

LLI Sample # SW 6414252
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:35

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3908 SDG#: DX139-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.337	J	0.0557	0.987	1
11031	12378-PeCDD	40321-76-4	2.69	J	0.0704	4.93	1
11031	123478-HxCDD	39227-28-6	3.69	J	0.0884	4.93	1
11031	123678-HxCDD	57653-85-7	10.3		0.0896	4.93	1
11031	123789-HxCDD	19408-74-3	6.71	B	0.0854	4.93	1
11031	1234678-HpCDD	35822-46-9	265	B	0.169	4.93	1
11031	OCDD	3268-87-9	2,550	B	0.200	9.87	1
11031	2378-TCDF	51207-31-9	0.333	JQ	0.0912	0.987	1
11031	12378-PeCDF	57117-41-6	0.405	J	0.0717	4.93	1
11031	23478-PeCDF	57117-31-4	1.07	JB	0.0663	4.93	1
11031	123478-HxCDF	70648-26-9	2.15	J	0.0891	4.93	1
11031	123678-HxCDF	57117-44-9	1.29	J	0.0761	4.93	1
11031	123789-HxCDF	72918-21-9	0.448	JB	0.0652	4.93	1
11031	234678-HxCDF	60851-34-5	1.59	JB	0.0581	4.93	1
11031	1234678-HpCDF	67562-39-4	27.5	B	0.0827	4.93	1
11031	1234789-HpCDF	55673-89-7	2.20	JB	0.0809	4.93	1
11031	OCDF	39001-02-0	70.3	B	0.0825	9.87	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	91	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	92	32 - 141
13C12-123678-HxCDD	93	28 - 130
13C12-123789-HxCDD	93	28 - 130
13C12-1234678-HpCDD	95	23 - 140
13C12-OCDD	89	17 - 157
13C12-2378-TCDF	93	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	92	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	88	26 - 138
13C12-OCDF	80	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-136-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-136-SA7-SS-0.0-0.5

LLI Sample # SW 6414252
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:35

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3908 SDG#: DX139-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-136-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-136-SA7-SS-0.0-0.5

LLI Sample # SW 6414252
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:35

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3908 SDG#: DX139-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11273001	10/04/2011 22:30	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11273001	09/30/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11284162401A	10/11/2011 18:27	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-058-SA7-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA7-SB-0.5-1.5

LLI Sample # SW 6414253
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 14:40

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3909 SDG#: DX139-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-058-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA7-SB-0.5-1.5

LLI Sample # SW 6414253
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 14:40

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3909 SDG#: DX139-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0575	U	0.0575	1.04	1
11031	12378-PeCDD	40321-76-4	0.0613	JQ	0.0475	5.21	1
11031	123478-HxCDD	39227-28-6	0.0396	U	0.0396	5.21	1
11031	123678-HxCDD	57653-85-7	0.109	JQ	0.0388	5.21	1
11031	123789-HxCDD	19408-74-3	0.103	JBQ	0.0359	5.21	1
11031	1234678-HpCDD	35822-46-9	2.17	JBQ	0.0622	5.21	1
11031	OCDD	3268-87-9	25.4	B	0.0755	10.4	1
11031	2378-TCDF	51207-31-9	0.0756	U	0.0756	1.04	1
11031	12378-PeCDF	57117-41-6	0.271	JQ	0.0393	5.21	1
11031	23478-PeCDF	57117-31-4	0.645	JB	0.0379	5.21	1
11031	123478-HxCDF	70648-26-9	0.118	J	0.0339	5.21	1
11031	123678-HxCDF	57117-44-9	0.0532	JQ	0.0306	5.21	1
11031	123789-HxCDF	72918-21-9	0.0463	JBQ	0.0370	5.21	1
11031	234678-HxCDF	60851-34-5	0.0473	JBQ	0.0312	5.21	1
11031	1234678-HpCDF	67562-39-4	0.445	JB	0.0286	5.21	1
11031	1234789-HpCDF	55673-89-7	0.0528	JBQ	0.0457	5.21	1
11031	OCDF	39001-02-0	0.843	JBQ	0.0803	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	58	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-058-SA7-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA7-SB-0.5-1.5

LLI Sample # SW 6414253
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 14:40

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3909 SDG#: DX139-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-058-SA7-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-058-SA7-SB-0.5-1.5

LLI Sample # SW 6414253
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 14:40

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3909 SDG#: DX139-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11273001	10/04/2011 23:27	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11273001	09/30/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11284162401B	10/11/2011 18:27	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-059-SA7-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA7-SB-5.0-6.0

LLI Sample # SW 6414254
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 12:30

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3910 SDG#: DX139-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-059-SA7-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA7-SB-5.0-6.0

LLI Sample # SW 6414254
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 12:30

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3910 SDG#: DX139-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0587	U	0.0587	1.12	1
11031	12378-PeCDD	40321-76-4	0.0447	U	0.0447	5.61	1
11031	123478-HxCDD	39227-28-6	0.0347	U	0.0347	5.61	1
11031	123678-HxCDD	57653-85-7	0.0540	JQ	0.0354	5.61	1
11031	123789-HxCDD	19408-74-3	0.0352	U	0.0352	5.61	1
11031	1234678-HpCDD	35822-46-9	0.424	JB	0.0524	5.61	1
11031	OCDD	3268-87-9	2.77	JB	0.0441	11.2	1
11031	2378-TCDF	51207-31-9	0.0514	U	0.0514	1.12	1
11031	12378-PeCDF	57117-41-6	0.0261	U	0.0261	5.61	1
11031	23478-PeCDF	57117-31-4	0.0495	JBQ	0.0266	5.61	1
11031	123478-HxCDF	70648-26-9	0.0686	JQ	0.0241	5.61	1
11031	123678-HxCDF	57117-44-9	0.0538	JQ	0.0218	5.61	1
11031	123789-HxCDF	72918-21-9	0.0303	U	0.0303	5.61	1
11031	234678-HxCDF	60851-34-5	0.0235	U	0.0235	5.61	1
11031	1234678-HpCDF	67562-39-4	0.145	JBQ	0.0164	5.61	1
11031	1234789-HpCDF	55673-89-7	0.0311	JBQ	0.0288	5.61	1
11031	OCDF	39001-02-0	0.248	JBQ	0.0723	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	57	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-059-SA7-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA7-SB-5.0-6.0

LLI Sample # SW 6414254
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 12:30

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3910 SDG#: DX139-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-059-SA7-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-059-SA7-SB-5.0-6.0

LLI Sample # SW 6414254
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 12:30

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3910 SDG#: DX139-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11273001	10/05/2011 00:23	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11273001	09/30/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	2	11271162401A	09/28/2011 22:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-149-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-149-SA7-SB-0.0-1.0

LLI Sample # SW 6414255
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:05

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3911 SDG#: DX139-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-149-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-149-SA7-SB-0.0-1.0

LLI Sample # SW 6414255
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:05

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3911 SDG#: DX139-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0940 JQ	0.0683	1.02	1
11031	12378-PeCDD	40321-76-4	0.0541 U	0.0541	5.09	1
11031	123478-HxCDD	39227-28-6	0.0358 U	0.0358	5.09	1
11031	123678-HxCDD	57653-85-7	0.0549 J	0.0359	5.09	1
11031	123789-HxCDD	19408-74-3	0.0697 JBQ	0.0355	5.09	1
11031	1234678-HpCDD	35822-46-9	0.867 JBQ	0.0523	5.09	1
11031	OCDD	3268-87-9	6.22 JB	0.0505	10.2	1
11031	2378-TCDF	51207-31-9	0.0559 U	0.0559	1.02	1
11031	12378-PeCDF	57117-41-6	0.0512 JQ	0.0266	5.09	1
11031	23478-PeCDF	57117-31-4	0.0820 JBQ	0.0266	5.09	1
11031	123478-HxCDF	70648-26-9	0.0549 JQ	0.0258	5.09	1
11031	123678-HxCDF	57117-44-9	0.0436 J	0.0255	5.09	1
11031	123789-HxCDF	72918-21-9	0.0304 JBQ	0.0276	5.09	1
11031	234678-HxCDF	60851-34-5	0.0246 U	0.0246	5.09	1
11031	1234678-HpCDF	67562-39-4	0.185 JBQ	0.0180	5.09	1
11031	1234789-HpCDF	55673-89-7	0.0284 U	0.0284	5.09	1
11031	OCDF	39001-02-0	0.406 JB	0.0686	10.2	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	65	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-149-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-149-SA7-SB-0.0-1.0

LLI Sample # SW 6414255
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:05

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3911 SDG#: DX139-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-149-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-149-SA7-SB-0.0-1.0

LLI Sample # SW 6414255
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:05

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3911 SDG#: DX139-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11273001	10/05/2011 01:20	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11273001	09/30/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11284162401B	10/11/2011 18:27	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-150-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-150-SA7-SB-0.0-1.0

LLI Sample # SW 6414256
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:45

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3912 SDG#: DX139-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-150-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-150-SA7-SB-0.0-1.0

LLI Sample # SW 6414256
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:45

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3912 SDG#: DX139-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0659	U	0.0659	1.01	1
11031	12378-PeCDD	40321-76-4	0.0524	U	0.0524	5.06	1
11031	123478-HxCDD	39227-28-6	0.0621	JQ	0.0452	5.06	1
11031	123678-HxCDD	57653-85-7	0.263	J	0.0450	5.06	1
11031	123789-HxCDD	19408-74-3	0.246	JB	0.0439	5.06	1
11031	1234678-HpCDD	35822-46-9	3.78	JBQ	0.0631	5.06	1
11031	OCDD	3268-87-9	34.9	B	0.0546	10.1	1
11031	2378-TCDF	51207-31-9	0.0606	U	0.0606	1.01	1
11031	12378-PeCDF	57117-41-6	0.0345	U	0.0345	5.06	1
11031	23478-PeCDF	57117-31-4	0.0772	JB	0.0341	5.06	1
11031	123478-HxCDF	70648-26-9	0.184	JQ	0.0357	5.06	1
11031	123678-HxCDF	57117-44-9	0.0397	J	0.0317	5.06	1
11031	123789-HxCDF	72918-21-9	0.215	JBQ	0.0348	5.06	1
11031	234678-HxCDF	60851-34-5	0.0662	JBQ	0.0308	5.06	1
11031	1234678-HpCDF	67562-39-4	0.726	JB	0.0276	5.06	1
11031	1234789-HpCDF	55673-89-7	0.0597	JBQ	0.0453	5.06	1
11031	OCDF	39001-02-0	1.31	JB	0.0755	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	59	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-150-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-150-SA7-SB-0.0-1.0

LLI Sample # SW 6414256
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:45

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3912 SDG#: DX139-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-150-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-150-SA7-SB-0.0-1.0

LLI Sample # SW 6414256
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 11:45

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3912 SDG#: DX139-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11273001	10/05/2011 02:17	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11273001	09/30/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11284162401B	10/11/2011 18:27	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-154-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-154-SA7-SB-0.0-1.0

LLI Sample # SW 6414257
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 10:30

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3913 SDG#: DX139-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-154-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-154-SA7-SB-0.0-1.0

LLI Sample # SW 6414257
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 10:30

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3913 SDG#: DX139-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0442	U	0.0442	1.04	1
11031	12378-PeCDD	40321-76-4	0.0319	U	0.0319	5.18	1
11031	123478-HxCDD	39227-28-6	0.0582	JQ	0.0350	5.18	1
11031	123678-HxCDD	57653-85-7	0.115	J	0.0334	5.18	1
11031	123789-HxCDD	19408-74-3	0.101	JQ	0.0323	5.18	1
11031	1234678-HpCDD	35822-46-9	2.77	JB	0.0535	5.18	1
11031	OCDD	3268-87-9	30.0	B	0.0513	10.4	1
11031	2378-TCDF	51207-31-9	0.0453	U	0.0453	1.04	1
11031	12378-PeCDF	57117-41-6	0.0680	JQ	0.0253	5.18	1
11031	23478-PeCDF	57117-31-4	0.0642	JBQ	0.0243	5.18	1
11031	123478-HxCDF	70648-26-9	0.0422	JBQ	0.0224	5.18	1
11031	123678-HxCDF	57117-44-9	0.0264	JQ	0.0213	5.18	1
11031	123789-HxCDF	72918-21-9	0.0233	U	0.0233	5.18	1
11031	234678-HxCDF	60851-34-5	0.0493	JQ	0.0214	5.18	1
11031	1234678-HpCDF	67562-39-4	0.410	JB	0.0229	5.18	1
11031	1234789-HpCDF	55673-89-7	0.0414	U	0.0414	5.18	1
11031	OCDF	39001-02-0	0.991	JBQ	0.0545	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	63	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-154-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-154-SA7-SB-0.0-1.0

LLI Sample # SW 6414257
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 10:30

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3913 SDG#: DX139-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-154-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-154-SA7-SB-0.0-1.0

LLI Sample # SW 6414257
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 10:30

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3913 SDG#: DX139-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11276003	10/05/2011 17:35	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11276003	10/03/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11284162401B	10/11/2011 18:27	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-174-SA7-SB-1.0-2.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-174-SA7-SB-1.0-2.0

LLI Sample # SW 6414258
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:35

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3914 SDG#: DX139-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-174-SA7-SB-1.0-2.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-174-SA7-SB-1.0-2.0

LLI Sample # SW 6414258
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:35

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3914 SDG#: DX139-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0741	U	0.0741	1.05	1
11031	12378-PeCDD	40321-76-4	0.0933	J	0.0537	5.23	1
11031	123478-HxCDD	39227-28-6	0.0370	U	0.0370	5.23	1
11031	123678-HxCDD	57653-85-7	0.0361	U	0.0361	5.23	1
11031	123789-HxCDD	19408-74-3	0.0382	U	0.0382	5.23	1
11031	1234678-HpCDD	35822-46-9	1.70	JB	0.116	5.23	1
11031	OCDD	3268-87-9	898	B	0.207	10.5	1
11031	2378-TCDF	51207-31-9	0.0605	U	0.0605	1.05	1
11031	12378-PeCDF	57117-41-6	0.0322	U	0.0322	5.23	1
11031	23478-PeCDF	57117-31-4	0.0756	JBQ	0.0305	5.23	1
11031	123478-HxCDF	70648-26-9	0.0818	JQ	0.0360	5.23	1
11031	123678-HxCDF	57117-44-9	0.0655	JQ	0.0324	5.23	1
11031	123789-HxCDF	72918-21-9	0.0404	JBQ	0.0349	5.23	1
11031	234678-HxCDF	60851-34-5	0.0285	U	0.0285	5.23	1
11031	1234678-HpCDF	67562-39-4	0.300	JBQ	0.0285	5.23	1
11031	1234789-HpCDF	55673-89-7	0.0424	U	0.0424	5.23	1
11031	OCDF	39001-02-0	1.11	JB	0.101	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	55	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-174-SA7-SB-1.0-2.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-174-SA7-SB-1.0-2.0

LLI Sample # SW 6414258
LLI Group # 1267612
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:35

Submitted: 09/21/2011 09:00
Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3914 SDG#: DX139-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-174-SA7-SB-1.0-2.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-174-SA7-SB-1.0-2.0

LLI Sample # SW 6414258
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/20/2011 09:35

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Reported: 10/12/2011 07:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3914 SDG#: DX139-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11273001	10/05/2011 03:13	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11273001	09/30/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11284162401B	10/11/2011 18:27	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267612
Reported: 10/12/11 at 07:41 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11270162402A	Sample number(s): 6414245-6414247,6414250								
Moisture Content by 160.3					100		80-120		
Batch number: 11271162401A	Sample number(s): 6414254								
Moisture Content by 160.3					100		80-120		
Batch number: 11284162401A	Sample number(s): 6414248-6414249,6414251-6414252								
Moisture Content by 160.3					100		80-120		
Batch number: 11284162401B	Sample number(s): 6414253,6414255-6414258								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11273001	Sample number(s): 6414245-6414256,6414258								
2378-TCDD	0.0675 U	0.0675	1.00	ng/kg	104		67-158		
12378-PeCDD	0.0446 U	0.0446	5.00	ng/kg	104		70-142		
123478-HxCDD	0.0352 U	0.0352	5.00	ng/kg	103		70-164		
123678-HxCDD	0.0357 U	0.0357	5.00	ng/kg	99		76-134		
123789-HxCDD	0.0371 J	0.0321	5.00	ng/kg	101		64-162		
1234678-HpCDD	0.226 J	0.0457	5.00	ng/kg	100		70-140		
OCDD	0.460 J	0.0388	10.0	ng/kg	99		78-144		
2378-TCDF	0.0543 U	0.0543	1.00	ng/kg	97		75-158		
12378-PeCDF	0.0263 U	0.0263	5.00	ng/kg	101		80-134		
23478-PeCDF	0.0485 J	0.0256	5.00	ng/kg	99		68-160		
123478-HxCDF	0.0256 U	0.0256	5.00	ng/kg	99		72-134		
123678-HxCDF	0.0218 U	0.0218	5.00	ng/kg	103		84-130		
123789-HxCDF	0.0325 J	0.0266	5.00	ng/kg	98		78-130		
234678-HxCDF	0.0306 J	0.0224	5.00	ng/kg	100		70-156		
1234678-HpCDF	0.0694 J	0.0157	5.00	ng/kg	96		82-122		
1234789-HpCDF	0.0447 J	0.0264	5.00	ng/kg	100		78-138		
OCDF	0.167 J	0.0689	10.0	ng/kg	99		63-170		
Batch number: 11276003	Sample number(s): 6414257								
2378-TCDD	0.0509 U	0.0509	1.00	ng/kg	102		67-158		
12378-PeCDD	0.0428 J	0.0340	5.00	ng/kg	100		70-142		
123478-HxCDD	0.0207 U	0.0207	5.00	ng/kg	100		70-164		
123678-HxCDD	0.0212 U	0.0212	5.00	ng/kg	98		76-134		
123789-HxCDD	0.0215 U	0.0215	5.00	ng/kg	100		64-162		
1234678-HpCDD	0.215 J	0.0311	5.00	ng/kg	98		70-140		
OCDD	0.363 J	0.0256	10.0	ng/kg	95		78-144		
2378-TCDF	0.0346 U	0.0346	1.00	ng/kg	100		75-158		
12378-PeCDF	0.0163 U	0.0163	5.00	ng/kg	98		80-134		
23478-PeCDF	0.0722 J	0.0166	5.00	ng/kg	98		68-160		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267612
Reported: 10/12/11 at 07:41 AM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
123478-HxCDF	0.0306 J	0.0175	5.00	ng/kg	95		72-134		
123678-HxCDF	0.0153 U	0.0153	5.00	ng/kg	96		84-130		
123789-HxCDF	0.0217 U	0.0217	5.00	ng/kg	95		78-130		
234678-HxCDF	0.0171 U	0.0171	5.00	ng/kg	98		70-156		
1234678-HpCDF	0.123 J	0.0126	5.00	ng/kg	93		82-122		
1234789-HpCDF	0.0275 J	0.0247	5.00	ng/kg	97		78-138		
OCDF	0.0830 J	0.0633	10.0	ng/kg	97		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11270162402A	Sample number(s): 6414245-6414247,6414250 BKG: P414146								
Moisture Content by 160.3						18.5	19.9	8	20
Batch number: 11271162401A	Sample number(s): 6414254 BKG: P414169								
Moisture Content by 160.3						11.2	11.9	6	20
Batch number: 11284162401A	Sample number(s): 6414248-6414249,6414251-6414252 BKG: P414153								
Moisture Content by 160.3						1.9	1.9	3 (1)	20
Batch number: 11284162401B	Sample number(s): 6414253,6414255-6414258 BKG: P414173								
Moisture Content by 160.3						5.8	5.9	2	20
Batch number: 11273001	Sample number(s): 6414245-6414256,6414258 UNSPK: P415804								
2378-TCDD	101	102	67-158	2	25				
12378-PeCDD	101	103	70-142	2	25				
123478-HxCDD	102	101	70-164	0	25				
123678-HxCDD	99	99	76-134	1	25				
123789-HxCDD	99	97	64-162	1	25				
1234678-HpCDD	48*	66*	70-140	8	25				
OCDD	-232 (2)	-134 (2)	78-144	12	25				
2378-TCDF	94	91	75-158	3	25				
12378-PeCDF	98	103	80-134	6	25				
23478-PeCDF	96	100	68-160	5	25				
123478-HxCDF	97	99	72-134	3	25				
123678-HxCDF	98	99	84-130	2	25				
123789-HxCDF	97	100	78-130	3	25				
234678-HxCDF	97	98	70-156	2	25				
1234678-HpCDF	89	97	82-122	7	25				
1234789-HpCDF	98	99	78-138	2	25				
OCDF	90	93	63-170	3	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267612
Reported: 10/12/11 at 07:41 AM

Surrogate Quality Control

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11273001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6414245	78	74	59	69	73	67
6414246	74	75	65	68	72	74
6414247	77	71	66	73	72	74
6414248	76	71	62	67	73	81
6414249	75	73	68	70	74	79
6414250	70	69	59	67	70	69
6414251	77	73	50	57	74	76
6414252	91	85	60	66	87	92
6414253	75	70	69	76	71	72
6414254	71	65	65	72	69	65
6414255	72	68	67	71	70	76
6414256	74	65	62	70	68	72
6414258	71	64	55	62	70	67
Blank	79	77	72	81	77	78
MS	78	74	70	72	78	80
MSD	79	73	63	68	79	85
OPR	68	66	60	65	67	68
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6414245	81	61	51	76	78	80
6414246	73	67	61	76	74	79
6414247	84	66	61	74	79	82
6414248	71	76	71	73	78	82
6414249	72	70	62	74	76	81
6414250	81	63	57	72	77	79
6414251	56	68	58	73	74	78
6414252	70	88	80	84	92	93
6414253	83	65	58	73	80	84
6414254	84	61	57	70	76	81
6414255	84	67	65	71	79	81
6414256	82	62	59	70	79	82
6414258	73	60	55	69	76	84
Blank	99	72	68	84	88	90
MS	76	77	71	75	80	83
MSD	71	77	67	74	84	85
OPR	85	63	60	71	76	77
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6414245	80	76	66	74	80
6414246	78	75	68	76	80
6414247	83	81	76	74	76
6414248	87	82	78	78	73
6414249	83	76	67	76	72
6414250	80	80	73	68	73
6414251	79	72	62	78	73
6414252	93	95	89	93	84
6414253	88	79	73	72	75

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267612
Reported: 10/12/11 at 07:41 AM

Surrogate Quality Control

6414254	80	79	73	68	71
6414255	81	81	80	70	72
6414256	81	78	75	69	70
6414258	79	76	71	67	68
Blank	90	93	90	76	82
MS	83	83	78	79	75
MSD	88	82	73	81	73
OPR	77	80	78	63	71
Limits:	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11276003

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6414257	74	68	70	76	72	79
Blank	72	66	66	78	69	65
OPR	81	74	75	87	79	77
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6414257	93	67	63	72	82	88
Blank	97	60	54	72	80	83
OPR	112	68	61	84	92	92
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6414257	85	86	83	70	74
Blank	81	83	80	67	72
OPR	92	95	91	76	84
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cp# 1267612 samp6# 6414245-58

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 8 (SA8) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/7000B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**N-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dioxins# EPA 8270	Other Instructions and Notes
SL-131-SA7-SS-0.0-0.5	09.19.11	1410	SOIL	NONE	1-SS Sleeve			X	X																		
SL-131-SA7-SS-0.0-0.5	09.19.11	1410	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-137-SA7-SS-0.0-0.5	09.19.11	1345	SOIL	NONE	1-SS Sleeve			X	X																		
SL-137-SA7-SS-0.0-0.5	09.19.11	1345	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-138-SA7-SS-0.0-0.5	09.19.11	1430	SOIL	NONE	1-SS Sleeve			X	X																		
SL-138-SA7-SS-0.0-0.5	09.19.11	1430	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-005-SA7-SS-0.0-0.5	09.20.11	1105	SOIL	NONE	1-SS Sleeve			X	X																		
SL-005-SA7-SS-0.0-0.5	09.20.11	1105	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-006-SA7-SS-0.0-0.5	09.20.11	1040	SOIL	NONE	1-SS Sleeve			X	X																		
SL-006-SA7-SS-0.0-0.5	09.20.11	1040	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-043-SA7-SS-0.0-0.5	09.20.11	1355	SOIL	NONE	1-SS Sleeve			X	X																		
SL-043-SA7-SS-0.0-0.5	09.20.11	1355	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X		X	X	X	X	
SL-046-SA7-SS-0.0-0.5	09.20.11	1015	SOIL	NONE	1-SS Sleeve			X	X																		
SL-046-SA7-SS-0.0-0.5	09.20.11	1015	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-047-SA7-SS-0.0-0.5	09.20.11	0900	SOIL	NONE	1-SS Sleeve			X	X																		
SL-047-SA7-SS-0.0-0.5	09.20.11	0900	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-049-SA7-SS-0.0-0.5	09.20.11	1155	SOIL	NONE	1-SS Sleeve			X	X																		
SL-049-SA7-SS-0.0-0.5	09.20.11	1155	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-050-SA7-SS-0.0-0.5MS	09.20.11	0730	SOIL	NONE	2-SS Sleeve			X	X																		MS/MSD
SL-050-SA7-SS-0.0-0.5MS	09.20.11	0730	SOIL	NONE	4-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		MS/MSD
SL-051-SA7-SS-0.0-0.5	09.20.11	0945	SOIL	NONE	1-SS Sleeve			X	X																		
SL-051-SA7-SS-0.0-0.5	09.20.11	0945	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-085-SA7-SS-0.0-0.5	09.20.11	1425	SOIL	NONE	1-SS Sleeve			X	X																		
SL-085-SA7-SS-0.0-0.5	09.20.11	1425	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	
SL-125-SA7-SS-0.0-0.5	09.20.11	1520	SOIL	NONE	1-SS Sleeve			X	X																		
SL-125-SA7-SS-0.0-0.5	09.20.11	1520	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X														
SL-129-SA7-SS-0.0-0.5	09.20.11	1135	SOIL	NONE	1-SS Sleeve			X	X																		
SL-129-SA7-SS-0.0-0.5	09.20.11	1135	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-134-SA7-SS-0.0-0.5	09.20.11	0925	SOIL	NONE	1-SS Sleeve			X	X																		
SL-134-SA7-SS-0.0-0.5	09.20.11	0925	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-135-SA7-SS-0.0-0.5	09.20.11	0810	SOIL	NONE	1-SS Sleeve			X	X																		
SL-135-SA7-SS-0.0-0.5	09.20.11	0810	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-173-SA7-SS-0.0-0.5	09.20.11	1445	SOIL	NONE	1-SS Sleeve			X	X																		
SL-173-SA7-SS-0.0-0.5	09.20.11	1445	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	
DUP03-SA7-QC-092011	09.20.11	0735	SOIL	NONE	1-SS Sleeve			X	X																		
DUP03-SA7-QC-092011	09.20.11	0735	SOIL	NONE	2-16 oz Jar	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Other Instructions and Notes
	09/20/2011 / 1600	Kary H/L LLI 9/21/11 0900	Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No(s)	
		8754 3341 0737,0748,0759,0760	

acct# 13013 Cap# 1267612 Sample# 6414245-58

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 8 (SA8) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-058-SA7-SB-1.0	09.20.11	1441	SOIL	NONE	2-Encores										X											
SL-058-SA7-SB-0.5-1.5	09.20.11	1440	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-059-SA7-SB-5.5	09.20.11	1231	SOIL	NONE	2-Encores										X											
SL-059-SA7-SB-5.0-6.0	09.20.11	1230	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X					X	X	X	X		
SL-149-SA7-SB-0.5	09.20.11	1106	SOIL	NONE	2-Encores										X											
SL-149-SA7-SB-0.0-0.1	09.20.11	1105	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-150-SA7-SB-0.5	09.20.11	1146	SOIL	NONE	2-Encores										X											
SL-150-SA7-SB-0.0-1.0	09.20.11	1145	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-154-SA7-SB-0.5	09.20.11	1031	SOIL	NONE	2-Encores										X											
SL-154-SA7-SB-0.0-1.0	09.20.11	1030	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-174-SA7-SB-1.5	09.20.11	0936	SOIL	NONE	2-Encores										X											
SL-174-SA7-SB-1.0-2.0	09.20.11	0935	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
TB-092011	09.20.11	0800	WATER	NONE	2-10mL vials										X											

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	09/20/2011 / 1600	LLI 9/21/11 0900	Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**	
		8754 3341 0737,0748,0759,0760	

Nicole Maljovec

From: Nicole Maljovec
Sent: Wednesday, September 21, 2011 5:17 PM
To: 'Hartman, Pamela'
Subject: RE: SSFL COC 9/20/11- received extra samples

Oh, I should have thought of that! Ok, we'll enter the SL-022 jar under the already entered SL-022 (LLI# 6409796), and I'll have SL-136 entered for primary and secondary as well as pest and herbs since it's surface.

Thanks!

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Wednesday, September 21, 2011 4:50 PM
To: Nicole Maljovec
Subject: RE: SSFL COC 9/20/11- received extra samples

Hi Nicole,

SL-136 is all primary and secondary

SL-022 is an orphan from last week-it was sampled 9/16/11. I believe you guys received a jar and sleeve for it already, so hopefully that was enough for its analysis!

Sorry for the mistakes

Thanks,

Pam

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Wednesday, September 21, 2011 1:46 PM
To: Hartman, Pamela
Subject: FW: SSFL COC 9/20/11- received extra samples

Hi Pam,
We received two extra samples that weren't on the COC today. We have:

SL136-SA7-SS-0.0-0.5=one sleeve and 2 jars SL-022-SA7-SS-0.0-0.5= one jar

Do you have the sleeve for SL-022? And, what analyses should we enter for these?

Thanks!
Nicole

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Tuesday, September 20, 2011 7:27 PM
To: Bloisa, Peggy; Burgesser, Todd; 'Laura Rainey'; Nicole Maljovec; SA Env Entry; TWallbom@dtsc.ca.gov; Zakowski, Cherie
Subject: SSFL COC 9/20/11

Subsurface and surface sampling continued in SA7 today. Please see attached COC.

Thanks,

Pam

CONFIDENTIAL MATERIAL: This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If received in error,

Nicole Maljovec

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Monday, September 26, 2011 7:35 PM
To: Nicole Maljovec; Bloisa, Peggy
Subject: RE: SSFL COC 9/20/11- confirm sample depth for SL-149-SA7-SB-0.0-0.1

yes, is should be 0.0-1.0 ! Thank you!

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Monday, September 26, 2011 4:33 PM
To: Hartman, Pamela; Bloisa, Peggy
Subject: FW: SSFL COC 9/20/11- confirm sample depth for SL-149-SA7-SB-0.0-0.1

Hi Peggy and Pam,
I think SL-149-SA7-SB-0.0-0.1 should be 0.0-1.0. Please confirm the sample depth.

Thanks!
Nicole

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Tuesday, September 20, 2011 7:27 PM
To: Bloisa, Peggy; Burgesser, Todd; 'Laura Rainey'; Nicole Maljovec; SA Env Entry; TWallbom@dtsc.ca.gov; Zakowski, Cherie
Subject: SSFL COC 9/20/11

Subsurface and surface sampling continued in SA7 today. Please see attached COC.

Thanks,

Pam

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 03, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/22/2011
Group Number: 1267829
SDG: DE250
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-001-SA7-SS-0.0-0.5 Soil	6415776
SL-061-SA7-SS-0.0-0.5 Soil	6415777
SL-119-SA7-SS-0.0-0.5 Soil	6415778
SL-120-SA7-SS-0.0-0.5 Soil	6415779
SL-120-SA7-SS-0.0-0.5MS Soil	6415780
SL-120-SA7-SS-0.0-0.5MSD Soil	6415781
SL-120-SA7-SS-0.0-0.5DUP Soil	6415782
SL-120-SA7-SS-0.0-0.5RL MS Soil	6415783
SL-120-SA7-SS-0.0-0.5RL LCS Soil	6415784
SL-121-SA7-SS-0.0-0.5 Soil	6415785
SL-123-SA7-SS-0.0-0.5 Soil	6415786
SL-124-SA7-SS-0.0-0.5 Soil	6415787
SL-175-SA7-SS-0.0-0.5 Soil	6415788
DUP04-SA7-QC-092111 Soil	6415789
SL-056-SA7-SB-4.0-5.0 Soil	6415790
SL-057-SA7-SB-3.0-4.0 Soil	6415791
SL-078-SA7-SB-4.0-5.0 Soil	6415792
SL-078-SA7-SB-7.0-8.0 Soil	6415793
SL-156-SA7-SB-4.0-5.0 Soil	6415794
SL-156-SA7-SB-7.5-8.5 Soil	6415795
SL-158-SA7-SB-4.0-5.0 Soil	6415796
TB-092111 Water	6415797
EB-SA7-SS-092111 Water	6415798

Lancaster Laboratories

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Analysis Report

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Lawrence M. Taylor
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-001-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA7-SS-0.0-0.5

LLI Sample # SW 6415776
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5001 SDG#: DE250-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	19	J	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-001-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA7-SS-0.0-0.5

LLI Sample # SW 6415776
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5001 SDG#: DE250-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.95	J	0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	1.9		0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	5.3		0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	1.4	J	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.99	J	0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	2.5		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	12	J	6.1	18		1
10138	Fluoranthene	206-44-0	3.7		0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	1.8		0.68	1.7		1
10138	Pyrene	129-00-0	3.0		0.68	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	4.4		1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	6.0		0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	1.9		0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-001-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA7-SS-0.0-0.5

LLI Sample # SW 6415776
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5001 SDG#: DE250-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	2.4	J	0.82	3.5		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35		1
01363	p,p-DDE	72-55-9	0.45		0.067	0.35		1
01363	p,p-DDT	50-29-3	0.87		0.067	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.10	U	0.10	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.35	U	0.35	0.35		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.14	U	0.14	0.35		1
01363	Toxaphene	8001-35-2	11	U	11	11		1

The sample was injected following maintenance and a new calibration.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	2.0	J	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	1.6	J	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	15,700		5.93	19.6		1
07914	Boron	7440-42-8	0.353	U	0.353	4.90		1
01650	Calcium	7440-70-2	2,920		2.45	19.6		1
01654	Iron	7439-89-6	23,000		2.63	20.2		1
01656	Lithium	7439-93-2	26.5		0.61	2.0		1
01657	Magnesium	7439-95-4	5,340		0.431	9.80		1
06958	Manganese	7439-96-5	329		0.0353	0.490		1

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Sample Description: **SL-001-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA7-SS-0.0-0.5

LLI Sample # SW 6415776
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5001 SDG#: DE250-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	494		0.343	9.80		1
01662	Potassium	7440-09-7	4,390		11.1	49.0		1
01667	Sodium	7440-23-5	79.8	J	5.83	98.0		1
07968	Strontium	7440-24-6	16.1		0.0245	0.490		1
06969	Tin	7440-31-5	3.11	J	0.314	9.80		1
06970	Titanium	7440-32-6	1,330		0.0696	0.980		1
10146	Zirconium	7440-67-7	2.83	J	0.451	4.90		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.255		0.0740	0.200		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.38		0.0800	0.400		2
06126	Barium	7440-39-3	153		0.106	0.400		2
06127	Beryllium	7440-41-7	0.747		0.0160	0.0999		2
06128	Cadmium	7440-43-9	0.296		0.0440	0.0999		2
06131	Chromium	7440-47-3	25.4		0.120	0.400		2
06132	Cobalt	7440-48-4	9.30		0.0200	0.0999		2
06133	Copper	7440-50-8	14.4		0.0800	0.400		2
06135	Lead	7439-92-1	18.6		0.0102	0.200		2
06138	Molybdenum	7439-98-7	0.853		0.0500	0.0999		2
06139	Nickel	7440-02-0	19.9		0.0999	0.400		2
06141	Selenium	7782-49-2	0.215	J	0.0580	0.400		2
06142	Silver	7440-22-4	0.0609	J	0.0142	0.0999		2
06145	Thallium	7440-28-0	0.367		0.0300	0.0999		2
06148	Vanadium	7440-62-2	53.1		0.0220	0.0999		2
06149	Zinc	7440-66-6	90.3		0.560	3.00		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0070	U	0.0070	0.0996		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.48	J	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.35		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.9		0.50	0.50		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-001-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA7-SS-0.0-0.5

LLI Sample # SW 6415776
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5001 SDG#: DE250-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11277SLD026	10/06/2011 10:36	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11270SLA026	10/07/2011 18:21	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11270SLA026	09/28/2011 09:40	Roza S Goslawska	1
00381	BNA Soil Sonication	SW-846 3550B	2	11277SLD026	10/05/2011 08:20	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112690021A	09/30/2011 22:54	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112690019A	10/02/2011 22:41	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112770010A	10/05/2011 11:25	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112690019A	09/29/2011 12:15	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	112770010A	10/04/2011 19:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112690021A	09/29/2011 02:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	112665708002	09/30/2011 21:37	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112665708002	09/30/2011 21:37	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112665708002	09/30/2011 21:37	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708001	10/06/2011 13:13	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112665708002	09/30/2011 21:37	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112665708002	09/30/2011 21:37	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112665708002	09/30/2011 21:37	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112665708002	09/30/2011 21:37	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112665708002	09/30/2011 21:37	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112665708002	09/30/2011 21:37	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112665708002	09/30/2011 21:37	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112665708002	09/30/2011 21:37	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112665708002	09/30/2011 21:37	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112665708002	09/30/2011 21:37	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112661026001A	09/26/2011 11:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112661026001A	09/26/2011 11:56	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-001-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA7-SS-0.0-0.5

LLI Sample # SW 6415776
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5001 SDG#: DE250-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112661026001D	09/26/2011 11:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112661026001A	09/26/2011 11:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112661026001A	09/26/2011 11:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112661026001A	09/26/2011 11:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112661026001A	09/26/2011 11:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112661026001A	09/26/2011 11:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112661026001A	09/26/2011 11:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112661026001C	09/26/2011 11:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112661026001A	09/26/2011 11:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112661026001B	09/26/2011 11:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112661026001A	09/26/2011 11:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112661026001A	09/26/2011 11:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112661026001A	09/26/2011 11:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112661026001A	09/26/2011 11:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112665711005	09/26/2011 10:10	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112665708002	09/25/2011 19:59	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708001	10/04/2011 22:20	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708001	10/05/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112661026001	09/25/2011 20:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112665711005	09/26/2011 00:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621201A	10/01/2011 00:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11266373204A	10/05/2011 03:37	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243203A	10/04/2011 17:51	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621201A	09/30/2011 05:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266373204A	09/23/2011 18:00	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11277039402A	10/04/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243203A	10/03/2011 12:00	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162401B	09/28/2011 22:01	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-061-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA7-SS-0.0-0.5

LLI Sample # SW 6415777
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 11:50

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5002 SDG#: DE250-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	860	U	860	2,600		5
04688	Benzidine	92-87-5	6,000	U	6,000	17,000		5
04688	Benzoic acid	65-85-0	860	U	860	2,600		5
04688	Benzyl alcohol	100-51-6	860	U	860	2,600		5
04688	4-Bromophenyl-phenylether	101-55-3	86	U	86	860		5
04688	Carbazole	86-74-8	86	U	86	860		5
04688	4-Chloro-3-methylphenol	59-50-7	170	U	170	860		5
04688	4-Chloroaniline	106-47-8	340	U	340	860		5
04688	bis(2-Chloroethoxy)methane	111-91-1	86	U	86	860		5
04688	bis(2-Chloroethyl)ether	111-44-4	86	U	86	860		5
04688	bis(2-Chloroisopropyl)ether	39638-32-9	86	U	86	860		5
04688	2-Chloronaphthalene	91-58-7	86	U	86	860		5
04688	2-Chlorophenol	95-57-8	86	U	86	860		5
04688	4-Chlorophenyl-phenylether	7005-72-3	170	U	170	860		5
04688	Dibenzofuran	132-64-9	86	U	86	860		5
04688	1,2-Dichlorobenzene	95-50-1	86	U	86	860		5
04688	1,3-Dichlorobenzene	541-73-1	86	U	86	860		5
04688	1,4-Dichlorobenzene	106-46-7	86	U	86	860		5
04688	3,3'-Dichlorobenzidine	91-94-1	510	U	510	1,700		5
04688	2,4-Dichlorophenol	120-83-2	86	U	86	860		5
04688	2,4-Dimethylphenol	105-67-9	170	U	170	860		5
04688	3,5-Dimethylphenol	108-68-9	170	U	170	860		5
04688	4,6-Dinitro-2-methylphenol	534-52-1	860	U	860	2,600		5
04688	2,4-Dinitrophenol	51-28-5	1,700	U	1,700	5,100		5
04688	2,4-Dinitrotoluene	121-14-2	170	U	170	860		5
04688	2,6-Dinitrotoluene	606-20-2	86	U	86	860		5
04688	1,2-Diphenylhydrazine	122-66-7	86	U	86	860		5
04688	Hexachlorobenzene	118-74-1	86	U	86	860		5
04688	Hexachlorobutadiene	87-68-3	340	U	340	860		5
04688	Hexachlorocyclopentadiene	77-47-4	860	U	860	2,600		5
04688	Hexachloroethane	67-72-1	86	U	86	860		5
04688	Isophorone	78-59-1	86	U	86	860		5
04688	2-Methylphenol	95-48-7	170	U	170	860		5
04688	4-Methylphenol	106-44-5	170	U	170	860		5
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	86	U	86	860		5
04688	3-Nitroaniline	99-09-2	170	U	170	860		5
04688	4-Nitroaniline	100-01-6	340	U	340	860		5
04688	Nitrobenzene	98-95-3	86	U	86	860		5
04688	2-Nitrophenol	88-75-5	86	U	86	860		5
04688	4-Nitrophenol	100-02-7	860	U	860	2,600		5
04688	N-Nitroso-di-n-propylamine	621-64-7	86	U	86	860		5
04688	N-Nitrosodiphenylamine	86-30-6	86	U	86	860		5
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	860	U	860	2,600		5
04688	Phenol	108-95-2	86	U	86	860		5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-061-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA7-SS-0.0-0.5

LLI Sample # SW 6415777
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 11:50

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5002 SDG#: DE250-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Tetralin	119-64-2	860	U	860	860		5
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	86	U	86	860		5
04688	2,4,5-Trichlorophenol	95-95-4	170	U	170	860		5
04688	2,4,6-Trichlorophenol	88-06-2	170	U	170	860		5
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	6.9	U	6.9	17		10
10138	Acenaphthylene	208-96-8	3.4	U	3.4	17		10
10138	Anthracene	120-12-7	3.4	U	3.4	17		10
10138	Benzo(a)anthracene	56-55-3	6.9	U	6.9	17		10
10138	Benzo(a)pyrene	50-32-8	6.9	U	6.9	17		10
10138	Benzo(b)fluoranthene	205-99-2	13	J	6.9	17		10
10138	Benzo(g,h,i)perylene	191-24-2	6.9	U	6.9	17		10
10138	Benzo(k)fluoranthene	207-08-9	6.9	U	6.9	17		10
10138	Butylbenzylphthalate	85-68-7	62	U	62	180		10
10138	Di-n-butylphthalate	84-74-2	62	U	62	180		10
10138	Chrysene	218-01-9	6.0	J	3.4	17		10
10138	Dibenz(a,h)anthracene	53-70-3	6.9	U	6.9	17		10
10138	Diethylphthalate	84-66-2	62	U	62	180		10
10138	Dimethylphthalate	131-11-3	62	U	62	180		10
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	100	J	62	180		10
10138	Fluoranthene	206-44-0	7.5	J	6.9	17		10
10138	Fluorene	86-73-7	6.9	U	6.9	17		10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	6.9	U	6.9	17		10
10138	1-Methylnaphthalene	90-12-0	6.9	U	6.9	17		10
10138	2-Methylnaphthalene	91-57-6	6.9	U	6.9	17		10
10138	Naphthalene	91-20-3	6.9	U	6.9	17		10
10138	N-Nitrosodimethylamine	62-75-9	6.9	U	6.9	17		10
10138	Di-n-octylphthalate	117-84-0	62	U	62	180		10
10138	Phenanthrene	85-01-8	6.9	U	6.9	17		10
10138	Pyrene	129-00-0	6.9	U	6.9	17		10
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.3		1
10401	2,4-DB	94-82-6	2.5	U	2.5	2.5		1
10401	Dicamba	1918-00-9	0.74	J	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.8		1
10401	MCPA	94-74-6	140	U	140	260		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	0.13	U	0.13	0.18		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.18		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does							

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Sample Description: SL-061-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA7-SS-0.0-0.5

LLI Sample # SW 6415777
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 11:50

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5002 SDG#: DE250-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.2	U	2.2	5.2		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17		1
01363	Alpha BHC	319-84-6	0.040	J	0.035	0.17		1
01363	Beta BHC	319-85-7	0.078	J	0.062	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.062	U	0.062	0.17		1
01363	Chlordane	57-74-9	0.82	U	0.82	3.5		1
01363	p,p-DDD	72-54-8	0.18	U	0.18	0.35		1
01363	p,p-DDE	72-55-9	1.4		0.068	0.35		1
01363	p,p-DDT	50-29-3	1.7		0.068	0.35		1
01363	Delta BHC	319-86-8	0.052	U	0.052	0.17		1
01363	Dieldrin	60-57-1	0.068	U	0.068	0.35		1
01363	Endosulfan I	959-98-8	0.14	U	0.14	0.17		1
01363	Endosulfan II	33213-65-9	0.69	U	0.69	0.69		1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35		1
01363	Endrin	72-20-8	0.11	U	0.11	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.52	U	0.52	0.52		1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35		1
01363	Heptachlor	76-44-8	0.10	U	0.10	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.21	U	0.21	0.21		1
01363	Methoxychlor	72-43-5	0.69	U	0.69	1.7		1
01363	Mirex	2385-85-5	0.13	U	0.13	0.35		1
01363	Toxaphene	8001-35-2	28	U	28	28		1
	The sample was injected following maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	18		1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	8.7		0.34	1.8		1
10225	PCB-1254	11097-69-1	13		0.34	1.8		1
10225	PCB-1260	11096-82-5	7.7		0.40	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	520		1

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Sample Description: **SL-061-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA7-SS-0.0-0.5

LLI Sample # SW 6415777
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 11:50

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5002 SDG#: DE250-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.1	U	2.1	6.2		5
10199	EFH (C15-C20)	n.a.	17		2.1	6.2		5
10199	EFH (C21-C30)	n.a.	150		2.1	6.2		5
10199	EFH (C30 - C40)	n.a.	210		2.1	6.2		5
10199	EFH (C8-C11)	n.a.	11		2.1	6.2		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,200		6.18	20.4		1
07914	Boron	7440-42-8	0.737	J	0.367	5.10		1
01650	Calcium	7440-70-2	5,670		2.55	20.4		1
01654	Iron	7439-89-6	21,600		2.66	20.4		1
01656	Lithium	7439-93-2	23.5		0.63	2.0		1
01657	Magnesium	7439-95-4	4,810		0.449	10.2		1
06958	Manganese	7439-96-5	275		0.0367	0.510		1
10145	Phosphorus	7723-14-0	463		0.357	10.2		1
01662	Potassium	7440-09-7	3,830		11.5	51.0		1
01667	Sodium	7440-23-5	91.0	J	6.07	102		1
07968	Strontium	7440-24-6	27.4		0.0255	0.510		1
06969	Tin	7440-31-5	3.09	J	0.327	10.2		1
06970	Titanium	7440-32-6	1,180		0.0725	1.02		1
10146	Zirconium	7440-67-7	2.63	J	0.470	5.10		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.250		0.0755	0.204		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.20		0.0817	0.408		2
06126	Barium	7440-39-3	135		0.108	0.408		2
06127	Beryllium	7440-41-7	0.717		0.0163	0.102		2

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Sample Description: **SL-061-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA7-SS-0.0-0.5

LLI Sample # SW 6415777
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 11:50

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5002 SDG#: DE250-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.357		0.0449	0.102		2
06131	Chromium	7440-47-3	22.4		0.122	0.408		2
06132	Cobalt	7440-48-4	7.83		0.0204	0.102		2
06133	Copper	7440-50-8	16.1		0.0817	0.408		2
06135	Lead	7439-92-1	25.4		0.0104	0.204		2
06138	Molybdenum	7439-98-7	0.787		0.0510	0.102		2
06139	Nickel	7440-02-0	16.3		0.102	0.408		2
06141	Selenium	7782-49-2	0.178	J	0.0592	0.408		2
06142	Silver	7440-22-4	0.0671	J	0.0145	0.102		2
06145	Thallium	7440-28-0	0.371		0.0306	0.102		2
06148	Vanadium	7440-62-2	44.1		0.0225	0.102		2
06149	Zinc	7440-66-6	167		1.43	7.66		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0320	J	0.0072	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.83	U	0.83	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	30.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.32	J	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.88		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	3.0		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-061-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA7-SS-0.0-0.5

LLI Sample # SW 6415777
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 11:50

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5002 SDG#: DE250-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11277SLD026	10/06/2011 11:02	Brian K Graham	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11270SLA026	10/07/2011 23:07	Gregory J Drahovsky	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11270SLA026	09/28/2011 09:40	Roza S Goslawska	1
00381	BNA Soil Sonication	SW-846 3550B	2	11277SLD026	10/05/2011 08:20	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112690021A	09/30/2011 23:22	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112690003A	09/27/2011 15:52	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112690019A	10/02/2011 23:40	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670056A	09/30/2011 23:19	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112690019A	09/29/2011 12:15	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670056A	09/28/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112690021A	09/29/2011 02:00	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112690003A	09/27/2011 07:00	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112670066A	09/26/2011 23:35	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112730030A	09/30/2011 20:53	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112720009A	10/01/2011 04:06	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112720035A	10/04/2011 07:25	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112720035A	09/30/2011 08:10	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112720009A	09/29/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112670066A	09/26/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112730030A	09/30/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112665708002	09/30/2011 21:49	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112665708002	09/30/2011 21:49	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112665708002	09/30/2011 21:49	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708001	10/06/2011 13:17	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112665708002	09/30/2011 21:49	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112665708002	09/30/2011 21:49	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112665708002	09/30/2011 21:49	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112665708002	09/30/2011 21:49	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112665708002	09/30/2011 21:49	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112665708002	09/30/2011 21:49	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112665708002	09/30/2011 21:49	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112665708002	09/30/2011 21:49	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112665708002	09/30/2011 21:49	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112665708002	09/30/2011 21:49	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112661026001A	09/26/2011 12:00	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-061-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA7-SS-0.0-0.5

LLI Sample # SW 6415777
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 11:50

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14420 Albemarle Point Place
Suite 210
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E5002 SDG#: DE250-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	112661026001A	09/26/2011 12:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112661026001D	09/26/2011 12:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112661026001A	09/26/2011 12:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112661026001A	09/26/2011 12:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112661026001A	09/26/2011 12:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112661026001A	09/26/2011 12:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112661026001A	09/26/2011 12:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112661026001A	09/26/2011 12:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112661026001C	09/26/2011 12:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112661026001A	09/26/2011 12:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112661026001B	09/26/2011 12:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112661026001A	09/26/2011 12:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112661026001A	09/26/2011 12:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112661026001A	09/26/2011 12:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112661026001A	09/26/2011 12:57	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	112665711005	09/26/2011 10:11	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112665708002	09/25/2011 19:59	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708001	10/04/2011 22:20	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708001	10/05/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112661026001	09/25/2011 20:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112665711005	09/26/2011 00:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621201A	10/01/2011 01:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11266373204A	10/05/2011 04:23	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243203A	10/04/2011 18:05	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11277102201A	10/04/2011 19:29	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621201A	09/30/2011 05:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266373204A	09/23/2011 18:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11277102201A	10/04/2011 10:00	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11277039402A	10/04/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243203A	10/03/2011 12:00	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162401B	09/28/2011 22:01	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-119-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA7-SS-0.0-0.5

LLI Sample # SW 6415778
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:35

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5003 SDG#: DE250-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	840	U	840	2,500		5
04688	Benzidine	92-87-5	5,900	U	5,900	17,000		5
04688	Benzo(b)fluoranthene	205-99-2	190	J	84	840		5
04688	Benzoic acid	65-85-0	840	U	840	2,500		5
04688	Benzyl alcohol	100-51-6	840	U	840	2,500		5
04688	4-Bromophenyl-phenylether	101-55-3	84	U	84	840		5
04688	Butylbenzylphthalate	85-68-7	84	U	84	840		5
04688	Di-n-butylphthalate	84-74-2	84	U	84	840		5
04688	Carbazole	86-74-8	84	U	84	840		5
04688	4-Chloro-3-methylphenol	59-50-7	170	U	170	840		5
04688	4-Chloroaniline	106-47-8	340	U	340	840		5
04688	bis(2-Chloroethoxy)methane	111-91-1	84	U	84	840		5
04688	bis(2-Chloroethyl)ether	111-44-4	84	U	84	840		5
04688	bis(2-Chloroisopropyl)ether	39638-32-9	84	U	84	840		5
04688	2-Chloronaphthalene	91-58-7	84	U	84	840		5
04688	2-Chlorophenol	95-57-8	84	U	84	840		5
04688	4-Chlorophenyl-phenylether	7005-72-3	170	U	170	840		5
04688	Chrysene	218-01-9	100	J	84	840		5
04688	Dibenzofuran	132-64-9	84	U	84	840		5
04688	1,2-Dichlorobenzene	95-50-1	84	U	84	840		5
04688	1,3-Dichlorobenzene	541-73-1	84	U	84	840		5
04688	1,4-Dichlorobenzene	106-46-7	84	U	84	840		5
04688	3,3'-Dichlorobenzidine	91-94-1	510	U	510	1,700		5
04688	2,4-Dichlorophenol	120-83-2	84	U	84	840		5
04688	Diethylphthalate	84-66-2	84	U	84	840		5
04688	2,4-Dimethylphenol	105-67-9	170	U	170	840		5
04688	3,5-Dimethylphenol	108-68-9	170	U	170	840		5
04688	Dimethylphthalate	131-11-3	84	U	84	840		5
04688	4,6-Dinitro-2-methylphenol	534-52-1	840	U	840	2,500		5
04688	2,4-Dinitrophenol	51-28-5	1,700	U	1,700	5,100		5
04688	2,4-Dinitrotoluene	121-14-2	170	U	170	840		5
04688	2,6-Dinitrotoluene	606-20-2	84	U	84	840		5
04688	1,2-Diphenylhydrazine	122-66-7	84	U	84	840		5
04688	bis(2-Ethylhexyl)phthalate	117-81-7	85	J	84	1,700		5
04688	Fluoranthene	206-44-0	140	J	84	840		5
04688	Hexachlorobenzene	118-74-1	84	U	84	840		5
04688	Hexachlorobutadiene	87-68-3	340	U	340	840		5
04688	Hexachlorocyclopentadiene	77-47-4	840	U	840	2,500		5
04688	Hexachloroethane	67-72-1	84	U	84	840		5
04688	Isophorone	78-59-1	84	U	84	840		5
04688	2-Methylphenol	95-48-7	170	U	170	840		5
04688	4-Methylphenol	106-44-5	170	U	170	840		5
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	84	U	84	840		5
04688	3-Nitroaniline	99-09-2	170	U	170	840		5
04688	4-Nitroaniline	100-01-6	340	U	340	840		5
04688	Nitrobenzene	98-95-3	84	U	84	840		5
04688	2-Nitrophenol	88-75-5	84	U	84	840		5

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SSFL Area IV Collocated Soil Sampling
SL-119-SA7-SS-0.0-0.5

LLI Sample # SW 6415778
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:35

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5003 SDG#: DE250-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4-Nitrophenol	100-02-7	840	U	840	2,500		5
04688	N-Nitroso-di-n-propylamine	621-64-7	84	U	84	840		5
04688	N-Nitrosodiphenylamine	86-30-6	84	U	84	840		5
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	84	U	84	840		5
04688	Pentachlorophenol	87-86-5	840	U	840	2,500		5
04688	Phenol	108-95-2	84	U	84	840		5
04688	Tetralin	119-64-2	840	U	840	840		5
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	84	U	84	840		5
04688	2,4,5-Trichlorophenol	95-95-4	170	U	170	840		5
04688	2,4,6-Trichlorophenol	88-06-2	170	U	170	840		5
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	13	U	13	33		20
10138	Acenaphthylene	208-96-8	6.7	U	6.7	33		20
10138	Anthracene	120-12-7	6.7	U	6.7	33		20
10138	Benzo(a)anthracene	56-55-3	13	U	13	33		20
10138	Benzo(a)pyrene	50-32-8	13	U	13	33		20
10138	Benzo(g,h,i)perylene	191-24-2	24	J	13	33		20
10138	Benzo(k)fluoranthene	207-08-9	13	U	13	33		20
10138	Dibenz(a,h)anthracene	53-70-3	13	U	13	33		20
10138	Fluorene	86-73-7	13	U	13	33		20
10138	Indeno(1,2,3-cd)pyrene	193-39-5	13	U	13	33		20
10138	1-Methylnaphthalene	90-12-0	13	U	13	33		20
10138	2-Methylnaphthalene	91-57-6	13	U	13	33		20
10138	Naphthalene	91-20-3	13	U	13	33		20
10138	N-Nitrosodimethylamine	62-75-9	13	U	13	33		20
10138	Phenanthrene	85-01-8	13	U	13	33		20
10138	Pyrene	129-00-0	15	J	13	33		20
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	7.1	U	7.1	7.1		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	81	U	81	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.28	U	0.28	0.28		1
10401	2,4,5-TP	93-72-1	0.11	J	0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does							

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SL-119-SA7-SS-0.0-0.5

LLI Sample # SW 6415778
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:35

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CDM Federal Programs Corp.
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Suite 210
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E5003 SDG#: DE250-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.1	U	2.1	5.1		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.33	U	0.33	0.84		5
01363	Alpha BHC	319-84-6	0.17	U	0.17	0.84		5
01363	Beta BHC	319-85-7	0.30	U	0.30	0.84		5
01363	Gamma BHC - Lindane	58-89-9	0.17	U	0.17	0.84		5
01363	Chlordane	57-74-9	4.1	U	4.1	17		5
01363	p,p-DDD	72-54-8	0.33	U	0.33	1.7		5
01363	p,p-DDE	72-55-9	0.46	U	0.46	1.7		5
01363	p,p-DDT	50-29-3	2.7		0.33	1.7		5
01363	Delta BHC	319-86-8	0.18	U	0.18	0.84		5
01363	Dieldrin	60-57-1	0.33	U	0.33	1.7		5
01363	Endosulfan I	959-98-8	0.22	U	0.22	0.84		5
01363	Endosulfan II	33213-65-9	0.33	U	0.33	1.7		5
01363	Endosulfan Sulfate	1031-07-8	0.33	U	0.33	1.7		5
01363	Endrin	72-20-8	0.33	U	0.33	1.7		5
01363	Endrin Aldehyde	7421-93-4	0.33	U	0.33	1.7		5
01363	Endrin Ketone	53494-70-5	0.33	U	0.33	1.7		5
01363	Heptachlor	76-44-8	0.30	U	0.30	0.84		5
01363	Heptachlor Epoxide	1024-57-3	0.17	U	0.17	0.84		5
01363	Methoxychlor	72-43-5	1.7	U	1.7	8.4		5
01363	Mirex	2385-85-5	0.39	U	0.39	1.7		5
01363	Toxaphene	8001-35-2	11	U	11	33		5
	The sample was injected following maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.9	J	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1
10225	PCB-1260	11096-82-5	2.0		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	510		1

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Sample Description: **SL-119-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA7-SS-0.0-0.5

LLI Sample # SW 6415778
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E5003 SDG#: DE250-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	40	U	40	120		20
10199	EFH (C15-C20)	n.a.	40	U	40	120		20
10199	EFH (C21-C30)	n.a.	630		40	120		20
10199	EFH (C30 - C40)	n.a.	1,800		40	120		20
10199	EFH (C8-C11)	n.a.	40	U	40	120		20
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,600		5.89	19.5		1
07914	Boron	7440-42-8	0.351	U	0.351	4.87		1
01650	Calcium	7440-70-2	3,720		2.44	19.5		1
01654	Iron	7439-89-6	22,700		2.54	19.5		1
01656	Lithium	7439-93-2	21.9		0.60	1.9		1
01657	Magnesium	7439-95-4	4,220		0.429	9.74		1
06958	Manganese	7439-96-5	291		0.0351	0.487		1
10145	Phosphorus	7723-14-0	437		0.341	9.74		1
01662	Potassium	7440-09-7	3,790		11.0	48.7		1
01667	Sodium	7440-23-5	82.9	J	5.80	97.4		1
07968	Strontium	7440-24-6	19.2		0.0244	0.487		1
06969	Tin	7440-31-5	3.04	J	0.312	9.74		1
06970	Titanium	7440-32-6	1,190		0.0692	0.974		1
10146	Zirconium	7440-67-7	2.96	J	0.448	4.87		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.292		0.0728	0.197		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.63		0.0787	0.393		2
06126	Barium	7440-39-3	126		0.104	0.393		2
06127	Beryllium	7440-41-7	0.710		0.0157	0.0984		2

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SSFL Area IV Collocated Soil Sampling
SL-119-SA7-SS-0.0-0.5

LLI Sample # SW 6415778
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E5003 SDG#: DE250-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	0.373		0.0433	0.0984		2
06131	Chromium	7440-47-3	24.6		0.118	0.393		2
06132	Cobalt	7440-48-4	7.57		0.0197	0.0984		2
06133	Copper	7440-50-8	14.0		0.0787	0.393		2
06135	Lead	7439-92-1	16.9		0.0100	0.197		2
06138	Molybdenum	7439-98-7	0.957		0.0492	0.0984		2
06139	Nickel	7440-02-0	17.9		0.0984	0.393		2
06141	Selenium	7782-49-2	0.160	J	0.0571	0.393		2
06142	Silver	7440-22-4	0.0461	J	0.0140	0.0984		2
06145	Thallium	7440-28-0	0.350		0.0295	0.0984		2
06148	Vanadium	7440-62-2	47.4		0.0216	0.0984		2
06149	Zinc	7440-66-6	140		0.551	2.95		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0215	J	0.0069	0.0984		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80	U	0.80	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.49		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	5.87		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-119-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA7-SS-0.0-0.5

LLI Sample # SW 6415778
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:35

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5003 SDG#: DE250-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11277SLD026	10/06/2011 11:27	Brian K Graham	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11270SLA026	10/08/2011 00:43	Gregory J Drahovsky	20
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11270SLA026	09/28/2011 09:40	Roza S Goslawska	1
00381	BNA Soil Sonication	SW-846 3550B	2	11277SLD026	10/05/2011 08:20	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112690021A	09/30/2011 23:49	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112690003A	09/27/2011 16:05	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112690019A	10/03/2011 00:10	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112770010A	10/05/2011 11:44	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112690019A	09/29/2011 12:15	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	112770010A	10/04/2011 19:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112690021A	09/29/2011 02:00	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112690003A	09/27/2011 07:00	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112670066A	09/26/2011 20:07	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112730030A	09/30/2011 21:06	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112720009A	10/01/2011 04:33	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112720035A	10/04/2011 07:49	Heather E Williams	20
11238	EFH Extraction - Soils	SW-846 3550B	1	112720035A	09/30/2011 08:10	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112720009A	09/29/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112670066A	09/26/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112730030A	09/30/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112665708002	09/30/2011 21:53	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112665708002	09/30/2011 21:53	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112665708002	09/30/2011 21:53	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708001	10/06/2011 13:28	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112665708002	09/30/2011 21:53	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112665708002	09/30/2011 21:53	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112665708002	09/30/2011 21:53	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112665708002	09/30/2011 21:53	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112665708002	09/30/2011 21:53	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112665708002	09/30/2011 21:53	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112665708002	09/30/2011 21:53	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112665708002	09/30/2011 21:53	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112665708002	09/30/2011 21:53	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112665708002	09/30/2011 21:53	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112661026001A	09/26/2011 12:09	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-119-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA7-SS-0.0-0.5

LLI Sample # SW 6415778
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:35

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5003 SDG#: DE250-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	112661026001A	09/26/2011 12:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112661026001D	09/26/2011 12:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112661026001A	09/26/2011 12:09	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112661026001A	09/26/2011 12:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112661026001A	09/26/2011 12:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112661026001A	09/26/2011 12:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112661026001A	09/26/2011 12:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112661026001A	09/26/2011 12:09	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112661026001C	09/26/2011 12:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112661026001A	09/26/2011 12:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112661026001B	09/26/2011 12:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112661026001A	09/26/2011 12:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112661026001A	09/26/2011 12:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112661026001A	09/26/2011 12:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112661026001A	09/26/2011 12:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112665711005	09/26/2011 10:13	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112665708002	09/25/2011 19:59	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708001	10/04/2011 22:20	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708001	10/05/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112661026001	09/25/2011 20:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112665711005	09/26/2011 00:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621201A	10/01/2011 01:25	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11266373204A	10/05/2011 04:46	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243203A	10/04/2011 18:20	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11277102201A	10/04/2011 19:30	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621201A	09/30/2011 05:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266373204A	09/23/2011 18:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11277102201A	10/04/2011 10:00	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11277039402A	10/04/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243203A	10/03/2011 12:00	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162401B	09/28/2011 22:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-120-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415779
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5004 SDG#: DE250-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	4,300	U	4,300	13,000		5
04688	Benzidine	92-87-5	30,000	U	30,000	85,000		5
04688	Benzoic acid	65-85-0	4,300	U	4,300	13,000		5
04688	Benzyl alcohol	100-51-6	4,300	U	4,300	13,000		5
04688	4-Bromophenyl-phenylether	101-55-3	430	U	430	4,300		5
04688	Carbazole	86-74-8	430	U	430	4,300		5
04688	4-Chloro-3-methylphenol	59-50-7	850	U	850	4,300		5
04688	4-Chloroaniline	106-47-8	1,700	U	1,700	4,300		5
04688	bis(2-Chloroethoxy)methane	111-91-1	430	U	430	4,300		5
04688	bis(2-Chloroethyl)ether	111-44-4	430	U	430	4,300		5
04688	bis(2-Chloroisopropyl)ether	39638-32-9	430	U	430	4,300		5
04688	2-Chloronaphthalene	91-58-7	430	U	430	4,300		5
04688	2-Chlorophenol	95-57-8	430	U	430	4,300		5
04688	4-Chlorophenyl-phenylether	7005-72-3	850	U	850	4,300		5
04688	Dibenzofuran	132-64-9	430	U	430	4,300		5
04688	1,2-Dichlorobenzene	95-50-1	430	U	430	4,300		5
04688	1,3-Dichlorobenzene	541-73-1	430	U	430	4,300		5
04688	1,4-Dichlorobenzene	106-46-7	430	U	430	4,300		5
04688	3,3'-Dichlorobenzidine	91-94-1	2,600	U	2,600	8,500		5
04688	2,4-Dichlorophenol	120-83-2	430	U	430	4,300		5
04688	2,4-Dimethylphenol	105-67-9	850	U	850	4,300		5
04688	3,5-Dimethylphenol	108-68-9	850	U	850	4,300		5
04688	4,6-Dinitro-2-methylphenol	534-52-1	4,300	U	4,300	13,000		5
04688	2,4-Dinitrophenol	51-28-5	8,500	U	8,500	26,000		5
04688	2,4-Dinitrotoluene	121-14-2	850	U	850	4,300		5
04688	2,6-Dinitrotoluene	606-20-2	430	U	430	4,300		5
04688	1,2-Diphenylhydrazine	122-66-7	430	U	430	4,300		5
04688	Hexachlorobenzene	118-74-1	430	U	430	4,300		5
04688	Hexachlorobutadiene	87-68-3	1,700	U	1,700	4,300		5
04688	Hexachlorocyclopentadiene	77-47-4	4,300	U	4,300	13,000		5
04688	Hexachloroethane	67-72-1	430	U	430	4,300		5
04688	Isophorone	78-59-1	430	U	430	4,300		5
04688	2-Methylphenol	95-48-7	850	U	850	4,300		5
04688	4-Methylphenol	106-44-5	850	U	850	4,300		5
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	430	U	430	4,300		5
04688	3-Nitroaniline	99-09-2	850	U	850	4,300		5
04688	4-Nitroaniline	100-01-6	1,700	U	1,700	4,300		5
04688	Nitrobenzene	98-95-3	430	U	430	4,300		5
04688	2-Nitrophenol	88-75-5	430	U	430	4,300		5
04688	4-Nitrophenol	100-02-7	4,300	U	4,300	13,000		5
04688	N-Nitroso-di-n-propylamine	621-64-7	430	U	430	4,300		5
04688	N-Nitrosodiphenylamine	86-30-6	430	U	430	4,300		5
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	4,300	U	4,300	13,000		5
04688	Phenol	108-95-2	430	U	430	4,300		5

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Sample Description: SL-120-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415779
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5004 SDG#: DE250-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	4,300	U	4,300	4,300		5
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	430	U	430	4,300		5
04688	2,4,5-Trichlorophenol	95-95-4	850	U	850	4,300		5
04688	2,4,6-Trichlorophenol	88-06-2	850	U	850	4,300		5
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	14	U	14	34		20
10138	Acenaphthylene	208-96-8	6.8	U	6.8	34		20
10138	Anthracene	120-12-7	6.8	U	6.8	34		20
10138	Benzo(a)anthracene	56-55-3	23	J	14	34		20
10138	Benzo(a)pyrene	50-32-8	34		14	34		20
10138	Benzo(b)fluoranthene	205-99-2	110		14	34		20
10138	Benzo(g,h,i)perylene	191-24-2	24	J	14	34		20
10138	Benzo(k)fluoranthene	207-08-9	25	J	14	34		20
10138	Butylbenzylphthalate	85-68-7	120	U	120	370		20
10138	Di-n-butylphthalate	84-74-2	120	U	120	370		20
10138	Chrysene	218-01-9	110		6.8	34		20
10138	Dibenz(a,h)anthracene	53-70-3	14	U	14	34		20
10138	Diethylphthalate	84-66-2	120	U	120	370		20
10138	Dimethylphthalate	131-11-3	120	U	120	370		20
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	340	J	120	370		20
10138	Fluoranthene	206-44-0	98		14	34		20
10138	Fluorene	86-73-7	14	U	14	34		20
10138	Indeno(1,2,3-cd)pyrene	193-39-5	14	J	14	34		20
10138	1-Methylnaphthalene	90-12-0	14	U	14	34		20
10138	2-Methylnaphthalene	91-57-6	14	U	14	34		20
10138	Naphthalene	91-20-3	14	U	14	34		20
10138	N-Nitrosodimethylamine	62-75-9	14	U	14	34		20
10138	Di-n-octylphthalate	117-84-0	120	U	120	370		20
10138	Phenanthrene	85-01-8	57		14	34		20
10138	Pyrene	129-00-0	78		14	34		20
	Reporting limits were raised due to interference from the sample matrix.							
	The GC/MS semivolatile internal standard peak areas were outside of QC limits. The matrix spike and matrix spike duplicate samples were analyzed and internal standard peak areas were again outside of QC limits, indicating a matrix effect.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	0.63	U	0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-120-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415779
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5004 SDG#: DE250-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	MCPA	94-74-6	78	U	78	260		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	0.69		0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.087	J	0.077	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.2	U	2.2	5.1		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.34	U	0.34	0.85		5
01363	Alpha BHC	319-84-6	0.17	U	0.17	0.85		5
01363	Beta BHC	319-85-7	0.31	U	0.31	0.85		5
01363	Gamma BHC - Lindane	58-89-9	0.17	U	0.17	0.85		5
01363	Chlordane	57-74-9	11	J	4.1	17		5
01363	p,p-DDD	72-54-8	0.59	U	0.59	1.7		5
01363	p,p-DDE	72-55-9	2.1		0.34	1.7		5
01363	p,p-DDT	50-29-3	10		0.34	1.7		5
01363	Delta BHC	319-86-8	0.18	U	0.18	0.85		5
01363	Dieldrin	60-57-1	0.34	U	0.34	1.7		5
01363	Endosulfan I	959-98-8	0.22	U	0.22	0.85		5
01363	Endosulfan II	33213-65-9	0.34	U	0.34	1.7		5
01363	Endosulfan Sulfate	1031-07-8	0.55	U	0.55	1.7		5
01363	Endrin	72-20-8	0.34	U	0.34	1.7		5
01363	Endrin Aldehyde	7421-93-4	0.44	U	0.44	1.7		5
01363	Endrin Ketone	53494-70-5	0.34	U	0.34	1.7		5
01363	Heptachlor	76-44-8	0.31	U	0.31	0.85		5
01363	Heptachlor Epoxide	1024-57-3	0.26	U	0.26	0.85		5
01363	Methoxychlor	72-43-5	2.2	U	2.2	8.5		5
01363	Mirex	2385-85-5	2.2	U	2.2	2.2		5
01363	Toxaphene	8001-35-2	77	U	77	77		5
	The sample was injected following maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	6.1		1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	2.8		0.34	1.7		1

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Sample Description: SL-120-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415779
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5004 SDG#: DE250-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	1.3	J	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	100	U	100	310		50
10199	EFH (C15-C20)	n.a.	100	U	100	310		50
10199	EFH (C21-C30)	n.a.	1,200		100	310		50
10199	EFH (C30 - C40)	n.a.	3,700		100	310		50
10199	EFH (C8-C11)	n.a.	100	U	100	310		50
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,300		6.21	20.5		1
07914	Boron	7440-42-8	4.77	J	0.369	5.13		1
01650	Calcium	7440-70-2	4,560		2.56	20.5		1
01654	Iron	7439-89-6	19,300		2.68	20.5		1
01656	Lithium	7439-93-2	19.4		0.64	2.1		1
01657	Magnesium	7439-95-4	4,020		0.451	10.3		1
06958	Manganese	7439-96-5	289		0.0369	0.513		1
10145	Phosphorus	7723-14-0	445		0.359	10.3		1
01662	Potassium	7440-09-7	3,920		11.6	51.3		1
01667	Sodium	7440-23-5	84.3	J	6.10	103		1
07968	Strontium	7440-24-6	23.2		0.0256	0.513		1
06969	Tin	7440-31-5	3.30	J	0.328	10.3		1
06970	Titanium	7440-32-6	1,090		0.0728	1.03		1
10146	Zirconium	7440-67-7	3.08	J	0.472	5.13		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.261		0.0759	0.205		2

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Sample Description: **SL-120-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415779
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5004 SDG#: DE250-04BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.05		0.0821	0.410		2
06126	Barium	7440-39-3	101		0.109	0.410		2
06127	Beryllium	7440-41-7	0.550		0.0164	0.103		2
06128	Cadmium	7440-43-9	0.466		0.0451	0.103		2
06131	Chromium	7440-47-3	20.4		0.123	0.410		2
06132	Cobalt	7440-48-4	6.02		0.0205	0.103		2
06133	Copper	7440-50-8	13.2		0.0821	0.410		2
06135	Lead	7439-92-1	24.9		0.0105	0.205		2
06138	Molybdenum	7439-98-7	0.810		0.0513	0.103		2
06139	Nickel	7440-02-0	16.4		0.103	0.410		2
06141	Selenium	7782-49-2	0.194	J	0.0595	0.410		2
06142	Silver	7440-22-4	0.0531	J	0.0146	0.103		2
06145	Thallium	7440-28-0	0.282		0.0308	0.103		2
06148	Vanadium	7440-62-2	36.9		0.0226	0.103		2
06149	Zinc	7440-66-6	172		1.44	7.69		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0266	J	0.0068	0.0967		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.83	U	0.83	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.23	J	0.18	0.49		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	5.91		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: **SL-120-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415779
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5004 SDG#: DE250-04BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11277SLD026	10/06/2011 08:55	Brian K Graham	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11270SLA026	10/08/2011 02:20	Gregory J Drahovsky	20
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11270SLA026	09/28/2011 09:40	Roza S Goslawska	1
00381	BNA Soil Sonication	SW-846 3550B	2	11277SLD026	10/05/2011 08:20	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112690021A	09/30/2011 21:32	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112690003A	09/27/2011 16:17	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112690019A	10/03/2011 00:25	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112770010A	10/05/2011 12:03	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112690019A	09/29/2011 12:15	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	112770010A	10/04/2011 19:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112690021A	09/29/2011 02:00	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112690003A	09/27/2011 07:00	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112670066A	09/26/2011 20:22	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112730030A	09/30/2011 21:19	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112720009A	10/01/2011 05:01	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112720035A	10/04/2011 08:37	Heather E Williams	50
11238	EFH Extraction - Soils	SW-846 3550B	1	112720035A	09/30/2011 08:10	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112720009A	09/29/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112670066A	09/26/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112730030A	09/30/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112665708002	09/30/2011 21:14	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112665708002	09/30/2011 21:14	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112665708002	09/30/2011 21:14	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708001	10/06/2011 12:50	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112665708002	09/30/2011 21:14	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112665708002	09/30/2011 21:14	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112665708002	09/30/2011 21:14	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112665708002	09/30/2011 21:14	John W Yanzuk II	1

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Sample Description: **SL-120-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415779
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5004 SDG#: DE250-04BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	112665708002	09/30/2011 21:14	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112665708002	09/30/2011 21:14	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112665708002	09/30/2011 21:14	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112665708002	09/30/2011 21:14	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112665708002	09/30/2011 21:14	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112665708002	09/30/2011 21:14	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112661026001A	09/26/2011 11:37	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112661026001A	09/26/2011 11:37	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112661026001D	09/26/2011 11:37	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112661026001A	09/26/2011 11:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112661026001A	09/26/2011 11:37	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112661026001A	09/26/2011 11:37	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112661026001A	09/26/2011 11:37	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112661026001A	09/26/2011 11:37	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112661026001A	09/26/2011 11:37	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112661026001C	09/26/2011 11:37	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112661026001A	09/26/2011 11:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112661026001B	09/26/2011 11:37	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112661026001A	09/26/2011 11:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112661026001A	09/26/2011 11:37	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112661026001A	09/26/2011 11:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112661026001A	09/27/2011 18:00	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	112665711005	09/26/2011 10:14	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112665708002	09/25/2011 19:59	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708001	10/04/2011 22:20	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708001	10/05/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112661026001	09/25/2011 20:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112665711005	09/26/2011 00:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621201A	09/30/2011 23:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11266373204A	10/05/2011 02:28	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243203A	10/04/2011 18:34	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11277102201A	10/04/2011 19:31	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621201A	09/30/2011 05:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266373204A	09/23/2011 18:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11277102201A	10/04/2011 10:00	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11277039402A	10/04/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243203A	10/03/2011 12:00	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-120-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415779
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5004 SDG#: DE250-04BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162401B	09/28/2011 22:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-120-SA7-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415780
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5004 SDG#: DE250-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600	J	420	4,200		5
04688	Acenaphthylene	208-96-8	1,700	J	420	4,200		5
04688	Aniline	62-53-3	4,200	U	4,200	13,000		5
04688	Anthracene	120-12-7	1,700	J	420	4,200		5
04688	Benzidine	92-87-5	30,000	U	30,000	85,000		5
04688	Benzo(a)anthracene	56-55-3	1,600	J	420	4,200		5
04688	Benzo(a)pyrene	50-32-8	1,900	J	420	4,200		5
04688	Benzo(b)fluoranthene	205-99-2	2,000	J	420	4,200		5
04688	Benzo(g,h,i)perylene	191-24-2	1,700	J	420	4,200		5
04688	Benzo(k)fluoranthene	207-08-9	1,500	J	420	4,200		5
04688	Benzoic acid	65-85-0	4,200	U	4,200	13,000		5
04688	Benzyl alcohol	100-51-6	4,200	U	4,200	13,000		5
04688	4-Bromophenyl-phenylether	101-55-3	1,600	J	420	4,200		5
04688	Butylbenzylphthalate	85-68-7	4,900		420	4,200		5
04688	Di-n-butylphthalate	84-74-2	1,600	J	420	4,200		5
04688	Carbazole	86-74-8	1,600	J	420	4,200		5
04688	4-Chloro-3-methylphenol	59-50-7	1,600	J	850	4,200		5
04688	4-Chloroaniline	106-47-8	1,700	U	1,700	4,200		5
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700	J	420	4,200		5
04688	bis(2-Chloroethyl)ether	111-44-4	1,600	J	420	4,200		5
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700	J	420	4,200		5
04688	2-Chloronaphthalene	91-58-7	1,200	J	420	4,200		5
04688	2-Chlorophenol	95-57-8	1,700	J	420	4,200		5
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700	J	850	4,200		5
04688	Chrysene	218-01-9	1,600	J	420	4,200		5
04688	Dibenz(a,h)anthracene	53-70-3	1,600	J	420	4,200		5
04688	Dibenzofuran	132-64-9	1,600	J	420	4,200		5
04688	1,2-Dichlorobenzene	95-50-1	1,500	J	420	4,200		5
04688	1,3-Dichlorobenzene	541-73-1	1,500	J	420	4,200		5
04688	1,4-Dichlorobenzene	106-46-7	1,500	J	420	4,200		5
04688	3,3'-Dichlorobenzidine	91-94-1	2,500	U	2,500	8,500		5
04688	2,4-Dichlorophenol	120-83-2	1,500	J	420	4,200		5
04688	Diethylphthalate	84-66-2	1,600	J	420	4,200		5
04688	2,4-Dimethylphenol	105-67-9	1,500	J	850	4,200		5
04688	3,5-Dimethylphenol	108-68-9	1,600	J	850	4,200		5
04688	Dimethylphthalate	131-11-3	1,600	J	420	4,200		5
04688	4,6-Dinitro-2-methylphenol	534-52-1	5,000	J	4,200	13,000		5
04688	2,4-Dinitrophenol	51-28-5	8,500	U	8,500	25,000		5
04688	2,4-Dinitrotoluene	121-14-2	1,300	J	850	4,200		5
04688	2,6-Dinitrotoluene	606-20-2	1,500	J	420	4,200		5
04688	1,2-Diphenylhydrazine	122-66-7	1,500	J	420	4,200		5
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,100	J	420	8,500		5
04688	Fluoranthene	206-44-0	1,800	J	420	4,200		5
04688	Fluorene	86-73-7	1,700	J	420	4,200		5
04688	Hexachlorobenzene	118-74-1	1,500	J	420	4,200		5
04688	Hexachlorobutadiene	87-68-3	1,700	U	1,700	4,200		5
04688	Hexachlorocyclopentadiene	77-47-4	4,200	U	4,200	13,000		5
04688	Hexachloroethane	67-72-1	1,500	J	420	4,200		5
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,700	J	420	4,200		5
04688	Isophorone	78-59-1	1,600	J	420	4,200		5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-120-SA7-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415780
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5004 SDG#: DE250-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,500	J	420	4,200		5
04688	2-Methylnaphthalene	91-57-6	1,600	J	420	4,200		5
04688	2-Methylphenol	95-48-7	1,700	J	850	4,200		5
04688	4-Methylphenol	106-44-5	1,700	J	850	4,200		5
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,600	J	420	4,200		5
04688	2-Nitroaniline	88-74-4	1,500	J	420	4,200		5
04688	3-Nitroaniline	99-09-2	1,200	J	850	4,200		5
04688	4-Nitroaniline	100-01-6	1,700	U	1,700	4,200		5
04688	Nitrobenzene	98-95-3	1,600	J	420	4,200		5
04688	2-Nitrophenol	88-75-5	1,500	J	420	4,200		5
04688	4-Nitrophenol	100-02-7	4,200	U	4,200	13,000		5
04688	N-Nitrosodimethylamine	62-75-9	1,700	J	850	4,200		5
04688	N-Nitroso-di-n-propylamine	621-64-7	1,500	J	420	4,200		5
04688	N-Nitrosodiphenylamine	86-30-6	1,700	J	420	4,200		5
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	2,000	J	420	4,200		5
04688	Pentachlorophenol	87-86-5	4,200	U	4,200	13,000		5
04688	Phenanthrene	85-01-8	1,700	J	420	4,200		5
04688	Phenol	108-95-2	1,700	J	420	4,200		5
04688	Pyrene	129-00-0	1,700	J	420	4,200		5
04688	Tetralin	119-64-2	4,200	U	4,200	4,200		5
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	1,500	J	420	4,200		5
04688	2,4,5-Trichlorophenol	95-95-4	1,600	J	850	4,200		5
04688	2,4,6-Trichlorophenol	88-06-2	1,600	J	850	4,200		5
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	38		14	34		20
10138	Acenaphthylene	208-96-8	38		6.8	34		20
10138	Anthracene	120-12-7	44		6.8	34		20
10138	Benzo(a)anthracene	56-55-3	65		14	34		20
10138	Benzo(a)pyrene	50-32-8	92		14	34		20
10138	Benzo(b)fluoranthene	205-99-2	250		14	34		20
10138	Benzo(g,h,i)perylene	191-24-2	39		14	34		20
10138	Benzo(k)fluoranthene	207-08-9	98		14	34		20
10138	Butylbenzylphthalate	85-68-7	120	U	120	370		20
10138	Di-n-butylphthalate	84-74-2	120	U	120	370		20
10138	Chrysene	218-01-9	190		6.8	34		20
10138	Dibenz(a,h)anthracene	53-70-3	30	J	14	34		20
10138	Diethylphthalate	84-66-2	120	U	120	370		20
10138	Dimethylphthalate	131-11-3	120	U	120	370		20
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	520		120	370		20

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-120-SA7-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415780
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5004 SDG#: DE250-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	220		14	34		20
10138	Fluorene	86-73-7	40		14	34		20
10138	Indeno(1,2,3-cd)pyrene	193-39-5	33	J	14	34		20
10138	1-Methylnaphthalene	90-12-0	37		14	34		20
10138	2-Methylnaphthalene	91-57-6	37		14	34		20
10138	Naphthalene	91-20-3	36		14	34		20
10138	N-Nitrosodimethylamine	62-75-9	32	J	14	34		20
10138	Di-n-octylphthalate	117-84-0	140	J	120	370		20
10138	Phenanthrene	85-01-8	150		14	34		20
10138	Pyrene	129-00-0	190		14	34		20

Reporting limits were raised due to interference from the sample matrix.

The GC/MS semivolatile internal standard peak areas were outside of QC limits. The background and matrix spike duplicate samples were analyzed and internal standard peak areas were again outside of QC limits, indicating a matrix effect.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	2.0		0.64	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	1.7	J	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.12	J	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.17		0.077	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	110		2.2	5.1		1

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.19		0.068	0.17		1
01363	Alpha BHC	319-84-6	0.21		0.035	0.17		1
01363	Beta BHC	319-85-7	0.21		0.062	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.28		0.035	0.17		1
01363	Chlordane	57-74-9	5.8		0.82	3.5		1
01363	p,p-DDD	72-54-8	1.1		0.068	0.35		1
01363	p,p-DDE	72-55-9	1.9		0.068	0.35		1
01363	p,p-DDT	50-29-3	8.4		0.068	0.35		1
01363	Delta BHC	319-86-8	0.24		0.037	0.17		1
01363	Dieldrin	60-57-1	0.61		0.068	0.35		1
01363	Endosulfan I	959-98-8	0.067	J	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.83		0.068	0.35		1
01363	Endosulfan Sulfate	1031-07-8	1.2		0.068	0.35		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-120-SA7-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415780
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5004 SDG#: DE250-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Endrin	72-20-8	0.068	U	0.068	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.068	U	0.068	0.35		1
01363	Endrin Ketone	53494-70-5	0.86		0.068	0.35		1
01363	Heptachlor	76-44-8	0.18		0.062	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.30		0.035	0.17		1
01363	Methoxychlor	72-43-5	1.9		0.35	1.7		1
01363	Mirex	2385-85-5	0.068	U	0.068	0.35		1
01363	Toxaphene	8001-35-2	48	U	48	48		1

The sample was injected following maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	15		0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	6.5		0.34	1.7		1
10225	PCB-1260	11096-82-5	16		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,200		100	510		1
10501	Isopropanol	67-63-0	2,400		100	510		1
10501	Methanol	67-56-1	2,300		100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	11		5.1	10		1
08283	Ethylene glycol	107-21-1	59		5.1	10		1
08283	Propylene glycol	57-55-6	81		5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	7.8		1.5	3.6		1
10318	o-Terphenyl	84-15-1	7.7		1.5	3.6		1
10318	p-Terphenyl	92-94-4	7.9		1.5	3.6		1

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-120-SA7-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415780
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5004 SDG#: DE250-04MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	51	U	51	150		25
10199	EFH (C15-C20)	n.a.	51	U	51	150		25
10199	EFH (C21-C30)	n.a.	720		51	150		25
10199	EFH (C30 - C40)	n.a.	2,200		51	150		25
10199	EFH (C8-C11)	n.a.	51	U	51	150		25
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,400		6.21	20.5		1
07914	Boron	7440-42-8	209		0.369	5.13		1
01650	Calcium	7440-70-2	4,890		2.56	20.5		1
01654	Iron	7439-89-6	18,400		2.65	20.3		1
01656	Lithium	7439-93-2	122		0.64	2.1		1
01657	Magnesium	7439-95-4	4,340		0.451	10.3		1
06958	Manganese	7439-96-5	316		0.0369	0.513		1
10145	Phosphorus	7723-14-0	520		0.359	10.3		1
01662	Potassium	7440-09-7	5,270		11.6	51.3		1
01667	Sodium	7440-23-5	1,120		6.10	103		1
07968	Strontium	7440-24-6	124		0.0256	0.513		1
06969	Tin	7440-31-5	382		0.328	10.3		1
06970	Titanium	7440-32-6	1,380		0.0728	1.03		1
10146	Zirconium	7440-67-7	99.7		0.472	5.13		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.794		0.0744	0.201		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.75		0.0804	0.402		2
06126	Barium	7440-39-3	115		0.107	0.402		2
06127	Beryllium	7440-41-7	1.38		0.0161	0.101		2
06128	Cadmium	7440-43-9	1.62		0.0442	0.101		2
06131	Chromium	7440-47-3	39.0		0.121	0.402		2
06132	Cobalt	7440-48-4	65.2		0.0201	0.101		2
06133	Copper	7440-50-8	24.8		0.0804	0.402		2
06135	Lead	7439-92-1	29.7		0.0103	0.201		2
06138	Molybdenum	7439-98-7	12.6		0.0503	0.101		2
06139	Nickel	7440-02-0	29.3		0.101	0.402		2
06141	Selenium	7782-49-2	2.50		0.0583	0.402		2
06142	Silver	7440-22-4	11.9		0.0143	0.101		2
06145	Thallium	7440-28-0	0.711		0.0302	0.101		2
06148	Vanadium	7440-62-2	46.0		0.0221	0.101		2
06149	Zinc	7440-66-6	195		1.41	7.54		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.202		0.0072	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-120-SA7-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415780
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5004 SDG#: DE250-04MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.8	0.80	1.0		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	588	9.2	30.8		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	34.6	1.0	5.1		5
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	5.1	0.19	0.52		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	2.5	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11277SLD026	10/06/2011 09:20	Brian K Graham	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11270SLA026	10/08/2011 02:52	Gregory J Drahovsky	20
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11270SLA026	09/28/2011 09:40	Roza S Goslawska	1
00381	BNA Soil Sonication	SW-846 3550B	2	11277SLD026	10/05/2011 08:20	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112690021A	09/30/2011 21:59	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112690003A	09/27/2011 16:30	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112690019A	10/03/2011 04:53	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112770010A	10/05/2011 12:22	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112690019A	09/29/2011 12:15	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	112770010A	10/04/2011 19:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112690021A	09/29/2011 02:00	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112690003A	09/27/2011 07:00	Maria Davenport	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-120-SA7-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415780
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5004 SDG#: DE250-04MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10501	18a Alcohols by 8015B	SW-846 8015B	1	112670066A	09/26/2011 23:50	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112730030A	09/30/2011 21:32	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112720009A	10/01/2011 05:28	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112720035A	10/04/2011 08:13	Heather E Williams	25
11238	EFH Extraction - Soils	SW-846 3550B	1	112720035A	09/30/2011 08:10	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112720009A	09/29/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112670066A	09/26/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112730030A	09/30/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112665708002	09/30/2011 21:25	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112665708002	09/30/2011 21:25	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112665708002	09/30/2011 21:25	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708001	10/06/2011 13:01	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112665708002	09/30/2011 21:25	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112665708002	09/30/2011 21:25	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112665708002	09/30/2011 21:25	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112665708002	09/30/2011 21:25	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112665708002	09/30/2011 21:25	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112665708002	09/30/2011 21:25	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112665708002	09/30/2011 21:25	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112665708002	09/30/2011 21:25	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112665708002	09/30/2011 21:25	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112665708002	09/30/2011 21:25	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112661026001A	09/26/2011 11:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112661026001A	09/26/2011 11:47	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112661026001D	09/26/2011 11:47	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112661026001A	09/26/2011 11:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112661026001A	09/26/2011 11:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112661026001A	09/26/2011 11:47	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112661026001A	09/26/2011 11:47	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112661026001A	09/26/2011 11:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112661026001A	09/26/2011 11:47	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112661026001C	09/26/2011 11:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112661026001A	09/26/2011 11:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112661026001B	09/26/2011 11:47	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112661026001A	09/26/2011 11:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112661026001A	09/26/2011 11:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112661026001A	09/26/2011 11:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112661026001A	09/27/2011 18:06	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	112665711005	09/26/2011 10:18	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112665708002	09/25/2011 19:59	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708001	10/04/2011 22:20	Annamaria Stipkovits	1

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Sample Description: **SL-120-SA7-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415780
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5004 SDG#: DE250-04MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708001	10/05/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112661026001	09/25/2011 20:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112665711005	09/26/2011 00:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621201A	10/01/2011 00:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11266373204A	10/05/2011 03:14	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243203A	10/05/2011 10:23	Elyse P Brunstetter	5
05895	16a Cyanide by 9012B	SW-846 9012B	1	11277102201A	10/04/2011 19:34	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621201A	09/30/2011 05:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266373204A	09/23/2011 18:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11277102201A	10/04/2011 10:00	Nancy J Shoop	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243203A	10/03/2011 12:00	Yolunder Y Bunch	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162401B	09/28/2011 22:01	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-120-SA7-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415781
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5004 SDG#: DE250-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,700	J	430	4,300		5
04688	Acenaphthylene	208-96-8	1,900	J	430	4,300		5
04688	Aniline	62-53-3	4,300	U	4,300	13,000		5
04688	Anthracene	120-12-7	1,800	J	430	4,300		5
04688	Benzidine	92-87-5	30,000	U	30,000	85,000		5
04688	Benzo(a)anthracene	56-55-3	1,700	J	430	4,300		5
04688	Benzo(a)pyrene	50-32-8	1,800	J	430	4,300		5
04688	Benzo(b)fluoranthene	205-99-2	2,100	J	430	4,300		5
04688	Benzo(g,h,i)perylene	191-24-2	2,000	J	430	4,300		5
04688	Benzo(k)fluoranthene	207-08-9	1,900	J	430	4,300		5
04688	Benzoic acid	65-85-0	4,300	U	4,300	13,000		5
04688	Benzyl alcohol	100-51-6	4,300	U	4,300	13,000		5
04688	4-Bromophenyl-phenylether	101-55-3	1,700	J	430	4,300		5
04688	Butylbenzylphthalate	85-68-7	2,000	J	430	4,300		5
04688	Di-n-butylphthalate	84-74-2	1,700	J	430	4,300		5
04688	Carbazole	86-74-8	1,700	J	430	4,300		5
04688	4-Chloro-3-methylphenol	59-50-7	1,600	J	850	4,300		5
04688	4-Chloroaniline	106-47-8	1,700	U	1,700	4,300		5
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700	J	430	4,300		5
04688	bis(2-Chloroethyl)ether	111-44-4	1,800	J	430	4,300		5
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,800	J	430	4,300		5
04688	2-Chloronaphthalene	91-58-7	1,300	J	430	4,300		5
04688	2-Chlorophenol	95-57-8	1,800	J	430	4,300		5
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700	J	850	4,300		5
04688	Chrysene	218-01-9	1,800	J	430	4,300		5
04688	Dibenz(a,h)anthracene	53-70-3	1,800	J	430	4,300		5
04688	Dibenzofuran	132-64-9	1,700	J	430	4,300		5
04688	1,2-Dichlorobenzene	95-50-1	1,600	J	430	4,300		5
04688	1,3-Dichlorobenzene	541-73-1	1,600	J	430	4,300		5
04688	1,4-Dichlorobenzene	106-46-7	1,600	J	430	4,300		5
04688	3,3'-Dichlorobenzidine	91-94-1	2,600	U	2,600	8,500		5
04688	2,4-Dichlorophenol	120-83-2	1,600	J	430	4,300		5
04688	Diethylphthalate	84-66-2	1,700	J	430	4,300		5
04688	2,4-Dimethylphenol	105-67-9	1,700	J	850	4,300		5
04688	3,5-Dimethylphenol	108-68-9	1,700	J	850	4,300		5
04688	Dimethylphthalate	131-11-3	1,700	J	430	4,300		5
04688	4,6-Dinitro-2-methylphenol	534-52-1	4,900	J	4,300	13,000		5
04688	2,4-Dinitrophenol	51-28-5	9,400	J	8,500	26,000		5
04688	2,4-Dinitrotoluene	121-14-2	1,400	J	850	4,300		5
04688	2,6-Dinitrotoluene	606-20-2	1,500	J	430	4,300		5
04688	1,2-Diphenylhydrazine	122-66-7	1,600	J	430	4,300		5
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,000	J	430	8,500		5
04688	Fluoranthene	206-44-0	1,800	J	430	4,300		5
04688	Fluorene	86-73-7	1,800	J	430	4,300		5
04688	Hexachlorobenzene	118-74-1	1,700	J	430	4,300		5
04688	Hexachlorobutadiene	87-68-3	1,700	U	1,700	4,300		5
04688	Hexachlorocyclopentadiene	77-47-4	4,300	U	4,300	13,000		5
04688	Hexachloroethane	67-72-1	1,600	J	430	4,300		5
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900	J	430	4,300		5
04688	Isophorone	78-59-1	1,600	J	430	4,300		5

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-120-SA7-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415781
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5004 SDG#: DE250-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,600	J	430	4,300		5
04688	2-Methylnaphthalene	91-57-6	1,600	J	430	4,300		5
04688	2-Methylphenol	95-48-7	1,800	J	850	4,300		5
04688	4-Methylphenol	106-44-5	1,800	J	850	4,300		5
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,700	J	430	4,300		5
04688	2-Nitroaniline	88-74-4	1,700	J	430	4,300		5
04688	3-Nitroaniline	99-09-2	1,300	J	850	4,300		5
04688	4-Nitroaniline	100-01-6	1,700	U	1,700	4,300		5
04688	Nitrobenzene	98-95-3	1,600	J	430	4,300		5
04688	2-Nitrophenol	88-75-5	1,600	J	430	4,300		5
04688	4-Nitrophenol	100-02-7	4,300	U	4,300	13,000		5
04688	N-Nitrosodimethylamine	62-75-9	1,700	J	850	4,300		5
04688	N-Nitroso-di-n-propylamine	621-64-7	1,800	J	430	4,300		5
04688	N-Nitrosodiphenylamine	86-30-6	1,700	J	430	4,300		5
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	1,900	J	430	4,300		5
04688	Pentachlorophenol	87-86-5	4,300	U	4,300	13,000		5
04688	Phenanthrene	85-01-8	1,800	J	430	4,300		5
04688	Phenol	108-95-2	1,700	J	430	4,300		5
04688	Pyrene	129-00-0	1,800	J	430	4,300		5
04688	Tetralin	119-64-2	4,300	U	4,300	4,300		5
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	1,600	J	430	4,300		5
04688	2,4,5-Trichlorophenol	95-95-4	1,600	J	850	4,300		5
04688	2,4,6-Trichlorophenol	88-06-2	1,700	J	850	4,300		5
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	35		14	34		20
10138	Acenaphthylene	208-96-8	31	J	6.8	34		20
10138	Anthracene	120-12-7	42		6.8	34		20
10138	Benzo(a)anthracene	56-55-3	61		14	34		20
10138	Benzo(a)pyrene	50-32-8	83		14	34		20
10138	Benzo(b)fluoranthene	205-99-2	190		14	34		20
10138	Benzo(g,h,i)perylene	191-24-2	27	J	14	34		20
10138	Benzo(k)fluoranthene	207-08-9	92		14	34		20
10138	Butylbenzylphthalate	85-68-7	300	J	120	370		20
10138	Di-n-butylphthalate	84-74-2	120	U	120	370		20
10138	Chrysene	218-01-9	150		6.8	34		20
10138	Dibenz(a,h)anthracene	53-70-3	25	J	14	34		20
10138	Diethylphthalate	84-66-2	120	U	120	370		20
10138	Dimethylphthalate	131-11-3	120	U	120	370		20
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	200	J	120	370		20

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Sample Description: **SL-120-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415781
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5004 SDG#: DE250-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	140		14	34		20
10138	Fluorene	86-73-7	38		14	34		20
10138	Indeno(1,2,3-cd)pyrene	193-39-5	27	J	14	34		20
10138	1-Methylnaphthalene	90-12-0	32	J	14	34		20
10138	2-Methylnaphthalene	91-57-6	34	J	14	34		20
10138	Naphthalene	91-20-3	34	J	14	34		20
10138	N-Nitrosodimethylamine	62-75-9	29	J	14	34		20
10138	Di-n-octylphthalate	117-84-0	140	J	120	370		20
10138	Phenanthrene	85-01-8	100		14	34		20
10138	Pyrene	129-00-0	130		14	34		20

Reporting limits were raised due to interference from the sample matrix.

The GC/MS semivolatile internal standard peak areas were outside of QC limits. The background and matrix spike samples were analyzed and internal standard peak areas were again outside of QC limits, indicating a matrix effect.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	3.7		0.64	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	2.6		0.82	1.7		1
10401	MCPA	94-74-6	78	U	78	260		1
10401	MCPP (Mecoprop)	93-65-2	290		77	260		1
10401	2,4,5-T	93-76-5	0.37		0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.38		0.077	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	110		2.2	5.1		1

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.19		0.068	0.17		1
01363	Alpha BHC	319-84-6	0.10	J	0.035	0.17		1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.17		0.035	0.17		1
01363	Chlordane	57-74-9	8.9		0.82	3.5		1
01363	p,p-DDD	72-54-8	1.5		0.068	0.35		1
01363	p,p-DDE	72-55-9	2.1		0.068	0.35		1
01363	p,p-DDT	50-29-3	7.4		0.068	0.35		1
01363	Delta BHC	319-86-8	0.34		0.037	0.17		1
01363	Dieldrin	60-57-1	0.92		0.068	0.35		1
01363	Endosulfan I	959-98-8	0.092	J	0.045	0.17		1
01363	Endosulfan II	33213-65-9	1.0		0.068	0.35		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-120-SA7-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415781
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5004 SDG#: DE250-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35		1
01363	Endrin	72-20-8	0.068	U	0.068	0.35		1
01363	Endrin Aldehyde	7421-93-4	1.3		0.068	0.35		1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35		1
01363	Heptachlor	76-44-8	0.27		0.062	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.34		0.035	0.17		1
01363	Methoxychlor	72-43-5	2.1		0.35	1.7		1
01363	Mirex	2385-85-5	0.068	U	0.068	0.35		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.8		1

The sample was injected following maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	2.1	J	1.0	3.4		1
10225	PCB-1016	12674-11-2	13		0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	7.2		0.34	1.7		1
10225	PCB-1260	11096-82-5	13		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	1,400		100	510		1
10501	Isopropanol	67-63-0	1,300		100	510		1
10501	Methanol	67-56-1	1,600		100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	13		5.1	10		1
08283	Ethylene glycol	107-21-1	61		5.1	10		1
08283	Propylene glycol	57-55-6	82		5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	7.9		1.5	3.6		1
10318	o-Terphenyl	84-15-1	7.9		1.5	3.6		1
10318	p-Terphenyl	92-94-4	8.1		1.5	3.6		1

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-120-SA7-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415781
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5004 SDG#: DE250-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	100	U	100	310		50
10199	EFH (C15-C20)	n.a.	100	U	100	310		50
10199	EFH (C21-C30)	n.a.	960		100	310		50
10199	EFH (C30 - C40)	n.a.	3,700		100	310		50
10199	EFH (C8-C11)	n.a.	100	U	100	310		50
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	18,700		6.14	20.3		1
07914	Boron	7440-42-8	209		0.366	5.08		1
01650	Calcium	7440-70-2	5,040		2.54	20.3		1
01654	Iron	7439-89-6	19,700		2.65	20.3		1
01656	Lithium	7439-93-2	123		0.63	2.0		1
01657	Magnesium	7439-95-4	4,450		0.447	10.2		1
06958	Manganese	7439-96-5	337		0.0366	0.508		1
10145	Phosphorus	7723-14-0	536		0.355	10.2		1
01662	Potassium	7440-09-7	5,320		11.5	50.8		1
01667	Sodium	7440-23-5	1,120		6.04	102		1
07968	Strontium	7440-24-6	125		0.0254	0.508		1
06969	Tin	7440-31-5	380		0.325	10.2		1
06970	Titanium	7440-32-6	1,340		0.0721	1.02		1
10146	Zirconium	7440-67-7	95.4		0.467	5.08		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.916		0.0751	0.203		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.11		0.0812	0.406		2
06126	Barium	7440-39-3	133		0.108	0.406		2
06127	Beryllium	7440-41-7	1.68		0.0162	0.102		2
06128	Cadmium	7440-43-9	1.94		0.0447	0.102		2
06131	Chromium	7440-47-3	39.2		0.122	0.406		2
06132	Cobalt	7440-48-4	77.5		0.0203	0.102		2
06133	Copper	7440-50-8	29.7		0.0812	0.406		2
06135	Lead	7439-92-1	34.9		0.0104	0.203		2
06138	Molybdenum	7439-98-7	15.2		0.0508	0.102		2
06139	Nickel	7440-02-0	34.9		0.102	0.406		2
06141	Selenium	7782-49-2	2.92		0.0589	0.406		2
06142	Silver	7440-22-4	14.2		0.0144	0.102		2
06145	Thallium	7440-28-0	0.876		0.0305	0.102		2
06148	Vanadium	7440-62-2	55.0		0.0223	0.102		2
06149	Zinc	7440-66-6	178		1.42	7.62		5
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.205		0.0072	0.102		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.5		0.50	0.50		1

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Sample Description: **SL-120-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415781
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5004 SDG#: DE250-04MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11277SLD026	10/06/2011 10:11	Brian K Graham	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11270SLA026	10/08/2011 03:24	Gregory J Drahovsky	20
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11270SLA026	09/28/2011 09:40	Roza S Goslawska	1
00381	BNA Soil Sonication	SW-846 3550B	2	11277SLD026	10/05/2011 08:20	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112690021A	09/30/2011 22:27	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112690003A	09/27/2011 16:55	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112690019A	10/03/2011 05:08	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112770010A	10/05/2011 12:41	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112690019A	09/29/2011 12:15	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	112770010A	10/04/2011 19:00	Sally L Appleyard	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112690021A	09/29/2011 02:00	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112690003A	09/27/2011 07:00	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112670066A	09/27/2011 00:04	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112730030A	09/30/2011 21:44	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112720009A	10/01/2011 05:56	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112720035A	10/04/2011 09:01	Heather E Williams	50
11238	EFH Extraction - Soils	SW-846 3550B	1	112720035A	09/30/2011 08:10	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112720009A	09/29/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112670066A	09/26/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112730030A	09/30/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112665708002	09/30/2011 21:29	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112665708002	09/30/2011 21:29	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112665708002	09/30/2011 21:29	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-120-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415781
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5004 SDG#: DE250-04MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	112785708001	10/06/2011 13:05	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112665708002	09/30/2011 21:29	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112665708002	09/30/2011 21:29	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112665708002	09/30/2011 21:29	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112665708002	09/30/2011 21:29	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112665708002	09/30/2011 21:29	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112665708002	09/30/2011 21:29	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112665708002	09/30/2011 21:29	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112665708002	09/30/2011 21:29	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112665708002	09/30/2011 21:29	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112665708002	09/30/2011 21:29	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112661026001A	09/26/2011 11:50	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112661026001A	09/26/2011 11:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112661026001D	09/26/2011 11:50	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112661026001A	09/26/2011 11:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112661026001A	09/26/2011 11:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112661026001A	09/26/2011 11:50	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112661026001A	09/26/2011 11:50	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112661026001A	09/26/2011 11:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112661026001A	09/26/2011 11:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112661026001C	09/26/2011 11:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112661026001A	09/26/2011 11:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112661026001B	09/26/2011 11:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112661026001A	09/26/2011 11:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112661026001A	09/26/2011 11:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112661026001A	09/26/2011 11:50	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112661026001A	09/27/2011 18:07	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	112665711005	09/26/2011 10:21	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112665708002	09/25/2011 19:59	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708001	10/04/2011 22:20	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708001	10/05/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112661026001	09/25/2011 20:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112665711005	09/26/2011 00:35	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162401B	09/28/2011 22:01	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-120-SA7-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415782
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5004 SDG#: DE250-04DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,600		6.08	20.1		1
07914	Boron	7440-42-8	4.34	J	0.362	5.03		1
01650	Calcium	7440-70-2	4,250		2.51	20.1		1
01654	Iron	7439-89-6	19,900		2.57	19.7		1
01656	Lithium	7439-93-2	18.2		0.62	2.0		1
01657	Magnesium	7439-95-4	3,810		0.442	10.1		1
06958	Manganese	7439-96-5	262		0.0362	0.503		1
10145	Phosphorus	7723-14-0	430		0.352	10.1		1
01662	Potassium	7440-09-7	3,720		11.4	50.3		1
01667	Sodium	7440-23-5	81.2	J	5.98	101		1
07968	Strontium	7440-24-6	22.1		0.0251	0.503		1
06969	Tin	7440-31-5	3.14	J	0.322	10.1		1
06970	Titanium	7440-32-6	1,020		0.0714	1.01		1
10146	Zirconium	7440-67-7	2.71	J	0.463	5.03		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.223		0.0744	0.201		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.38		0.0804	0.402		2
06126	Barium	7440-39-3	102		0.107	0.402		2
06127	Beryllium	7440-41-7	0.565		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.482		0.0442	0.101		2
06131	Chromium	7440-47-3	20.8		0.121	0.402		2
06132	Cobalt	7440-48-4	6.46		0.0201	0.101		2
06133	Copper	7440-50-8	13.9		0.0804	0.402		2
06135	Lead	7439-92-1	52.6		0.0103	0.201		2
06138	Molybdenum	7439-98-7	0.948		0.0503	0.101		2
06139	Nickel	7440-02-0	17.6		0.101	0.402		2
06141	Selenium	7782-49-2	0.181	J	0.0583	0.402		2
06142	Silver	7440-22-4	0.0558	J	0.0143	0.101		2
06145	Thallium	7440-28-0	0.271		0.0302	0.101		2
06148	Vanadium	7440-62-2	36.9		0.0221	0.101		2
06149	Zinc	7440-66-6	170		1.41	7.54		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0271	J	0.0069	0.0987		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.9		0.83	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-120-SA7-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415782
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5004 SDG#: DE250-04DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		mg/kg		mg/kg	mg/kg	mg/kg	
05895	16a Cyanide by 9012B	57-12-5	0.25	J	0.18	0.51		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.52		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11626	28a Moisture Content by 160.3	n.a.	2.6		0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.							
11625	Moisture Content by 160.3	n.a.	2.5		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	112665708002	09/30/2011 21:22	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112665708002	09/30/2011 21:22	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112665708002	09/30/2011 21:22	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708001	10/06/2011 12:57	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112665708002	09/30/2011 21:22	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112665708002	09/30/2011 21:22	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112665708002	09/30/2011 21:22	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112665708002	09/30/2011 21:22	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112665708002	09/30/2011 21:22	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112665708002	09/30/2011 21:22	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112665708002	09/30/2011 21:22	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112665708002	09/30/2011 21:22	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112665708002	09/30/2011 21:22	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112665708002	09/30/2011 21:22	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112661026001A	09/26/2011 11:44	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112661026001A	09/26/2011 11:44	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112661026001D	09/26/2011 11:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112661026001A	09/26/2011 11:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112661026001A	09/26/2011 11:44	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112661026001A	09/26/2011 11:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112661026001A	09/26/2011 11:44	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112661026001A	09/26/2011 11:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112661026001A	09/26/2011 11:44	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-120-SA7-SS-0.0-0.5DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415782
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5004 SDG#: DE250-04DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	112661026001C	09/26/2011 11:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112661026001A	09/26/2011 11:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112661026001B	09/26/2011 11:44	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112661026001A	09/26/2011 11:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112661026001A	09/26/2011 11:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112661026001A	09/26/2011 11:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112661026001A	09/27/2011 18:04	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	112665711005	09/26/2011 10:16	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112665708002	09/25/2011 19:59	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708001	10/04/2011 22:20	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708001	10/05/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112661026001	09/25/2011 20:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112665711005	09/26/2011 00:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621201A	09/30/2011 23:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11266373204A	10/05/2011 02:51	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243203A	10/04/2011 19:46	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11277102201A	10/04/2011 19:35	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621201A	09/30/2011 05:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266373204A	09/23/2011 18:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11277102201A	10/04/2011 10:00	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11277039402A	10/04/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243203A	10/03/2011 12:00	Yolunder Y Bunch	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11271162401B	09/28/2011 22:01	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162401B	09/28/2011 22:01	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-120-SA7-SS-0.0-0.5RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415783
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5004 SDG#: DE250-04RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	78	U	78	260		1
10401	MCPP (Mecoprop)	93-65-2	91	U	91	260		1
10401	2,4,5-T	93-76-5	0.11	J	0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.13	J	0.068	0.17		1
01363	Alpha BHC	319-84-6	0.12	J	0.035	0.17		1
01363	Beta BHC	319-85-7	0.078	J	0.062	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.090	J	0.035	0.17		1
01363	Chlordane	57-74-9	0.82	U	0.82	3.5		1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35		1
01363	p,p-DDE	72-55-9	1.7		0.068	0.35		1
01363	p,p-DDT	50-29-3	23		0.68	3.5		10
01363	Delta BHC	319-86-8	0.13	J	0.037	0.17		1
01363	Dieldrin	60-57-1	1.6	U	1.6	1.6		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	4.2	U	4.2	4.2		10
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35		1
01363	Endrin	72-20-8	1.6	U	1.6	1.6		1
01363	Endrin Aldehyde	7421-93-4	2.5		0.068	0.35		1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35		1
01363	Heptachlor	76-44-8	0.24		0.062	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.87	U	0.87	0.87		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.58	U	0.58	0.58		1
01363	Toxaphene	8001-35-2	360	U	360	360		10

The sample was injected following maintenance and a new calibration.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	1.5	J	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-120-SA7-SS-0.0-0.5RL MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415783
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5004 SDG#: DE250-04RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	23		0.34	1.7		1
10225	PCB-1260	11096-82-5	11		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	1,100		100	510		1
10501	Isopropanol	67-63-0	1,300		100	510		1
10501	Methanol	67-56-1	1,400		100	510		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	J	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.7	J	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	100	U	100	310		50
10199	EFH (C15-C20)	n.a.	100	U	100	310		50
10199	EFH (C21-C30)	n.a.	1,000		100	310		50
10199	EFH (C30 - C40)	n.a.	3,000		100	310		50
10199	EFH (C8-C11)	n.a.	100	U	100	310		50
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	2.5		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112690021A	10/01/2011 00:17	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112690019A	10/02/2011 22:12	Jamie L Brillhart	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-120-SA7-SS-0.0-0.5RL MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415783
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5004 SDG#: DE250-04RLR

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01363	12a Pesticides by 8081A	SW-846 8081A	1	112690019A	10/05/2011 04:12	Jamie L Brillhart	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670056A	10/01/2011 00:53	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112690019A	09/29/2011 12:15	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670056A	09/28/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112690021A	09/29/2011 02:00	David V Hershey Jr	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112670066A	09/27/2011 00:19	Elizabeth J Marin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112720009A	10/01/2011 06:23	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112720035A	10/04/2011 09:24	Heather E Williams	50
11238	EFH Extraction - Soils	SW-846 3550B	1	112720035A	09/30/2011 08:10	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112720009A	09/29/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112670066A	09/26/2011 18:00	Elizabeth J Marin	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162401B	09/28/2011 22:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-120-SA7-SS-0.0-0.5RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415784
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5004 SDG#: DE250-04RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	4.6		1.2	3.6		1
10401	Dalapon	75-99-0	5.0	J	4.4	9.0		1
10401	2,4-DB	94-82-6	0.67	J	0.62	1.7		1
10401	Dicamba	1918-00-9	0.42	J	0.40	1.2		1
10401	Dinoseb	88-85-7	0.35	J	0.20	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	2.5		0.80	1.7		1
10401	MCPA	94-74-6	73	J	70	250		1
10401	MCPP (Mecoprop)	93-65-2	540		75	250		1
10401	2,4,5-T	93-76-5	0.21		0.082	0.17		1
10401	2,4,5-TP	93-72-1	0.16	J	0.075	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.071	J	0.066	0.17		1
01363	Alpha BHC	319-84-6	0.086	J	0.034	0.17		1
01363	Beta BHC	319-85-7	0.11	J	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.095	J	0.034	0.17		1
01363	Chlordane	57-74-9	0.80	U	0.80	3.4		1
01363	p,p-DDD	72-54-8	0.16	J	0.066	0.34		1
01363	p,p-DDE	72-55-9	0.13	J	0.066	0.34		1
01363	p,p-DDT	50-29-3	0.21	J	0.066	0.34		1
01363	Delta BHC	319-86-8	0.092	J	0.036	0.17		1
01363	Dieldrin	60-57-1	0.19	J	0.066	0.34		1
01363	Endosulfan I	959-98-8	0.052	J	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.15	J	0.066	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.21	J	0.066	0.34		1
01363	Endrin	72-20-8	0.16	J	0.066	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.18	J	0.066	0.34		1
01363	Endrin Ketone	53494-70-5	0.28	J	0.066	0.34		1
01363	Heptachlor	76-44-8	0.073	J	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.090	J	0.034	0.17		1
01363	Methoxychlor	72-43-5	1.1	J	0.34	1.7		1
01363	Mirex	2385-85-5	0.066	U	0.066	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.6		1

The sample was injected following maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	1.7		0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-120-SA7-SS-0.0-0.5RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415784
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5004 SDG#: DE250-04RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1
10225	PCB-1260	11096-82-5	1.6	J	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	910		100	500		1
10501	Isopropanol	67-63-0	950		100	500		1
10501	Methanol	67-56-1	1,200		100	500		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	J	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	J	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	0.72	J	0.40	1.2		1
10199	EFH (C21-C30)	n.a.	1.2	J	0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	1.6		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.40	U	0.40	1.2		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112690021A	10/01/2011 01:39	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112690019A	10/02/2011 22:26	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670056A	10/01/2011 01:11	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112690019A	09/29/2011 12:15	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670056A	09/28/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112690021A	09/29/2011 02:00	David V Hershey Jr	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112670066A	09/27/2011 00:34	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-120-SA7-SS-0.0-0.5RL LCS Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415784
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5004 SDG#: DE250-04RLQ

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112720009A	10/01/2011 03:38	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112720035A	10/04/2011 02:39	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112720035A	09/30/2011 08:10	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112720009A	09/29/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112670066A	09/26/2011 18:00	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-121-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA7-SS-0.0-0.5

LLI Sample # SW 6415785
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 09:35

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5005 SDG#: DE250-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	4,200	U	4,200	12,000		5
04688	Benzidine	92-87-5	29,000	U	29,000	83,000		5
04688	Benzoic acid	65-85-0	4,200	U	4,200	12,000		5
04688	Benzyl alcohol	100-51-6	4,200	U	4,200	12,000		5
04688	4-Bromophenyl-phenylether	101-55-3	420	U	420	4,200		5
04688	Carbazole	86-74-8	420	U	420	4,200		5
04688	4-Chloro-3-methylphenol	59-50-7	830	U	830	4,200		5
04688	4-Chloroaniline	106-47-8	1,700	U	1,700	4,200		5
04688	bis(2-Chloroethoxy)methane	111-91-1	420	U	420	4,200		5
04688	bis(2-Chloroethyl)ether	111-44-4	420	U	420	4,200		5
04688	bis(2-Chloroisopropyl)ether	39638-32-9	420	U	420	4,200		5
04688	2-Chloronaphthalene	91-58-7	420	U	420	4,200		5
04688	2-Chlorophenol	95-57-8	420	U	420	4,200		5
04688	4-Chlorophenyl-phenylether	7005-72-3	830	U	830	4,200		5
04688	Dibenzofuran	132-64-9	420	U	420	4,200		5
04688	1,2-Dichlorobenzene	95-50-1	420	U	420	4,200		5
04688	1,3-Dichlorobenzene	541-73-1	420	U	420	4,200		5
04688	1,4-Dichlorobenzene	106-46-7	420	U	420	4,200		5
04688	3,3'-Dichlorobenzidine	91-94-1	2,500	U	2,500	8,300		5
04688	2,4-Dichlorophenol	120-83-2	420	U	420	4,200		5
04688	2,4-Dimethylphenol	105-67-9	830	U	830	4,200		5
04688	3,5-Dimethylphenol	108-68-9	830	U	830	4,200		5
04688	4,6-Dinitro-2-methylphenol	534-52-1	4,200	U	4,200	12,000		5
04688	2,4-Dinitrophenol	51-28-5	8,300	U	8,300	25,000		5
04688	2,4-Dinitrotoluene	121-14-2	830	U	830	4,200		5
04688	2,6-Dinitrotoluene	606-20-2	420	U	420	4,200		5
04688	1,2-Diphenylhydrazine	122-66-7	420	U	420	4,200		5
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,400	J	420	8,300		5
04688	Hexachlorobenzene	118-74-1	420	U	420	4,200		5
04688	Hexachlorobutadiene	87-68-3	1,700	U	1,700	4,200		5
04688	Hexachlorocyclopentadiene	77-47-4	4,200	U	4,200	12,000		5
04688	Hexachloroethane	67-72-1	420	U	420	4,200		5
04688	Isophorone	78-59-1	420	U	420	4,200		5
04688	2-Methylphenol	95-48-7	830	U	830	4,200		5
04688	4-Methylphenol	106-44-5	830	U	830	4,200		5
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	420	U	420	4,200		5
04688	3-Nitroaniline	99-09-2	830	U	830	4,200		5
04688	4-Nitroaniline	100-01-6	1,700	U	1,700	4,200		5
04688	Nitrobenzene	98-95-3	420	U	420	4,200		5
04688	2-Nitrophenol	88-75-5	420	U	420	4,200		5
04688	4-Nitrophenol	100-02-7	4,200	U	4,200	12,000		5
04688	N-Nitroso-di-n-propylamine	621-64-7	420	U	420	4,200		5
04688	N-Nitrosodiphenylamine	86-30-6	420	U	420	4,200		5
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	4,200	U	4,200	12,000		5

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-121-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA7-SS-0.0-0.5

LLI Sample # SW 6415785
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 09:35

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5005 SDG#: DE250-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	420	U	420	4,200		5
04688	Tetralin	119-64-2	4,200	U	4,200	4,200		5
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	420	U	420	4,200		5
04688	2,4,5-Trichlorophenol	95-95-4	830	U	830	4,200		5
04688	2,4,6-Trichlorophenol	88-06-2	830	U	830	4,200		5
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	13	U	13	33		20
10138	Acenaphthylene	208-96-8	6.7	U	6.7	33		20
10138	Anthracene	120-12-7	6.7	U	6.7	33		20
10138	Benzo(a)anthracene	56-55-3	13	U	13	33		20
10138	Benzo(a)pyrene	50-32-8	20	J	13	33		20
10138	Benzo(b)fluoranthene	205-99-2	70		13	33		20
10138	Benzo(g,h,i)perylene	191-24-2	26	J	13	33		20
10138	Benzo(k)fluoranthene	207-08-9	13	U	13	33		20
10138	Butylbenzylphthalate	85-68-7	120	U	120	360		20
10138	Di-n-butylphthalate	84-74-2	120	U	120	360		20
10138	Chrysene	218-01-9	53		6.7	33		20
10138	Dibenz(a,h)anthracene	53-70-3	17	J	13	33		20
10138	Diethylphthalate	84-66-2	120	U	120	360		20
10138	Dimethylphthalate	131-11-3	120	U	120	360		20
10138	Fluoranthene	206-44-0	20	J	13	33		20
10138	Fluorene	86-73-7	13	U	13	33		20
10138	Indeno(1,2,3-cd)pyrene	193-39-5	13	U	13	33		20
10138	1-Methylnaphthalene	90-12-0	13	U	13	33		20
10138	2-Methylnaphthalene	91-57-6	13	U	13	33		20
10138	Naphthalene	91-20-3	13	U	13	33		20
10138	N-Nitrosodimethylamine	62-75-9	13	U	13	33		20
10138	Di-n-octylphthalate	117-84-0	120	U	120	360		20
10138	Phenanthrene	85-01-8	13	U	13	33		20
10138	Pyrene	129-00-0	14	J	13	33		20
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	2.6		0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.13	J	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-121-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA7-SS-0.0-0.5

LLI Sample # SW 6415785
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 09:35

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5005 SDG#: DE250-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.1	U	2.1	5.1		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.33	U	0.33	0.84		5
01363	Alpha BHC	319-84-6	0.17	U	0.17	0.84		5
01363	Beta BHC	319-85-7	0.30	U	0.30	0.84		5
01363	Gamma BHC - Lindane	58-89-9	0.17	U	0.17	0.84		5
01363	Chlordane	57-74-9	6.7	J	4.0	17		5
01363	p,p-DDD	72-54-8	0.33	U	0.33	1.7		5
01363	p,p-DDE	72-55-9	1.8		0.33	1.7		5
01363	p,p-DDT	50-29-3	11	U	11	11		5
01363	Delta BHC	319-86-8	0.18	U	0.18	0.84		5
01363	Dieldrin	60-57-1	3.7	U	3.7	3.7		5
01363	Endosulfan I	959-98-8	0.22	U	0.22	0.84		5
01363	Endosulfan II	33213-65-9	3.3	U	3.3	3.3		5
01363	Endosulfan Sulfate	1031-07-8	0.33	U	0.33	1.7		5
01363	Endrin	72-20-8	0.80	U	0.80	1.7		5
01363	Endrin Aldehyde	7421-93-4	1.6	U	1.6	1.7		5
01363	Endrin Ketone	53494-70-5	0.33	U	0.33	1.7		5
01363	Heptachlor	76-44-8	0.30	U	0.30	0.84		5
01363	Heptachlor Epoxide	1024-57-3	0.77	U	0.77	0.84		5
01363	Methoxychlor	72-43-5	1.7	U	1.7	8.4		5
01363	Mirex	2385-85-5	1.3	U	1.3	1.7		5
01363	Toxaphene	8001-35-2	87	U	87	87		5
	The sample was injected following maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	5.1	U	5.1	17		5
10225	Aroclor 5442	12642-23-8	5.1	U	5.1	17		5
10225	Aroclor 5460	11126-42-4	64		5.1	17		5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.6		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.6		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.6		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.6		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.6		5
10225	PCB-1254	11097-69-1	66		1.7	8.6		5
10225	PCB-1260	11096-82-5	37		2.0	8.6		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.6		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.6		5
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-121-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA7-SS-0.0-0.5

LLI Sample # SW 6415785
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 09:35

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5005 SDG#: DE250-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	100	U	100	300		50
10199	EFH (C15-C20)	n.a.	100	U	100	300		50
10199	EFH (C21-C30)	n.a.	990		100	300		50
10199	EFH (C30 - C40)	n.a.	3,400		100	300		50
10199	EFH (C8-C11)	n.a.	100	U	100	300		50
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,200		6.07	20.1		1
07914	Boron	7440-42-8	0.361	U	0.361	5.02		1
01650	Calcium	7440-70-2	2,840		2.51	20.1		1
01654	Iron	7439-89-6	19,800		2.59	19.9		1
01656	Lithium	7439-93-2	18.3		0.62	2.0		1
01657	Magnesium	7439-95-4	3,620		0.441	10.0		1
06958	Manganese	7439-96-5	258		0.0361	0.502		1
10145	Phosphorus	7723-14-0	348		0.351	10.0		1
01662	Potassium	7440-09-7	3,250		11.3	50.2		1
01667	Sodium	7440-23-5	76.0	J	5.97	100		1
07968	Strontium	7440-24-6	18.3		0.0251	0.502		1
06969	Tin	7440-31-5	2.94	J	0.321	10.0		1
06970	Titanium	7440-32-6	1,140		0.0712	1.00		1
10146	Zirconium	7440-67-7	2.97	J	0.461	5.02		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.227		0.0750	0.203		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.93		0.0811	0.405		2
06126	Barium	7440-39-3	118		0.107	0.405		2
06127	Beryllium	7440-41-7	0.634		0.0162	0.101		2
06128	Cadmium	7440-43-9	0.372		0.0446	0.101		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-121-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA7-SS-0.0-0.5

LLI Sample # SW 6415785
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 09:35

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5005 SDG#: DE250-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	27.4		0.122	0.405		2
06132	Cobalt	7440-48-4	7.10		0.0203	0.101		2
06133	Copper	7440-50-8	14.0		0.0811	0.405		2
06135	Lead	7439-92-1	27.4		0.0103	0.203		2
06138	Molybdenum	7439-98-7	0.815		0.0507	0.101		2
06139	Nickel	7440-02-0	18.7		0.101	0.405		2
06141	Selenium	7782-49-2	0.125	J	0.0588	0.405		2
06142	Silver	7440-22-4	0.0571	J	0.0144	0.101		2
06145	Thallium	7440-28-0	0.288		0.0304	0.101		2
06148	Vanadium	7440-62-2	40.9		0.0223	0.101		2
06149	Zinc	7440-66-6	149		1.42	7.60		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0193	J	0.0069	0.0976		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	3.7		0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.49		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.71		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-121-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA7-SS-0.0-0.5

LLI Sample # SW 6415785
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 09:35

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5005 SDG#: DE250-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11277SLD026	10/06/2011 11:52	Brian K Graham	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11270SLA026	10/08/2011 01:15	Gregory J Drahovsky	20
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11270SLA026	09/28/2011 09:40	Roza S Goslawska	1
00381	BNA Soil Sonication	SW-846 3550B	2	11277SLD026	10/05/2011 08:20	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112690021A	10/01/2011 02:07	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112690003A	09/27/2011 17:08	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112690019A	10/03/2011 00:55	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670056A	10/01/2011 01:30	Jamie L Brillhart	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112690019A	09/29/2011 12:15	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670056A	09/28/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112690021A	09/29/2011 02:00	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112690003A	09/27/2011 07:00	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112670066A	09/26/2011 20:37	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112730030A	09/30/2011 21:57	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112720009A	10/01/2011 06:51	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112720035A	10/04/2011 09:48	Heather E Williams	50
11238	EFH Extraction - Soils	SW-846 3550B	1	112720035A	09/30/2011 08:10	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112720009A	09/29/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112670066A	09/26/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112730030A	09/30/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112665708002	09/30/2011 21:57	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112665708002	09/30/2011 21:57	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112665708002	09/30/2011 21:57	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708001	10/06/2011 13:32	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112665708002	09/30/2011 21:57	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112665708002	09/30/2011 21:57	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112665708002	09/30/2011 21:57	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112665708002	09/30/2011 21:57	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112665708002	09/30/2011 21:57	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112665708002	09/30/2011 21:57	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112665708002	09/30/2011 21:57	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112665708002	09/30/2011 21:57	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112665708002	09/30/2011 21:57	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112665708002	09/30/2011 21:57	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112661026001A	09/26/2011 12:13	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-121-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA7-SS-0.0-0.5

LLI Sample # SW 6415785
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 09:35

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5005 SDG#: DE250-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	112661026001A	09/26/2011 12:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112661026001D	09/26/2011 12:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112661026001A	09/26/2011 12:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112661026001A	09/26/2011 12:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112661026001A	09/26/2011 12:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112661026001A	09/26/2011 12:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112661026001A	09/26/2011 12:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112661026001A	09/26/2011 12:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112661026001C	09/26/2011 12:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112661026001A	09/26/2011 12:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112661026001B	09/26/2011 12:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112661026001A	09/26/2011 12:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112661026001A	09/26/2011 12:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112661026001A	09/26/2011 12:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112661026001A	09/26/2011 13:00	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	112665711005	09/26/2011 10:23	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112665708002	09/25/2011 19:59	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708001	10/04/2011 22:20	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708001	10/05/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112661026001	09/25/2011 20:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112665711005	09/26/2011 00:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621201A	10/01/2011 01:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11266373204A	10/05/2011 05:09	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243203A	10/04/2011 20:01	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11277102201A	10/04/2011 19:37	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621201A	09/30/2011 05:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266373204A	09/23/2011 18:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11277102201A	10/04/2011 10:00	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11277039402A	10/04/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243203A	10/03/2011 12:00	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162401B	09/28/2011 22:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-123-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-123-SA7-SS-0.0-0.5

LLI Sample # SW 6415786
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:40

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5006 SDG#: DE250-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	U	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-123-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-123-SA7-SS-0.0-0.5

LLI Sample # SW 6415786
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:40

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5006 SDG#: DE250-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	6.7	U	6.7	17		10
10138	Acenaphthylene	208-96-8	3.4	U	3.4	17		10
10138	Anthracene	120-12-7	3.4	U	3.4	17		10
10138	Benzo(a)anthracene	56-55-3	6.7	U	6.7	17		10
10138	Benzo(a)pyrene	50-32-8	6.7	U	6.7	17		10
10138	Benzo(b)fluoranthene	205-99-2	11	J	6.7	17		10
10138	Benzo(g,h,i)perylene	191-24-2	6.7	U	6.7	17		10
10138	Benzo(k)fluoranthene	207-08-9	6.7	U	6.7	17		10
10138	Chrysene	218-01-9	9.6	J	3.4	17		10
10138	Dibenz(a,h)anthracene	53-70-3	6.7	U	6.7	17		10
10138	Fluoranthene	206-44-0	31		6.7	17		10
10138	Fluorene	86-73-7	6.7	U	6.7	17		10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	6.7	U	6.7	17		10
10138	1-Methylnaphthalene	90-12-0	6.7	U	6.7	17		10
10138	2-Methylnaphthalene	91-57-6	6.7	U	6.7	17		10
10138	Naphthalene	91-20-3	6.7	U	6.7	17		10
10138	N-Nitrosodimethylamine	62-75-9	6.7	U	6.7	17		10
10138	Phenanthrene	85-01-8	16	J	6.7	17		10
10138	Pyrene	129-00-0	23		6.7	17		10
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	11		0.63	1.7		1
10401	Dicamba	1918-00-9	0.50	U	0.50	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	170	U	170	260		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	0.084	U	0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-123-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-123-SA7-SS-0.0-0.5

LLI Sample # SW 6415786
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:40

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5006 SDG#: DE250-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported.							
	Reporting limits were raised due to interference from the sample matrix.							
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.1	U	2.1	5.1		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17		1
01363	Alpha BHC	319-84-6	0.047	J	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.088	J	0.035	0.17		1
01363	Chlordane	57-74-9	1.4	J	0.82	3.5		1
01363	p,p-DDD	72-54-8	0.28	U	0.28	0.35		1
01363	p,p-DDE	72-55-9	0.19	U	0.19	0.35		1
01363	p,p-DDT	50-29-3	0.98		0.068	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.068	U	0.068	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.068	U	0.068	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35		1
01363	Endrin	72-20-8	0.068	U	0.068	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.30	U	0.30	0.35		1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.068	U	0.068	0.35		1
01363	Toxaphene	8001-35-2	5.5	U	5.5	6.8		1
	The sample was injected following maintenance and a new calibration.							
	Various analytes in the calibration check standards bracketing the sample were							
	outside the acceptance criteria. This effect is attributed to the sample matrix							
	based on our experience with the site, and the data is reported.							
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	4.9		1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	4.8		0.34	1.7		1
10225	PCB-1260	11096-82-5	1.4	J	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1

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Sample Description: **SL-123-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-123-SA7-SS-0.0-0.5

LLI Sample # SW 6415786
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:40

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5006 SDG#: DE250-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.82	U	0.82	2.5		2
10199	EFH (C15-C20)	n.a.	2.1	J	0.82	2.5		2
10199	EFH (C21-C30)	n.a.	35		0.82	2.5		2
10199	EFH (C30 - C40)	n.a.	46		0.82	2.5		2
10199	EFH (C8-C11)	n.a.	0.82	U	0.82	2.5		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,700		6.01	19.9		1
07914	Boron	7440-42-8	0.695	J	0.358	4.97		1
01650	Calcium	7440-70-2	6,320		2.48	19.9		1
01654	Iron	7439-89-6	23,800		2.64	20.3		1
01656	Lithium	7439-93-2	20.1		0.62	2.0		1
01657	Magnesium	7439-95-4	4,770		0.437	9.94		1
06958	Manganese	7439-96-5	319		0.0358	0.497		1
10145	Phosphorus	7723-14-0	413		0.348	9.94		1
01662	Potassium	7440-09-7	3,830		11.2	49.7		1
01667	Sodium	7440-23-5	85.5	J	5.91	99.4		1
07968	Strontium	7440-24-6	23.0		0.0248	0.497		1
06969	Tin	7440-31-5	2.93	J	0.318	9.94		1
06970	Titanium	7440-32-6	1,200		0.0706	0.994		1
10146	Zirconium	7440-67-7	3.54	J	0.457	4.97		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.198	J	0.0743	0.201		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.67		0.0803	0.401		2
06126	Barium	7440-39-3	130		0.106	0.401		2
06127	Beryllium	7440-41-7	0.770		0.0161	0.100		2
06128	Cadmium	7440-43-9	0.413		0.0442	0.100		2

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Sample Description: SL-123-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-123-SA7-SS-0.0-0.5

LLI Sample # SW 6415786
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:40

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5006 SDG#: DE250-06

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium		7440-47-3	27.1		0.120	0.401		2
06132	Cobalt		7440-48-4	8.91		0.0201	0.100		2
06133	Copper		7440-50-8	17.2		0.0803	0.401		2
06135	Lead		7439-92-1	15.6		0.0102	0.201		2
06138	Molybdenum		7439-98-7	0.784		0.0502	0.100		2
06139	Nickel		7440-02-0	18.0		0.100	0.401		2
06141	Selenium		7782-49-2	0.140	J	0.0582	0.401		2
06142	Silver		7440-22-4	0.0489	J	0.0142	0.100		2
06145	Thallium		7440-28-0	0.343		0.0301	0.100		2
06148	Vanadium		7440-62-2	52.3		0.0221	0.100		2
06149	Zinc		7440-66-6	198		1.40	7.53		5
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0280	J	0.0067	0.0955		1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	0.82	U	0.82	1.0		1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	9.2	U	9.2	30.7		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.56	J	0.20	1.0		1
		SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B		57-12-5	0.18	U	0.18	0.50		1
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C		n.a.	7.42		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	2.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-123-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-123-SA7-SS-0.0-0.5

LLI Sample # SW 6415786
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:40

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5006 SDG#: DE250-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11277SLD026	10/06/2011 12:17	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11270SLA026	10/07/2011 23:39	Gregory J Drahovsky	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11270SLA026	09/28/2011 09:40	Roza S Goslawska	1
00381	BNA Soil Sonication	SW-846 3550B	2	11277SLD026	10/05/2011 08:20	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112690021A	10/01/2011 02:34	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112690003A	09/27/2011 17:21	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112690019A	10/05/2011 01:29	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670056A	10/01/2011 01:49	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112690019A	09/29/2011 12:15	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670056A	09/28/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112690021A	09/29/2011 02:00	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112690003A	09/27/2011 07:00	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112670066A	09/26/2011 20:52	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112730030A	09/30/2011 22:10	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112720009A	09/30/2011 23:03	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112720035A	10/04/2011 06:38	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	112720035A	09/30/2011 08:10	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112720009A	09/29/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112670066A	09/26/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112730030A	09/30/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112665708002	09/30/2011 22:01	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112665708002	09/30/2011 22:01	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112665708002	09/30/2011 22:01	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708001	10/06/2011 13:36	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112665708002	09/30/2011 22:01	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112665708002	09/30/2011 22:01	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112665708002	09/30/2011 22:01	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112665708002	09/30/2011 22:01	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112665708002	09/30/2011 22:01	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112665708002	09/30/2011 22:01	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112665708002	09/30/2011 22:01	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112665708002	09/30/2011 22:01	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112665708002	09/30/2011 22:01	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112665708002	09/30/2011 22:01	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112661026001A	09/26/2011 12:16	Choon Y Tian	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-123-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-123-SA7-SS-0.0-0.5

LLI Sample # SW 6415786
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:40

Submitted: 09/22/2011 08:50
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5006 SDG#: DE250-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	112661026001A	09/26/2011 12:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112661026001D	09/26/2011 12:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112661026001A	09/26/2011 12:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112661026001A	09/26/2011 12:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112661026001A	09/26/2011 12:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112661026001A	09/26/2011 12:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112661026001A	09/26/2011 12:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112661026001A	09/26/2011 12:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112661026001C	09/26/2011 12:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112661026001A	09/26/2011 12:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112661026001B	09/26/2011 12:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112661026001A	09/26/2011 12:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112661026001A	09/26/2011 12:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112661026001A	09/26/2011 12:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112661026001A	09/26/2011 13:03	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	112665711005	09/26/2011 10:24	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112665708002	09/25/2011 19:59	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708001	10/04/2011 22:20	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708001	10/05/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112661026001	09/25/2011 20:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112665711005	09/26/2011 00:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621201A	10/01/2011 01:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11266373204A	10/05/2011 05:32	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243203A	10/04/2011 20:23	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11277102201A	10/04/2011 19:38	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621201A	09/30/2011 05:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266373204A	09/23/2011 18:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11277102201A	10/04/2011 10:00	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11277039402A	10/04/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243203A	10/03/2011 12:00	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162401B	09/28/2011 22:01	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-124-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA7-SS-0.0-0.5

LLI Sample # SW 6415787
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:20

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5007 SDG#: DE250-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	24	J	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	32	J	17	340		1
04688	Fluoranthene	206-44-0	18	J	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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SSFL Area IV Collocated Soil Sampling
SL-124-SA7-SS-0.0-0.5

LLI Sample # SW 6415787
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:20

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5007 SDG#: DE250-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	19	J	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.64	J	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	3.3		0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	5.2		0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	8.1		0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	2.5		0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	21		0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	9.9	J	6.2	19		1
10138	Chrysene	218-01-9	6.1		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.2		0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	1.2	J	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19		1
10138	Phenanthrene	85-01-8	5.8		0.69	1.7		1
10138	Pyrene	129-00-0	9.7		0.69	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	6.9		0.64	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	150	U	150	260		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	0.29	U	0.29	0.29		1
10401	2,4,5-TP	93-72-1	0.40		0.077	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does

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SSFL Area IV Collocated Soil Sampling
SL-124-SA7-SS-0.0-0.5

LLI Sample # SW 6415787
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:20

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5007 SDG#: DE250-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	0.82	U	0.82	3.5		1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35		1
01363	p,p-DDE	72-55-9	1.2		0.068	0.35		1
01363	p,p-DDT	50-29-3	1.3		0.068	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.068	U	0.068	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.093	U	0.093	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.14	U	0.14	0.35		1
01363	Endrin	72-20-8	0.068	U	0.068	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.42	U	0.42	0.42		1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35		1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.21	U	0.21	0.35		1
01363	Toxaphene	8001-35-2	5.9	U	5.9	6.8		1
	The sample was injected following maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.							
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	4.7		1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1
10225	PCB-1254	11097-69-1	6.6		0.34	1.8		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,600		6.18	20.4		1

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Sample Description: **SL-124-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-124-SA7-SS-0.0-0.5

LLI Sample # SW 6415787
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:20

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E5007 SDG#: DE250-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	0.367	U	0.367	5.10		1
01650	Calcium	7440-70-2	4,440		2.55	20.4		1
01654	Iron	7439-89-6	22,100		2.64	20.2		1
01656	Lithium	7439-93-2	26.7		0.63	2.0		1
01657	Magnesium	7439-95-4	5,550		0.449	10.2		1
06958	Manganese	7439-96-5	392		0.0367	0.510		1
10145	Phosphorus	7723-14-0	535		0.357	10.2		1
01662	Potassium	7440-09-7	4,060		11.5	51.0		1
01667	Sodium	7440-23-5	91.7	J	6.07	102		1
07968	Strontium	7440-24-6	29.9		0.0255	0.510		1
06969	Tin	7440-31-5	3.23	J	0.327	10.2		1
06970	Titanium	7440-32-6	1,370		0.0725	1.02		1
10146	Zirconium	7440-67-7	2.64	J	0.470	5.10		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.227		0.0748	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.99		0.0809	0.404		2
06126	Barium	7440-39-3	140		0.107	0.404		2
06127	Beryllium	7440-41-7	0.659		0.0162	0.101		2
06128	Cadmium	7440-43-9	0.280		0.0445	0.101		2
06131	Chromium	7440-47-3	23.8		0.121	0.404		2
06132	Cobalt	7440-48-4	8.36		0.0202	0.101		2
06133	Copper	7440-50-8	14.3		0.0809	0.404		2
06135	Lead	7439-92-1	22.1		0.0103	0.202		2
06138	Molybdenum	7439-98-7	0.837		0.0505	0.101		2
06139	Nickel	7440-02-0	18.0		0.101	0.404		2
06141	Selenium	7782-49-2	0.259	J	0.0586	0.404		2
06142	Silver	7440-22-4	0.0571	J	0.0144	0.101		2
06145	Thallium	7440-28-0	0.333		0.0303	0.101		2
06148	Vanadium	7440-62-2	46.4		0.0222	0.101		2
06149	Zinc	7440-66-6	128		0.566	3.03		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0286	J	0.0070	0.0999		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.83	U	0.83	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	30.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1

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Sample Description: **SL-124-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-124-SA7-SS-0.0-0.5

LLI Sample # SW 6415787
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:20

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E5007 SDG#: DE250-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.85	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	3.0	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11277SLD026	10/06/2011 12:43	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11270SLA026	10/07/2011 18:52	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11270SLA026	09/28/2011 09:40	Roza S Goslawska	1
00381	BNA Soil Sonication	SW-846 3550B	2	11277SLD026	10/05/2011 08:20	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112690021A	10/01/2011 03:02	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112690019A	10/02/2011 23:26	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670056A	10/01/2011 02:07	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112690019A	09/29/2011 12:15	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670056A	09/28/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112690021A	09/29/2011 02:00	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	112665708002	09/30/2011 22:04	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112665708002	09/30/2011 22:04	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112665708002	09/30/2011 22:04	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708001	10/06/2011 13:40	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112665708002	09/30/2011 22:04	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112665708002	09/30/2011 22:04	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112665708002	09/30/2011 22:04	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112665708002	09/30/2011 22:04	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112665708002	09/30/2011 22:04	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112665708002	09/30/2011 22:04	John W Yanzuk II	1

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Sample Description: **SL-124-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-124-SA7-SS-0.0-0.5

LLI Sample # SW 6415787
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:20

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5007 SDG#: DE250-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112665708002	09/30/2011 22:04	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112665708002	09/30/2011 22:04	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112665708002	09/30/2011 22:04	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112665708002	09/30/2011 22:04	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112661026001A	09/26/2011 12:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112661026001A	09/26/2011 12:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112661026001D	09/26/2011 12:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112661026001A	09/26/2011 12:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112661026001A	09/26/2011 12:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112661026001A	09/26/2011 12:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112661026001A	09/26/2011 12:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112661026001A	09/26/2011 12:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112661026001A	09/26/2011 12:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112661026001C	09/26/2011 12:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112661026001A	09/26/2011 12:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112661026001B	09/26/2011 12:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112661026001A	09/26/2011 12:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112661026001A	09/26/2011 12:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112661026001A	09/26/2011 12:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112661026001A	09/26/2011 12:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112665711005	09/26/2011 10:25	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112665708002	09/25/2011 19:59	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708001	10/04/2011 22:20	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708001	10/05/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112661026001	09/25/2011 20:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112665711005	09/26/2011 00:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621201A	10/01/2011 02:11	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11266373204A	10/05/2011 05:55	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243203A	10/04/2011 20:30	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621201A	09/30/2011 05:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266373204A	09/23/2011 18:00	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11277039402A	10/04/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243203A	10/03/2011 12:00	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162401B	09/28/2011 22:01	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-175-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-175-SA7-SS-0.0-0.5

LLI Sample # SW 6415788
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 09:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5008 SDG#: DE250-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(b)fluoranthene	205-99-2	72	J	17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	24	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	U	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	23	J	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1

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Sample Description: **SL-175-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-175-SA7-SS-0.0-0.5

LLI Sample # SW 6415788
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 09:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5008 SDG#: DE250-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	6.7	U	6.7	17		10
10138	Acenaphthylene	208-96-8	3.4	U	3.4	17		10
10138	Anthracene	120-12-7	9.5	J	3.4	17		10
10138	Benzo(a)anthracene	56-55-3	61		6.7	17		10
10138	Benzo(a)pyrene	50-32-8	45		6.7	17		10
10138	Benzo(k)fluoranthene	207-08-9	26		6.7	17		10
10138	Chrysene	218-01-9	65		3.4	17		10
10138	Dibenz(a,h)anthracene	53-70-3	6.7	U	6.7	17		10
10138	Fluoranthene	206-44-0	110		6.7	17		10
10138	Fluorene	86-73-7	6.7	U	6.7	17		10
10138	1-Methylnaphthalene	90-12-0	6.7	U	6.7	17		10
10138	2-Methylnaphthalene	91-57-6	6.7	U	6.7	17		10
10138	Naphthalene	91-20-3	6.7	U	6.7	17		10
10138	N-Nitrosodimethylamine	62-75-9	6.7	U	6.7	17		10
10138	Phenanthrene	85-01-8	19		6.7	17		10
10138	Pyrene	129-00-0	110		6.7	17		10
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	6.2		0.63	1.7		1
10401	Dicamba	1918-00-9	0.44	U	0.44	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	1,700		77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory							

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Sample Description: **SL-175-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-175-SA7-SS-0.0-0.5

LLI Sample # SW 6415788
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 09:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5008 SDG#: DE250-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	statistical limits of 0-36%, the data is reported.							
	Reporting limits were raised due to interference from the sample matrix.							
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.1	U	2.1	5.1		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.052	J	0.034	0.17		1
01363	Chlordane	57-74-9	3.1	J	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.17	U	0.17	0.34		1
01363	p,p-DDT	50-29-3	0.47	U	0.47	0.47		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.16	U	0.16	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.15	U	0.15	0.34		1
01363	Toxaphene	8001-35-2	5.4	U	5.4	6.7		1
	The sample was injected following maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	5.6		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	3.0		0.33	1.7		1
10225	PCB-1260	11096-82-5	2.2		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	220	J	100	510		1

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Sample Description: **SL-175-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-175-SA7-SS-0.0-0.5

LLI Sample # SW 6415788
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 09:00

Submitted: 09/22/2011 08:50
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5008 SDG#: DE250-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.81	U	0.81	2.4		2
10199	EFH (C15-C20)	n.a.	0.96	J	0.81	2.4		2
10199	EFH (C21-C30)	n.a.	32		0.81	2.4		2
10199	EFH (C30 - C40)	n.a.	60		0.81	2.4		2
10199	EFH (C8-C11)	n.a.	0.81	U	0.81	2.4		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,000		6.07	20.1		1
07914	Boron	7440-42-8	0.361	U	0.361	5.02		1
01650	Calcium	7440-70-2	4,910		2.51	20.1		1
01654	Iron	7439-89-6	22,000		2.54	19.5		1
01656	Lithium	7439-93-2	20.4		0.62	2.0		1
01657	Magnesium	7439-95-4	4,670		0.441	10.0		1
06958	Manganese	7439-96-5	292		0.0361	0.502		1
10145	Phosphorus	7723-14-0	413		0.351	10.0		1
01662	Potassium	7440-09-7	3,440		11.3	50.2		1
01667	Sodium	7440-23-5	90.4	J	5.97	100		1
07968	Strontium	7440-24-6	20.8		0.0251	0.502		1
06969	Tin	7440-31-5	3.10	J	0.321	10.0		1
06970	Titanium	7440-32-6	1,350		0.0712	1.00		1
10146	Zirconium	7440-67-7	3.44	J	0.461	5.02		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.309		0.0742	0.201		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.27		0.0803	0.401		2
06126	Barium	7440-39-3	113		0.106	0.401		2
06127	Beryllium	7440-41-7	0.615		0.0161	0.100		2
06128	Cadmium	7440-43-9	0.300		0.0441	0.100		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-175-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-175-SA7-SS-0.0-0.5

LLI Sample # SW 6415788
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 09:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5008 SDG#: DE250-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	21.5		0.120	0.401		2
06132	Cobalt	7440-48-4	7.63		0.0201	0.100		2
06133	Copper	7440-50-8	14.3		0.0803	0.401		2
06135	Lead	7439-92-1	12.7		0.0102	0.201		2
06138	Molybdenum	7439-98-7	0.667		0.0502	0.100		2
06139	Nickel	7440-02-0	14.3		0.100	0.401		2
06141	Selenium	7782-49-2	0.111	J	0.0582	0.401		2
06142	Silver	7440-22-4	0.0381	J	0.0142	0.100		2
06145	Thallium	7440-28-0	0.294		0.0301	0.100		2
06148	Vanadium	7440-62-2	44.9		0.0221	0.100		2
06149	Zinc	7440-66-6	184		1.40	7.52		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0159	J	0.0066	0.0942		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.46	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.38		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-175-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-175-SA7-SS-0.0-0.5

LLI Sample # SW 6415788
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 09:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5008 SDG#: DE250-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11277SLD026	10/06/2011 13:08	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11270SLA026	10/08/2011 00:11	Gregory J Drahovsky	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11270SLA026	09/28/2011 09:40	Roza S Goslawska	1
00381	BNA Soil Sonication	SW-846 3550B	2	11277SLD026	10/05/2011 08:20	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112690021A	10/01/2011 03:29	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112690003A	09/27/2011 17:34	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112690019A	10/05/2011 01:44	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670056A	10/01/2011 02:26	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112690019A	09/29/2011 12:15	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670056A	09/28/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112690021A	09/29/2011 02:00	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112690003A	09/27/2011 07:00	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112670066A	09/26/2011 21:07	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112730030A	09/30/2011 22:23	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112720009A	09/30/2011 23:31	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112720035A	10/04/2011 07:01	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	112720035A	09/30/2011 08:10	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112720009A	09/29/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112670066A	09/26/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112730030A	09/30/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112665708002	09/30/2011 22:09	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112665708002	09/30/2011 22:09	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112665708002	09/30/2011 22:09	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708001	10/06/2011 13:44	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112665708002	09/30/2011 22:09	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112665708002	09/30/2011 22:09	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112665708002	09/30/2011 22:09	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112665708002	09/30/2011 22:09	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112665708002	09/30/2011 22:09	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112665708002	09/30/2011 22:09	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112665708002	09/30/2011 22:09	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112665708002	09/30/2011 22:09	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112665708002	09/30/2011 22:09	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112665708002	09/30/2011 22:09	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112661026001A	09/26/2011 12:22	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-175-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-175-SA7-SS-0.0-0.5

LLI Sample # SW 6415788
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 09:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5008 SDG#: DE250-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	112661026001A	09/26/2011 12:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112661026001D	09/26/2011 12:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112661026001A	09/26/2011 12:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112661026001A	09/26/2011 12:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112661026001A	09/26/2011 12:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112661026001A	09/26/2011 12:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112661026001A	09/26/2011 12:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112661026001A	09/26/2011 12:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112661026001C	09/26/2011 12:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112661026001A	09/26/2011 12:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112661026001B	09/26/2011 12:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112661026001A	09/26/2011 12:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112661026001A	09/26/2011 12:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112661026001A	09/26/2011 12:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112661026001A	09/26/2011 13:06	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	112665711005	09/26/2011 10:26	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112665708002	09/25/2011 19:59	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708001	10/04/2011 22:20	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708001	10/05/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112661026001	09/25/2011 20:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112665711005	09/26/2011 00:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621201A	10/01/2011 02:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11266373204B	10/05/2011 10:32	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243203A	10/04/2011 20:44	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11277102201A	10/04/2011 19:39	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621201A	09/30/2011 05:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266373204B	09/23/2011 18:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11277102201A	10/04/2011 10:00	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11277039402A	10/04/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243203A	10/03/2011 12:00	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162401B	09/28/2011 22:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: DUP04-SA7-QC-092111 Soil
SSFL Area IV Collocated Soil Sampling
DUP04-SA7-QC-092111

LLI Sample # SW 6415789
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:05

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5009 SDG#: DE250-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	4,300	U	4,300	13,000		5
04688	Benzidine	92-87-5	30,000	U	30,000	85,000		5
04688	Benzoic acid	65-85-0	7,300	J	4,300	13,000		5
04688	Benzyl alcohol	100-51-6	4,300	U	4,300	13,000		5
04688	4-Bromophenyl-phenylether	101-55-3	430	U	430	4,300		5
04688	Carbazole	86-74-8	430	U	430	4,300		5
04688	4-Chloro-3-methylphenol	59-50-7	850	U	850	4,300		5
04688	4-Chloroaniline	106-47-8	1,700	U	1,700	4,300		5
04688	bis(2-Chloroethoxy)methane	111-91-1	430	U	430	4,300		5
04688	bis(2-Chloroethyl)ether	111-44-4	430	U	430	4,300		5
04688	bis(2-Chloroisopropyl)ether	39638-32-9	430	U	430	4,300		5
04688	2-Chloronaphthalene	91-58-7	430	U	430	4,300		5
04688	2-Chlorophenol	95-57-8	430	U	430	4,300		5
04688	4-Chlorophenyl-phenylether	7005-72-3	850	U	850	4,300		5
04688	Dibenzofuran	132-64-9	430	U	430	4,300		5
04688	1,2-Dichlorobenzene	95-50-1	430	U	430	4,300		5
04688	1,3-Dichlorobenzene	541-73-1	430	U	430	4,300		5
04688	1,4-Dichlorobenzene	106-46-7	430	U	430	4,300		5
04688	3,3'-Dichlorobenzidine	91-94-1	2,600	U	2,600	8,500		5
04688	2,4-Dichlorophenol	120-83-2	430	U	430	4,300		5
04688	2,4-Dimethylphenol	105-67-9	850	U	850	4,300		5
04688	3,5-Dimethylphenol	108-68-9	850	U	850	4,300		5
04688	4,6-Dinitro-2-methylphenol	534-52-1	4,300	U	4,300	13,000		5
04688	2,4-Dinitrophenol	51-28-5	8,500	U	8,500	26,000		5
04688	2,4-Dinitrotoluene	121-14-2	850	U	850	4,300		5
04688	2,6-Dinitrotoluene	606-20-2	430	U	430	4,300		5
04688	1,2-Diphenylhydrazine	122-66-7	430	U	430	4,300		5
04688	Hexachlorobenzene	118-74-1	430	U	430	4,300		5
04688	Hexachlorobutadiene	87-68-3	1,700	U	1,700	4,300		5
04688	Hexachlorocyclopentadiene	77-47-4	4,300	U	4,300	13,000		5
04688	Hexachloroethane	67-72-1	430	U	430	4,300		5
04688	Isophorone	78-59-1	430	U	430	4,300		5
04688	2-Methylphenol	95-48-7	850	U	850	4,300		5
04688	4-Methylphenol	106-44-5	850	U	850	4,300		5
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	430	U	430	4,300		5
04688	3-Nitroaniline	99-09-2	850	U	850	4,300		5
04688	4-Nitroaniline	100-01-6	1,700	U	1,700	4,300		5
04688	Nitrobenzene	98-95-3	430	U	430	4,300		5
04688	2-Nitrophenol	88-75-5	430	U	430	4,300		5
04688	4-Nitrophenol	100-02-7	4,300	U	4,300	13,000		5
04688	N-Nitroso-di-n-propylamine	621-64-7	430	U	430	4,300		5
04688	N-Nitrosodiphenylamine	86-30-6	430	U	430	4,300		5
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	4,300	U	4,300	13,000		5
04688	Phenanthrene	85-01-8	470	J	430	4,300		5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP04-SA7-QC-092111 Soil
SSFL Area IV Collocated Soil Sampling
DUP04-SA7-QC-092111

LLI Sample # SW 6415789
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:05

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5009 SDG#: DE250-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	430	U	430	4,300		5
04688	Tetralin	119-64-2	4,300	U	4,300	4,300		5
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	430	U	430	4,300		5
04688	2,4,5-Trichlorophenol	95-95-4	850	U	850	4,300		5
04688	2,4,6-Trichlorophenol	88-06-2	850	U	850	4,300		5
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	13	U	13	34		20
10138	Acenaphthylene	208-96-8	6.7	U	6.7	34		20
10138	Anthracene	120-12-7	6.7	U	6.7	34		20
10138	Benzo(a)anthracene	56-55-3	20	J	13	34		20
10138	Benzo(a)pyrene	50-32-8	29	J	13	34		20
10138	Benzo(b)fluoranthene	205-99-2	89		13	34		20
10138	Benzo(g,h,i)perylene	191-24-2	35		13	34		20
10138	Benzo(k)fluoranthene	207-08-9	19	J	13	34		20
10138	Butylbenzylphthalate	85-68-7	120	U	120	360		20
10138	Di-n-butylphthalate	84-74-2	120	U	120	360		20
10138	Chrysene	218-01-9	110		6.7	34		20
10138	Dibenz(a,h)anthracene	53-70-3	17	J	13	34		20
10138	Diethylphthalate	84-66-2	120	U	120	360		20
10138	Dimethylphthalate	131-11-3	120	U	120	360		20
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	160	J	120	360		20
10138	Fluoranthene	206-44-0	75		13	34		20
10138	Fluorene	86-73-7	13	U	13	34		20
10138	Indeno(1,2,3-cd)pyrene	193-39-5	17	J	13	34		20
10138	1-Methylnaphthalene	90-12-0	13	U	13	34		20
10138	2-Methylnaphthalene	91-57-6	13	U	13	34		20
10138	Naphthalene	91-20-3	13	U	13	34		20
10138	N-Nitrosodimethylamine	62-75-9	13	U	13	34		20
10138	Di-n-octylphthalate	117-84-0	120	U	120	360		20
10138	Pyrene	129-00-0	49		13	34		20
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	0.64	U	0.64	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	78	U	78	260		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	0.14	J	0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17		1
	The recovery for Dinoseb is outside the QC limits. However, this compound does							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP04-SA7-QC-092111 Soil
SSFL Area IV Collocated Soil Sampling
DUP04-SA7-QC-092111

LLI Sample # SW 6415789
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:05

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5009 SDG#: DE250-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.2	U	2.2	5.1		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.34	U	0.34	0.85		5
01363	Alpha BHC	319-84-6	0.17	U	0.17	0.85		5
01363	Beta BHC	319-85-7	0.31	U	0.31	0.85		5
01363	Gamma BHC - Lindane	58-89-9	0.17	U	0.17	0.85		5
01363	Chlordane	57-74-9	4.1	U	4.1	17		5
01363	p,p-DDD	72-54-8	0.34	U	0.34	1.7		5
01363	p,p-DDE	72-55-9	1.3	J	0.34	1.7		5
01363	p,p-DDT	50-29-3	4.0		0.34	1.7		5
01363	Delta BHC	319-86-8	0.18	U	0.18	0.85		5
01363	Dieldrin	60-57-1	0.34	U	0.34	1.7		5
01363	Endosulfan I	959-98-8	0.23	U	0.23	0.85		5
01363	Endosulfan II	33213-65-9	0.34	U	0.34	1.7		5
01363	Endosulfan Sulfate	1031-07-8	0.52	U	0.52	1.7		5
01363	Endrin	72-20-8	0.34	U	0.34	1.7		5
01363	Endrin Aldehyde	7421-93-4	0.34	U	0.34	1.7		5
01363	Endrin Ketone	53494-70-5	0.34	U	0.34	1.7		5
01363	Heptachlor	76-44-8	0.31	U	0.31	0.85		5
01363	Heptachlor Epoxide	1024-57-3	0.30	J	0.17	0.85		5
01363	Methoxychlor	72-43-5	1.7	U	1.7	8.5		5
01363	Mirex	2385-85-5	1.4	U	1.4	1.7		5
01363	Toxaphene	8001-35-2	81	U	81	81		5
	The sample was injected following maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	14		0.34	1.7		1
10225	PCB-1260	11096-82-5	9.3		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1

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Sample Description: **DUP04-SA7-QC-092111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP04-SA7-QC-092111

LLI Sample # SW 6415789
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:05

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5009 SDG#: DE250-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	100	U	100	310		50
10199	EFH (C15-C20)	n.a.	100	U	100	310		50
10199	EFH (C21-C30)	n.a.	1,000		100	310		50
10199	EFH (C30 - C40)	n.a.	3,300		100	310		50
10199	EFH (C8-C11)	n.a.	100	U	100	310		50
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,700		6.02	19.9		1
07914	Boron	7440-42-8	3.78	J	0.358	4.97		1
01650	Calcium	7440-70-2	3,990		2.49	19.9		1
01654	Iron	7439-89-6	20,300		2.60	19.9		1
01656	Lithium	7439-93-2	18.8		0.62	2.0		1
01657	Magnesium	7439-95-4	3,780		0.438	9.95		1
06958	Manganese	7439-96-5	259		0.0358	0.497		1
10145	Phosphorus	7723-14-0	441		0.348	9.95		1
01662	Potassium	7440-09-7	3,810		11.2	49.7		1
01667	Sodium	7440-23-5	80.4	J	5.92	99.5		1
07968	Strontium	7440-24-6	20.8		0.0249	0.497		1
06969	Tin	7440-31-5	6.59	J	0.318	9.95		1
06970	Titanium	7440-32-6	1,130		0.0706	0.995		1
10146	Zirconium	7440-67-7	3.13	J	0.458	4.97		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.264		0.0751	0.203		2

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Sample Description: **DUP04-SA7-QC-092111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP04-SA7-QC-092111

LLI Sample # SW 6415789
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:05

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5009 SDG#: DE250-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.81		0.0812	0.406		2
06126	Barium	7440-39-3	107		0.108	0.406		2
06127	Beryllium	7440-41-7	0.578		0.0162	0.101		2
06128	Cadmium	7440-43-9	0.499		0.0446	0.101		2
06131	Chromium	7440-47-3	21.0		0.122	0.406		2
06132	Cobalt	7440-48-4	6.80		0.0203	0.101		2
06133	Copper	7440-50-8	14.4		0.0812	0.406		2
06135	Lead	7439-92-1	30.1		0.0103	0.203		2
06138	Molybdenum	7439-98-7	0.947		0.0507	0.101		2
06139	Nickel	7440-02-0	16.6		0.101	0.406		2
06141	Selenium	7782-49-2	0.161	J	0.0588	0.406		2
06142	Silver	7440-22-4	0.0652	J	0.0144	0.101		2
06145	Thallium	7440-28-0	0.257		0.0304	0.101		2
06148	Vanadium	7440-62-2	40.1		0.0223	0.101		2
06149	Zinc	7440-66-6	176		1.42	7.61		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0233	J	0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.37	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	5.91		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: DUP04-SA7-QC-092111 Soil
SSFL Area IV Collocated Soil Sampling
DUP04-SA7-QC-092111

LLI Sample # SW 6415789
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:05

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5009 SDG#: DE250-09FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11277SLD026	10/06/2011 13:33	Brian K Graham	5
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11270SLA026	10/09/2011 08:42	Chad A Moline	20
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11270SLA026	09/28/2011 09:40	Roza S Goslawska	1
00381	BNA Soil Sonication	SW-846 3550B	2	11277SLD026	10/05/2011 08:20	Katheryne V Sponheimer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112690021A	10/01/2011 03:57	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112690003A	09/27/2011 17:47	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112690019A	10/03/2011 01:10	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670056A	10/01/2011 02:45	Jamie L Brillhart	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112690019A	09/29/2011 12:15	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670056A	09/28/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112690021A	09/29/2011 02:00	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112690003A	09/27/2011 07:00	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112670066A	09/26/2011 21:22	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112730030A	09/30/2011 22:36	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112720009A	10/01/2011 07:18	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112720035A	10/04/2011 10:12	Heather E Williams	50
11238	EFH Extraction - Soils	SW-846 3550B	1	112720035A	09/30/2011 08:10	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112720009A	09/29/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112670066A	09/26/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112730030A	09/30/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112665708002	09/30/2011 22:12	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112665708002	09/30/2011 22:12	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112665708002	09/30/2011 22:12	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708001	10/06/2011 13:48	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112665708002	09/30/2011 22:12	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112665708002	09/30/2011 22:12	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112665708002	09/30/2011 22:12	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112665708002	09/30/2011 22:12	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112665708002	09/30/2011 22:12	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP04-SA7-QC-092111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP04-SA7-QC-092111

LLI Sample # SW 6415789
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:05

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5009 SDG#: DE250-09FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	112665708002	09/30/2011 22:12	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112665708002	09/30/2011 22:12	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112665708002	09/30/2011 22:12	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112665708002	09/30/2011 22:12	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112665708002	09/30/2011 22:12	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112661026001A	09/26/2011 12:25	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112661026001A	09/26/2011 12:25	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112661026001D	09/26/2011 12:25	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112661026001A	09/26/2011 12:25	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112661026001A	09/26/2011 12:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112661026001A	09/26/2011 12:25	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112661026001A	09/26/2011 12:25	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112661026001A	09/26/2011 12:25	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112661026001A	09/26/2011 12:25	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112661026001C	09/26/2011 12:25	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112661026001A	09/26/2011 12:25	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112661026001B	09/26/2011 12:25	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112661026001A	09/26/2011 12:25	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112661026001A	09/26/2011 12:25	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112661026001A	09/26/2011 12:25	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112661026001A	09/27/2011 18:11	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	112665711005	09/26/2011 10:28	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112665708002	09/25/2011 19:59	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708001	10/04/2011 22:20	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708001	10/05/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112661026001	09/25/2011 20:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112665711005	09/26/2011 00:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621201A	10/01/2011 02:41	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11266373204A	10/05/2011 06:18	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243203A	10/04/2011 21:06	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11277102201A	10/04/2011 19:40	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621201A	09/30/2011 05:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266373204A	09/23/2011 18:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11277102201A	10/04/2011 10:00	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11277039402A	10/04/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243203A	10/03/2011 12:00	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162401B	09/28/2011 22:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-056-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA7-SB-4.0-5.0

LLI Sample # SW 6415790
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:42

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5010 SDG#: DE250-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.2	U	18.2	36.3		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Sample Description: **SL-056-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA7-SB-4.0-5.0

LLI Sample # SW 6415790
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:42

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5010 SDG#: DE250-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.63
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	66	U	66	130	10000000	1

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Sample Description: **SL-056-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA7-SB-4.0-5.0

LLI Sample # SW 6415790
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:42

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5010 SDG#: DE250-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	88	U	88	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	88	U	88	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	880	U	880	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	88	U	88	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	88	U	88	130	10000000	1
10132	PETN	78-11-5	880	U	880	2,700	10000000	1
10132	RDX	121-82-4	55	U	55	130	10000000	1
10132	Tetryl	479-45-8	68	U	68	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	660	U	660	1,700		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1

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Sample Description: **SL-056-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA7-SB-4.0-5.0

LLI Sample # SW 6415790
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:42

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5010 SDG#: DE250-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	1.3	J	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,200		6.62	21.9		1
07914	Boron	7440-42-8	0.394	U	0.394	5.47		1
01650	Calcium	7440-70-2	2,990		2.74	21.9		1
01654	Iron	7439-89-6	22,000		2.83	21.7		1
01656	Lithium	7439-93-2	24.3		0.68	2.2		1
01657	Magnesium	7439-95-4	5,110		0.481	10.9		1
06958	Manganese	7439-96-5	240		0.0394	0.547		1
10145	Phosphorus	7723-14-0	286		0.383	10.9		1
01662	Potassium	7440-09-7	2,390		12.4	54.7		1
01667	Sodium	7440-23-5	118		6.51	109		1
07968	Strontium	7440-24-6	13.7		0.0274	0.547		1
06969	Tin	7440-31-5	3.12	J	0.350	10.9		1
06970	Titanium	7440-32-6	1,290		0.0777	1.09		1
10146	Zirconium	7440-67-7	2.54	J	0.503	5.47		1

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Sample Description: **SL-056-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA7-SB-4.0-5.0

LLI Sample # SW 6415790
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:42

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5010 SDG#: DE250-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0994	J	0.0802	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.66		0.0867	0.433		2
06126	Barium	7440-39-3	114		0.115	0.433		2
06127	Beryllium	7440-41-7	0.711		0.0173	0.108		2
06128	Cadmium	7440-43-9	0.0809	J	0.0477	0.108		2
06131	Chromium	7440-47-3	20.1		0.130	0.433		2
06132	Cobalt	7440-48-4	7.70		0.0217	0.108		2
06133	Copper	7440-50-8	8.48		0.0867	0.433		2
06135	Lead	7439-92-1	5.71		0.0110	0.217		2
06138	Molybdenum	7439-98-7	0.562		0.0542	0.108		2
06139	Nickel	7440-02-0	13.6		0.108	0.433		2
06141	Selenium	7782-49-2	0.107	J	0.0628	0.433		2
06142	Silver	7440-22-4	0.0187	J	0.0154	0.108		2
06145	Thallium	7440-28-0	0.317		0.0325	0.108		2
06148	Vanadium	7440-62-2	42.2		0.0238	0.108		2
06149	Zinc	7440-66-6	70.6		0.607	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0077	U	0.0077	0.110		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.7		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.4		0.88	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.38	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.62		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-056-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-056-SA7-SB-4.0-5.0

LLI Sample # SW 6415790
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:42

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5010 SDG#: DE250-10

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-056-SA7-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11272SLB026	10/03/2011 21:27	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11277SLD026	10/06/2011 13:58	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11270SLA026	10/07/2011 19:25	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11272SLB026	09/30/2011 08:30	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11270SLA026	09/28/2011 09:40	Roza S Goslawska	1
00381	BNA Soil Sonication	SW-846 3550B	2	11277SLD026	10/05/2011 08:20	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11270B34A	09/27/2011 21:14	Linda C Pape	21.63
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201126525623	09/22/2011 22:02	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201126525623	09/22/2011 22:03	Lois E Hiltz	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112690017A	10/05/2011 05:39	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670064A	09/29/2011 19:28	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112690003A	09/27/2011 17:59	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670056A	10/01/2011 03:04	Jamie L Brillhart	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670056A	09/28/2011 10:30	Olivia Arosemena	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112690003A	09/27/2011 07:00	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670064A	09/28/2011 12:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	112690017A	09/29/2011 14:30	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112670066A	09/26/2011 21:36	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112730030A	09/30/2011 22:49	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112720009A	09/30/2011 23:58	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112720035A	10/04/2011 03:03	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112720035A	09/30/2011 08:10	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112720009A	09/29/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112670066A	09/26/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112730030A	09/30/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112665708002	09/30/2011 22:16	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112665708002	09/30/2011 22:16	John W Yanzuk II	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-056-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA7-SB-4.0-5.0

LLI Sample # SW 6415790
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:42

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5010 SDG#: DE250-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	112665708002	09/30/2011 22:16	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708001	10/06/2011 13:52	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112665708002	09/30/2011 22:16	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112665708002	09/30/2011 22:16	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112665708002	09/30/2011 22:16	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112665708002	09/30/2011 22:16	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112665708002	09/30/2011 22:16	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112665708002	09/30/2011 22:16	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112665708002	09/30/2011 22:16	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112665708002	09/30/2011 22:16	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112665708002	09/30/2011 22:16	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112665708002	09/30/2011 22:16	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112661026001A	09/26/2011 12:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112661026001A	09/26/2011 12:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112661026001D	09/26/2011 12:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112661026001A	09/26/2011 12:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112661026001A	09/26/2011 12:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112661026001A	09/26/2011 12:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112661026001A	09/26/2011 12:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112661026001A	09/26/2011 12:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112661026001A	09/26/2011 12:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112661026001C	09/26/2011 12:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112661026001A	09/26/2011 12:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112661026001B	09/26/2011 12:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112661026001A	09/26/2011 12:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112661026001A	09/26/2011 12:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112661026001A	09/26/2011 12:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112661026001A	09/26/2011 12:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112665711005	09/26/2011 10:29	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112665708002	09/25/2011 19:59	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708001	10/04/2011 22:20	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708001	10/05/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112661026001	09/25/2011 20:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112665711005	09/26/2011 00:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621201A	10/01/2011 02:56	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11273196601A	10/01/2011 02:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11266373204A	10/05/2011 06:41	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243203A	10/04/2011 21:20	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11277102201A	10/04/2011 19:41	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621201A	09/30/2011 05:40	William L Hamaker Jr	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-056-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA7-SB-4.0-5.0

LLI Sample # SW 6415790
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:42

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5010 SDG#: DE250-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266373204A	09/23/2011 18:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11277102201A	10/04/2011 10:00	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11277039402B	10/04/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243203A	10/03/2011 12:00	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11284162402A	10/11/2011 18:16	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-057-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA7-SB-3.0-4.0

LLI Sample # SW 6415791
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:05

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5011 SDG#: DE250-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	18.0	U	18.0	36.0		1
	The internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1

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Sample Description: **SL-057-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-057-SA7-SB-3.0-4.0

LLI Sample # SW 6415791
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:05

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5011 SDG#: DE250-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.91	J	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.19
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	65	U	65	130	10000000	1

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Sample Description: **SL-057-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-057-SA7-SB-3.0-4.0

LLI Sample # SW 6415791
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:05

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5011 SDG#: DE250-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	44	U	44	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	87	U	87	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	87	U	87	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	44	U	44	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	44	U	44	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	44	U	44	130	10000000	1
10132	HMX	2691-41-0	110	U	110	330	10000000	1
10132	Nitrobenzene	98-95-3	44	U	44	130	10000000	1
10132	Nitroglycerin	55-63-0	870	U	870	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	87	U	87	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	87	U	87	130	10000000	1
10132	PETN	78-11-5	870	U	870	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	67	U	67	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	44	U	44	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	44	U	44	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	650	U	650	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.9		1

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Sample Description: **SL-057-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-057-SA7-SB-3.0-4.0

LLI Sample # SW 6415791
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:05

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5011 SDG#: DE250-11

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs		**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262		37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268		11100-14-4	0.36	U	0.36	1.9		1
GC Miscellaneous		**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol		64-17-5	110	U	110	540		1
10501	Isopropanol		67-63-0	110	U	110	540		1
10501	Methanol		67-56-1	110	U	110	540		1
GC Miscellaneous		**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol		111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol		107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol		57-55-6	5.4	U	5.4	11		1
GC Petroleum Hydrocarbons		**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl		92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl		84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl		92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons		**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)		n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)		n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)		n.a.	2.2		0.43	1.3		1
10199	EFH (C30 - C40)		n.a.	5.0		0.43	1.3		1
10199	EFH (C8-C11)		n.a.	0.43	U	0.43	1.3		1
Metals		**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum		7429-90-5	14,000		6.34	20.9		1
07914	Boron		7440-42-8	0.377	U	0.377	5.24		1
01650	Calcium		7440-70-2	2,680		2.62	20.9		1
01654	Iron		7439-89-6	20,200		2.79	21.4		1
01656	Lithium		7439-93-2	22.8		0.65	2.1		1
01657	Magnesium		7439-95-4	4,810		0.461	10.5		1
06958	Manganese		7439-96-5	199		0.0377	0.524		1
10145	Phosphorus		7723-14-0	265		0.367	10.5		1
01662	Potassium		7440-09-7	2,200		11.8	52.4		1
01667	Sodium		7440-23-5	133		6.23	105		1
07968	Strontium		7440-24-6	11.4		0.0262	0.524		1
06969	Tin		7440-31-5	3.09	J	0.335	10.5		1
06970	Titanium		7440-32-6	1,200		0.0744	1.05		1
10146	Zirconium		7440-67-7	2.46	J	0.482	5.24		1
		SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony		7440-36-0	0.0955	J	0.0775	0.209		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-057-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-057-SA7-SB-3.0-4.0

LLI Sample # SW 6415791
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:05

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5011 SDG#: DE250-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.40	0.0838	0.419		2
06126	Barium	7440-39-3	88.9	0.111	0.419		2
06127	Beryllium	7440-41-7	0.612	0.0168	0.105		2
06128	Cadmium	7440-43-9	0.0781 J	0.0461	0.105		2
06131	Chromium	7440-47-3	18.1	0.126	0.419		2
06132	Cobalt	7440-48-4	5.96	0.0209	0.105		2
06133	Copper	7440-50-8	7.63	0.0838	0.419		2
06135	Lead	7439-92-1	5.89	0.0107	0.209		2
06138	Molybdenum	7439-98-7	0.527	0.0524	0.105		2
06139	Nickel	7440-02-0	11.5	0.105	0.419		2
06141	Selenium	7782-49-2	0.175 J	0.0608	0.419		2
06142	Silver	7440-22-4	0.0183 J	0.0149	0.105		2
06145	Thallium	7440-28-0	0.277	0.0314	0.105		2
06148	Vanadium	7440-62-2	37.7	0.0230	0.105		2
06149	Zinc	7440-66-6	61.5	0.587	3.14		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0099 J	0.0074	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.8	0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.4	0.87	1.6		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8 U	9.8	32.7		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.34 J	0.22	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.53		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.04	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.2	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-057-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA7-SB-3.0-4.0

LLI Sample # SW 6415791
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:05

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5011 SDG#: DE250-11

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-057-SA7-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11272SLB026	10/03/2011 22:51	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11277SLD026	10/06/2011 14:23	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11270SLA026	10/07/2011 19:56	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11272SLB026	09/30/2011 08:30	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11270SLA026	09/28/2011 09:40	Roza S Goslawska	1
00381	BNA Soil Sonication	SW-846 3550B	2	11277SLD026	10/05/2011 08:20	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11270B34A	09/27/2011 21:51	Linda C Pape	23.19
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201126525623	09/22/2011 22:04	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201126525623	09/22/2011 22:05	Lois E Hiltz	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112690017A	10/05/2011 07:46	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670064A	09/29/2011 19:38	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670056A	10/01/2011 03:23	Jamie L Brillhart	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670056A	09/28/2011 10:30	Olivia Arosemena	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670064A	09/28/2011 12:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	112690017A	09/29/2011 14:30	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112670066A	09/26/2011 21:51	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112730030A	09/30/2011 23:02	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112720009A	10/01/2011 00:26	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112720035A	10/04/2011 03:27	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112720035A	09/30/2011 08:10	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112720009A	09/29/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112670066A	09/26/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112730030A	09/30/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112665708002	09/30/2011 22:20	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112665708002	09/30/2011 22:20	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112665708002	09/30/2011 22:20	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708001	10/06/2011 13:56	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112665708002	09/30/2011 22:20	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112665708002	09/30/2011 22:20	John W Yanzuk II	1

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Sample Description: **SL-057-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-057-SA7-SB-3.0-4.0

LLI Sample # SW 6415791
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:05

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5011 SDG#: DE250-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	112665708002	09/30/2011 22:20	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112665708002	09/30/2011 22:20	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112665708002	09/30/2011 22:20	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112665708002	09/30/2011 22:20	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112665708002	09/30/2011 22:20	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112665708002	09/30/2011 22:20	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112665708002	09/30/2011 22:20	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112665708002	09/30/2011 22:20	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112661026001A	09/26/2011 12:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112661026001A	09/26/2011 12:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112661026001D	09/26/2011 12:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112661026001A	09/26/2011 12:32	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112661026001A	09/26/2011 12:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112661026001A	09/26/2011 12:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112661026001A	09/26/2011 12:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112661026001A	09/26/2011 12:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112661026001A	09/26/2011 12:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112661026001C	09/26/2011 12:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112661026001A	09/26/2011 12:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112661026001B	09/26/2011 12:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112661026001A	09/26/2011 12:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112661026001A	09/26/2011 12:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112661026001A	09/26/2011 12:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112661026001A	09/26/2011 12:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112665711005	09/26/2011 10:30	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112665708002	09/25/2011 19:59	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708001	10/04/2011 22:20	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708001	10/05/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112661026001	09/25/2011 20:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112665711005	09/26/2011 00:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621201B	10/01/2011 03:12	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11273196601B	10/01/2011 03:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11266373204A	10/05/2011 07:04	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243203A	10/04/2011 21:43	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11277102201A	10/04/2011 19:42	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621201B	09/30/2011 05:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266373204A	09/23/2011 18:00	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11277102201A	10/04/2011 10:00	Nancy J Shoop	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **SL-057-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-057-SA7-SB-3.0-4.0

LLI Sample # SW 6415791
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:05

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5011 SDG#: DE250-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	17a pH by 9045C	SW-846 9045C modified	1	11277039402B	10/04/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243203A	10/03/2011 12:00	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11284162402A	10/11/2011 18:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-078-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA7-SB-4.0-5.0

LLI Sample # SW 6415792
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 12:09

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5012 SDG#: DE250-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-078-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA7-SB-4.0-5.0

LLI Sample # SW 6415792
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 12:09

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5012 SDG#: DE250-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.89
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1

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Sample Description: **SL-078-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA7-SB-4.0-5.0

LLI Sample # SW 6415792
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 12:09

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5012 SDG#: DE250-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	2.3		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	3.0		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,400		6.61	21.9		1
07914	Boron	7440-42-8	0.393	U	0.393	5.46		1
01650	Calcium	7440-70-2	2,160		2.73	21.9		1
01654	Iron	7439-89-6	22,000		2.80	21.4		1
01656	Lithium	7439-93-2	25.3		0.68	2.2		1
01657	Magnesium	7439-95-4	4,030		0.481	10.9		1
06958	Manganese	7439-96-5	209		0.0393	0.546		1
10145	Phosphorus	7723-14-0	164		0.382	10.9		1
01662	Potassium	7440-09-7	1,470		12.3	54.6		1
01667	Sodium	7440-23-5	111		6.50	109		1
07968	Strontium	7440-24-6	23.9		0.0273	0.546		1
06969	Tin	7440-31-5	3.29	J	0.350	10.9		1
06970	Titanium	7440-32-6	1,340		0.0776	1.09		1
10146	Zirconium	7440-67-7	4.02	J	0.503	5.46		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-078-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA7-SB-4.0-5.0

LLI Sample # SW 6415792
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 12:09

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5012 SDG#: DE250-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.108 J	0.0793	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.70	0.0857	0.429		2
06126	Barium	7440-39-3	133	0.114	0.429		2
06127	Beryllium	7440-41-7	1.10	0.0171	0.107		2
06128	Cadmium	7440-43-9	0.0472 U	0.0472	0.107		2
06131	Chromium	7440-47-3	23.3	0.129	0.429		2
06132	Cobalt	7440-48-4	7.67	0.0214	0.107		2
06133	Copper	7440-50-8	7.34	0.0857	0.429		2
06135	Lead	7439-92-1	8.41	0.0109	0.214		2
06138	Molybdenum	7439-98-7	1.39	0.0536	0.107		2
06139	Nickel	7440-02-0	14.8	0.107	0.429		2
06141	Selenium	7782-49-2	0.159 J	0.0622	0.429		2
06142	Silver	7440-22-4	0.0523 J	0.0152	0.107		2
06145	Thallium	7440-28-0	0.258	0.0321	0.107		2
06148	Vanadium	7440-62-2	48.8	0.0236	0.107		2
06149	Zinc	7440-66-6	58.5	0.600	3.21		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0169 J	0.0073	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1	0.87	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.1		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.60 J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.00	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.4	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: **SL-078-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA7-SB-4.0-5.0

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E5012 SDG#: DE250-12

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-078-SA7-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11277SLD026	10/06/2011 14:48	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11270SLA026	10/07/2011 20:28	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11270SLA026	09/28/2011 09:40	Roza S Goslawska	1
00381	BNA Soil Sonication	SW-846 3550B	2	11277SLD026	10/05/2011 08:20	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11270B34A	09/27/2011 22:27	Linda C Pape	21.89
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201126525623	09/22/2011 22:06	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201126525623	09/22/2011 22:07	Lois E Hiltz	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670056A	10/01/2011 03:41	Jamie L Brillhart	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670056A	09/28/2011 10:30	Olivia Arosemena	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112670066A	09/26/2011 22:06	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112730030A	09/30/2011 23:14	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112720009A	10/01/2011 00:53	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112720035A	10/04/2011 03:51	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112720035A	09/30/2011 08:10	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112720009A	09/29/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112670066A	09/26/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112730030A	09/30/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112665708002	09/30/2011 22:24	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112665708002	09/30/2011 22:24	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112665708002	09/30/2011 22:24	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708001	10/06/2011 14:00	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112665708002	09/30/2011 22:24	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112665708002	09/30/2011 22:24	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112665708002	09/30/2011 22:24	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112665708002	09/30/2011 22:24	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112665708002	09/30/2011 22:24	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112665708002	09/30/2011 22:24	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112665708002	09/30/2011 22:24	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112665708002	09/30/2011 22:24	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112665708002	09/30/2011 22:24	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112665708002	09/30/2011 22:24	John W Yanzuk II	1

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Sample Description: **SL-078-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA7-SB-4.0-5.0

LLI Sample # SW 6415792
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E5012 SDG#: DE250-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112661026001A	09/26/2011 12:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112661026001A	09/26/2011 12:35	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112661026001D	09/26/2011 12:35	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112661026001A	09/26/2011 12:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112661026001A	09/26/2011 12:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112661026001A	09/26/2011 12:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112661026001A	09/26/2011 12:35	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112661026001A	09/26/2011 12:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112661026001A	09/26/2011 12:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112661026001C	09/26/2011 12:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112661026001A	09/26/2011 12:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112661026001B	09/26/2011 12:35	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112661026001A	09/26/2011 12:35	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112661026001A	09/26/2011 12:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112661026001A	09/26/2011 12:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112661026001A	09/26/2011 12:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112665711005	09/26/2011 10:31	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112665708002	09/25/2011 19:59	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708001	10/04/2011 22:20	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708001	10/05/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112661026001	09/25/2011 20:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112665711005	09/26/2011 00:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621201B	10/01/2011 04:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11266373204B	10/05/2011 07:27	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243203A	10/04/2011 21:58	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621201B	09/30/2011 05:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266373204B	09/23/2011 18:00	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11277039402B	10/04/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243203A	10/03/2011 12:00	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162401B	09/28/2011 22:01	Scott W Freisher	1

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Analysis Report

Sample Description: SL-078-SA7-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA7-SB-7.0-8.0

LLI Sample # SW 6415793
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 12:13

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

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14420 Albemarle Point Place
Suite 210
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E5013 SDG#: DE250-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: **SL-078-SA7-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA7-SB-7.0-8.0

LLI Sample # SW 6415793
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 12:13

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5013 SDG#: DE250-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		22.44
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1

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Sample Description: **SL-078-SA7-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA7-SB-7.0-8.0

LLI Sample # SW 6415793
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 12:13

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5013 SDG#: DE250-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	2.8		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	3.4		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,800		6.47	21.4		1
07914	Boron	7440-42-8	0.385	U	0.385	5.35		1
01650	Calcium	7440-70-2	1,490		2.67	21.4		1
01654	Iron	7439-89-6	23,100		2.85	21.8		1
01656	Lithium	7439-93-2	18.4		0.66	2.1		1
01657	Magnesium	7439-95-4	4,000		0.470	10.7		1
06958	Manganese	7439-96-5	143		0.0385	0.535		1
10145	Phosphorus	7723-14-0	108		0.374	10.7		1
01662	Potassium	7440-09-7	1,600		12.1	53.5		1
01667	Sodium	7440-23-5	126		6.36	107		1
07968	Strontium	7440-24-6	14.5		0.0267	0.535		1
06969	Tin	7440-31-5	3.42	J	0.342	10.7		1
06970	Titanium	7440-32-6	1,200		0.0759	1.07		1
10146	Zirconium	7440-67-7	2.69	J	0.492	5.35		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: **SL-078-SA7-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA7-SB-7.0-8.0

LLI Sample # SW 6415793
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 12:13

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5013 SDG#: DE250-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0799 U	0.0799	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.86	0.0864	0.432		2
06126	Barium	7440-39-3	49.6	0.114	0.432		2
06127	Beryllium	7440-41-7	0.634	0.0173	0.108		2
06128	Cadmium	7440-43-9	0.0475 U	0.0475	0.108		2
06131	Chromium	7440-47-3	17.9	0.130	0.432		2
06132	Cobalt	7440-48-4	3.80	0.0216	0.108		2
06133	Copper	7440-50-8	3.69	0.0864	0.432		2
06135	Lead	7439-92-1	6.41	0.0110	0.216		2
06138	Molybdenum	7439-98-7	0.547	0.0540	0.108		2
06139	Nickel	7440-02-0	6.19	0.108	0.432		2
06141	Selenium	7782-49-2	0.110 J	0.0626	0.432		2
06142	Silver	7440-22-4	0.0176 J	0.0153	0.108		2
06145	Thallium	7440-28-0	0.202	0.0324	0.108		2
06148	Vanadium	7440-62-2	40.4	0.0238	0.108		2
06149	Zinc	7440-66-6	40.2	0.605	3.24		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0078 J	0.0073	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.1	0.86	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8 U	9.8	32.7		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.57 J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.48	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: SL-078-SA7-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA7-SB-7.0-8.0

LLI Sample # SW 6415793
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 12:13

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14420 Albemarle Point Place
Suite 210
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E5013 SDG#: DE250-13

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-078-SA7-SB-7.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11277SLD026	10/06/2011 15:13	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11270SLA026	10/07/2011 21:00	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11270SLA026	09/28/2011 09:40	Roza S Goslawska	1
00381	BNA Soil Sonication	SW-846 3550B	2	11277SLD026	10/05/2011 08:20	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11270B34A	09/27/2011 23:04	Linda C Pape	22.44
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201126525623	09/22/2011 22:08	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201126525623	09/22/2011 22:09	Lois E Hiltz	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670056A	10/01/2011 05:15	Jamie L Brillhart	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670056A	09/28/2011 10:30	Olivia Arosemena	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112670066A	09/26/2011 22:21	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112730030A	09/30/2011 23:27	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112720009A	10/01/2011 01:20	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112720035A	10/04/2011 04:15	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112720035A	09/30/2011 08:10	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112720009A	09/29/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112670066A	09/26/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112730030A	09/30/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112665708002	09/30/2011 22:36	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112665708002	09/30/2011 22:36	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112665708002	09/30/2011 22:36	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708001	10/06/2011 14:03	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112665708002	09/30/2011 22:36	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112665708002	09/30/2011 22:36	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112665708002	09/30/2011 22:36	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112665708002	09/30/2011 22:36	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112665708002	09/30/2011 22:36	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112665708002	09/30/2011 22:36	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112665708002	09/30/2011 22:36	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112665708002	09/30/2011 22:36	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112665708002	09/30/2011 22:36	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112665708002	09/30/2011 22:36	John W Yanzuk II	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-078-SA7-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA7-SB-7.0-8.0

LLI Sample # SW 6415793
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
Suite 210
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E5013 SDG#: DE250-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112661026001A	09/26/2011 12:38	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112661026001A	09/26/2011 12:38	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112661026001D	09/26/2011 12:38	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112661026001A	09/26/2011 12:38	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112661026001A	09/26/2011 12:38	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112661026001A	09/26/2011 12:38	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112661026001A	09/26/2011 12:38	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112661026001A	09/26/2011 12:38	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112661026001A	09/26/2011 12:38	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112661026001C	09/26/2011 12:38	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112661026001A	09/26/2011 12:38	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112661026001B	09/26/2011 12:38	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112661026001A	09/26/2011 12:38	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112661026001A	09/26/2011 12:38	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112661026001A	09/26/2011 12:38	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112661026001A	09/26/2011 12:38	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112665711005	09/26/2011 10:33	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112665708002	09/25/2011 19:59	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708001	10/04/2011 22:20	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708001	10/05/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112661026001	09/25/2011 20:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112665711005	09/26/2011 00:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621201B	10/01/2011 04:43	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11266373204B	10/05/2011 08:59	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243203A	10/04/2011 22:12	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621201B	09/30/2011 05:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266373204B	09/23/2011 18:00	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11277039402B	10/04/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243203A	10/03/2011 12:00	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162401B	09/28/2011 22:01	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-156-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA7-SB-4.0-5.0

LLI Sample # SW 6415794
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:39

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5014 SDG#: DE250-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: **SL-156-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-156-SA7-SB-4.0-5.0

LLI Sample # SW 6415794
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:39

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5014 SDG#: DE250-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.7	J	6.5	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		22.4
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1

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Sample Description: **SL-156-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-156-SA7-SB-4.0-5.0

LLI Sample # SW 6415794
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:39

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5014 SDG#: DE250-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	3.8		0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	5.9		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,000		6.26	20.7		1
07914	Boron	7440-42-8	0.877	J	0.373	5.18		1
01650	Calcium	7440-70-2	1,980		2.59	20.7		1
01654	Iron	7439-89-6	19,700		2.81	21.5		1
01656	Lithium	7439-93-2	25.0		0.64	2.1		1
01657	Magnesium	7439-95-4	3,910		0.455	10.4		1
06958	Manganese	7439-96-5	239		0.0373	0.518		1
10145	Phosphorus	7723-14-0	248		0.362	10.4		1
01662	Potassium	7440-09-7	2,770		11.7	51.8		1
01667	Sodium	7440-23-5	119		6.16	104		1
07968	Strontium	7440-24-6	15.2		0.0259	0.518		1
06969	Tin	7440-31-5	3.23	J	0.331	10.4		1
06970	Titanium	7440-32-6	1,240		0.0735	1.04		1
10146	Zirconium	7440-67-7	2.94	J	0.476	5.18		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: **SL-156-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-156-SA7-SB-4.0-5.0

LLI Sample # SW 6415794
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:39

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5014 SDG#: DE250-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0781 U	0.0781	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.76	0.0844	0.422		2
06126	Barium	7440-39-3	94.3	0.112	0.422		2
06127	Beryllium	7440-41-7	0.622	0.0169	0.106		2
06128	Cadmium	7440-43-9	0.0818 J	0.0464	0.106		2
06131	Chromium	7440-47-3	14.0	0.127	0.422		2
06132	Cobalt	7440-48-4	5.54	0.0211	0.106		2
06133	Copper	7440-50-8	6.53	0.0844	0.422		2
06135	Lead	7439-92-1	5.48	0.0108	0.211		2
06138	Molybdenum	7439-98-7	0.713	0.0528	0.106		2
06139	Nickel	7440-02-0	10.1	0.106	0.422		2
06141	Selenium	7782-49-2	0.150 J	0.0612	0.422		2
06142	Silver	7440-22-4	0.0219 J	0.0150	0.106		2
06145	Thallium	7440-28-0	0.275	0.0317	0.106		2
06148	Vanadium	7440-62-2	30.2	0.0232	0.106		2
06149	Zinc	7440-66-6	112	0.591	3.17		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0078 J	0.0074	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.2	0.87	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7 U	9.7	32.3		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.65	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: SL-156-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA7-SB-4.0-5.0

LLI Sample # SW 6415794
LLI Group # 1267829
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Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E5014 SDG#: DE250-14

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-156-SA7-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11277SLD026	10/06/2011 15:38	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11270SLA026	10/07/2011 21:32	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11270SLA026	09/28/2011 09:40	Roza S Goslawska	1
00381	BNA Soil Sonication	SW-846 3550B	2	11277SLD026	10/05/2011 08:20	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11270B34A	09/27/2011 23:40	Linda C Pape	22.4
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201126525623	09/22/2011 22:10	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201126525623	09/22/2011 22:10	Lois E Hiltz	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670056A	10/01/2011 05:34	Jamie L Brillhart	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670056A	09/28/2011 10:30	Olivia Arosemena	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112670066A	09/26/2011 22:36	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112730030A	09/30/2011 23:40	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112720009A	10/01/2011 01:48	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112720035A	10/04/2011 05:26	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112720035A	09/30/2011 08:10	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112720009A	09/29/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112670066A	09/26/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112730030A	09/30/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112665708002	09/30/2011 22:39	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112665708002	09/30/2011 22:39	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112665708002	09/30/2011 22:39	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708001	10/06/2011 14:15	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112665708002	09/30/2011 22:39	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112665708002	09/30/2011 22:39	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112665708002	09/30/2011 22:39	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112665708002	09/30/2011 22:39	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112665708002	09/30/2011 22:39	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112665708002	09/30/2011 22:39	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112665708002	09/30/2011 22:39	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112665708002	09/30/2011 22:39	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112665708002	09/30/2011 22:39	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112665708002	09/30/2011 22:39	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-156-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA7-SB-4.0-5.0

LLI Sample # SW 6415794
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:39

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5014 SDG#: DE250-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112661026001A	09/26/2011 12:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112661026001A	09/26/2011 12:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112661026001D	09/26/2011 12:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112661026001A	09/26/2011 12:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112661026001A	09/26/2011 12:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112661026001A	09/26/2011 12:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112661026001A	09/26/2011 12:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112661026001A	09/26/2011 12:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112661026001A	09/26/2011 12:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112661026001C	09/26/2011 12:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112661026001A	09/26/2011 12:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112661026001B	09/26/2011 12:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112661026001A	09/26/2011 12:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112661026001A	09/26/2011 12:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112661026001A	09/26/2011 12:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112661026001A	09/26/2011 12:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112665711005	09/26/2011 10:36	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112665708002	09/25/2011 19:59	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708001	10/04/2011 22:20	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708001	10/05/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112661026001	09/25/2011 20:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112665711005	09/26/2011 00:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621201B	10/01/2011 04:58	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11266373204B	10/05/2011 09:23	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243203A	10/04/2011 22:34	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621201B	09/30/2011 05:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266373204B	09/23/2011 18:00	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11277039402B	10/04/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243203A	10/03/2011 12:00	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162401B	09/28/2011 22:01	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-156-SA7-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA7-SB-7.5-8.5

LLI Sample # SW 6415795
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:43

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5015 SDG#: DE250-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-156-SA7-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-156-SA7-SB-7.5-8.5

LLI Sample # SW 6415795
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:43

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5015 SDG#: DE250-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		23.19
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-156-SA7-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA7-SB-7.5-8.5

LLI Sample # SW 6415795
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:43

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5015 SDG#: DE250-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	1.7		0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	2.7		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,800		6.45	21.3		1
07914	Boron	7440-42-8	0.384	U	0.384	5.33		1
01650	Calcium	7440-70-2	2,010		2.66	21.3		1
01654	Iron	7439-89-6	16,700		2.75	21.1		1
01656	Lithium	7439-93-2	26.2		0.66	2.1		1
01657	Magnesium	7439-95-4	3,430		0.469	10.7		1
06958	Manganese	7439-96-5	230		0.0384	0.533		1
10145	Phosphorus	7723-14-0	244		0.373	10.7		1
01662	Potassium	7440-09-7	3,190		12.0	53.3		1
01667	Sodium	7440-23-5	131		6.34	107		1
07968	Strontium	7440-24-6	9.16		0.0266	0.533		1
06969	Tin	7440-31-5	2.96	J	0.341	10.7		1
06970	Titanium	7440-32-6	1,120		0.0757	1.07		1
10146	Zirconium	7440-67-7	1.94	J	0.490	5.33		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-156-SA7-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-156-SA7-SB-7.5-8.5

LLI Sample # SW 6415795
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:43

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5015 SDG#: DE250-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0781 U	0.0781	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.43	0.0844	0.422		2
06126	Barium	7440-39-3	85.8	0.112	0.422		2
06127	Beryllium	7440-41-7	0.426	0.0169	0.106		2
06128	Cadmium	7440-43-9	0.0582 J	0.0464	0.106		2
06131	Chromium	7440-47-3	13.1	0.127	0.422		2
06132	Cobalt	7440-48-4	4.45	0.0211	0.106		2
06133	Copper	7440-50-8	5.49	0.0844	0.422		2
06135	Lead	7439-92-1	4.09	0.0108	0.211		2
06138	Molybdenum	7439-98-7	0.630	0.0528	0.106		2
06139	Nickel	7440-02-0	7.01	0.106	0.422		2
06141	Selenium	7782-49-2	0.0762 J	0.0612	0.422		2
06142	Silver	7440-22-4	0.0150 U	0.0150	0.106		2
06145	Thallium	7440-28-0	0.293	0.0317	0.106		2
06148	Vanadium	7440-62-2	25.9	0.0232	0.106		2
06149	Zinc	7440-66-6	115	0.591	3.17		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0074 U	0.0074	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.8	0.88	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8 U	9.8	32.6		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.99	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.0	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-156-SA7-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA7-SB-7.5-8.5

LLI Sample # SW 6415795
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:43

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5015 SDG#: DE250-15

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-156-SA7-SB-8.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11277SLD026	10/06/2011 16:03	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11270SLA026	10/07/2011 22:04	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11270SLA026	09/28/2011 09:40	Roza S Goslawska	1
00381	BNA Soil Sonication	SW-846 3550B	2	11277SLD026	10/05/2011 08:20	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11270B34A	09/28/2011 00:17	Linda C Pape	23.19
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201126525623	09/22/2011 22:11	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201126525623	09/22/2011 22:12	Lois E Hiltz	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670056A	10/01/2011 05:53	Jamie L Brillhart	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670056A	09/28/2011 10:30	Olivia Arosemena	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112670066A	09/26/2011 22:50	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112730030A	09/30/2011 23:53	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112720009A	10/01/2011 02:16	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112720035A	10/04/2011 04:38	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112720035A	09/30/2011 08:10	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112720009A	09/29/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112670066A	09/26/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112730030A	09/30/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112665708002	09/30/2011 22:43	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112665708002	09/30/2011 22:43	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112665708002	09/30/2011 22:43	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708001	10/06/2011 14:19	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112665708002	09/30/2011 22:43	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112665708002	09/30/2011 22:43	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112665708002	09/30/2011 22:43	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112665708002	09/30/2011 22:43	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112665708002	09/30/2011 22:43	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112665708002	09/30/2011 22:43	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112665708002	09/30/2011 22:43	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112665708002	09/30/2011 22:43	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112665708002	09/30/2011 22:43	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112665708002	09/30/2011 22:43	John W Yanzuk II	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-156-SA7-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA7-SB-7.5-8.5

LLI Sample # SW 6415795
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:43

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5015 SDG#: DE250-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112661026001A	09/26/2011 12:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112661026001A	09/26/2011 12:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112661026001D	09/26/2011 12:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112661026001A	09/26/2011 12:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112661026001A	09/26/2011 12:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112661026001A	09/26/2011 12:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112661026001A	09/26/2011 12:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112661026001A	09/26/2011 12:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112661026001A	09/26/2011 12:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112661026001C	09/26/2011 12:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112661026001A	09/26/2011 12:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112661026001B	09/26/2011 12:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112661026001A	09/26/2011 12:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112661026001A	09/26/2011 12:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112661026001A	09/26/2011 12:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112661026001A	09/26/2011 12:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112665711005	09/26/2011 10:38	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112665708002	09/25/2011 19:59	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708001	10/04/2011 22:20	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708001	10/05/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112661026001	09/25/2011 20:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112665711005	09/26/2011 00:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621201B	10/01/2011 05:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11266373204B	10/05/2011 09:46	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243203A	10/04/2011 22:48	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621201B	09/30/2011 05:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266373204B	09/23/2011 18:00	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11277039402B	10/04/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243203A	10/03/2011 12:00	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162401B	09/28/2011 22:01	Scott W Freisher	1

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Analysis Report

Sample Description: SL-158-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-158-SA7-SB-4.0-5.0

LLI Sample # SW 6415796
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:51

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5016 SDG#: DE250-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	28	J	17	350		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-158-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-158-SA7-SB-4.0-5.0

LLI Sample # SW 6415796
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:51

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5016 SDG#: DE250-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19		1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19		1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7		1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		23.81
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-158-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-158-SA7-SB-4.0-5.0

LLI Sample # SW 6415796
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:51

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5016 SDG#: DE250-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8		1
10225	PCB-1260	11096-82-5	0.52	J	0.40	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.6		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.6		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C21-C30)	n.a.	2.0		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	3.0		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.41	U	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,100		6.08	20.1		1
07914	Boron	7440-42-8	1.57	J	0.362	5.03		1
01650	Calcium	7440-70-2	1,910		2.51	20.1		1
01654	Iron	7439-89-6	19,900		2.60	19.9		1
01656	Lithium	7439-93-2	23.5		0.62	2.0		1
01657	Magnesium	7439-95-4	3,720		0.442	10.1		1
06958	Manganese	7439-96-5	233		0.0362	0.503		1
10145	Phosphorus	7723-14-0	242		0.352	10.1		1
01662	Potassium	7440-09-7	2,540		11.4	50.3		1
01667	Sodium	7440-23-5	139		5.98	101		1
07968	Strontium	7440-24-6	15.8		0.0251	0.503		1
06969	Tin	7440-31-5	2.97	J	0.322	10.1		1
06970	Titanium	7440-32-6	1,170		0.0714	1.01		1
10146	Zirconium	7440-67-7	2.74	J	0.462	5.03		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-158-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-158-SA7-SB-4.0-5.0

LLI Sample # SW 6415796
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:51

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5016 SDG#: DE250-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0744 U	0.0744	0.201		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.62	0.0804	0.402		2
06126	Barium	7440-39-3	91.7	0.107	0.402		2
06127	Beryllium	7440-41-7	0.590	0.0161	0.101		2
06128	Cadmium	7440-43-9	0.0829 J	0.0442	0.101		2
06131	Chromium	7440-47-3	14.2	0.121	0.402		2
06132	Cobalt	7440-48-4	5.62	0.0201	0.101		2
06133	Copper	7440-50-8	6.61	0.0804	0.402		2
06135	Lead	7439-92-1	5.51	0.0103	0.201		2
06138	Molybdenum	7439-98-7	0.664	0.0503	0.101		2
06139	Nickel	7440-02-0	9.19	0.101	0.402		2
06141	Selenium	7782-49-2	0.149 J	0.0583	0.402		2
06142	Silver	7440-22-4	0.0235 J	0.0143	0.101		2
06145	Thallium	7440-28-0	0.270	0.0302	0.101		2
06148	Vanadium	7440-62-2	31.7	0.0221	0.101		2
06149	Zinc	7440-66-6	90.5	0.563	3.02		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0094 J	0.0070	0.0989		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.5	0.82	1.0		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3 U	9.3	31.1		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21 U	0.21	1.0		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.30	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	3.4	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-158-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-158-SA7-SB-4.0-5.0

LLI Sample # SW 6415796
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:51

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5016 SDG#: DE250-16

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-158-SA7-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11277SLD026	10/06/2011 16:28	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11270SLA026	10/07/2011 22:35	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11270SLA026	09/28/2011 09:40	Roza S Goslawska	1
00381	BNA Soil Sonication	SW-846 3550B	2	11277SLD026	10/05/2011 08:20	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11270B34A	09/28/2011 00:53	Linda C Pape	23.81
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201126525623	09/22/2011 22:13	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201126525623	09/22/2011 22:14	Lois E Hiltz	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112670056A	10/01/2011 06:12	Jamie L Brillhart	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112670056A	09/28/2011 10:30	Olivia Arosemena	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112670066A	09/26/2011 23:05	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112730030A	10/01/2011 00:06	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112720009A	10/01/2011 03:11	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112720035A	10/04/2011 05:02	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112720035A	09/30/2011 08:10	Katheryne V Sponheimer	1
10303	Terphenyls soil prep	SW-846 3550B	1	112720009A	09/29/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112670066A	09/26/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112730030A	09/30/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112665708002	09/30/2011 22:47	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112665708002	09/30/2011 22:47	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112665708002	09/30/2011 22:47	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708001	10/06/2011 14:23	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112665708002	09/30/2011 22:47	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112665708002	09/30/2011 22:47	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112665708002	09/30/2011 22:47	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112665708002	09/30/2011 22:47	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112665708002	09/30/2011 22:47	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112665708002	09/30/2011 22:47	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112665708002	09/30/2011 22:47	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112665708002	09/30/2011 22:47	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112665708002	09/30/2011 22:47	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112665708002	09/30/2011 22:47	John W Yanzuk II	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-158-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-158-SA7-SB-4.0-5.0

LLI Sample # SW 6415796
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:51

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5016 SDG#: DE250-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112661026001A	09/26/2011 12:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112661026001A	09/26/2011 12:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112661026001D	09/26/2011 12:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112661026001A	09/26/2011 12:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112661026001A	09/26/2011 12:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112661026001A	09/26/2011 12:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112661026001A	09/26/2011 12:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112661026001A	09/26/2011 12:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112661026001A	09/26/2011 12:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112661026001C	09/26/2011 12:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112661026001A	09/26/2011 12:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112661026001B	09/26/2011 12:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112661026001A	09/26/2011 12:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112661026001A	09/26/2011 12:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112661026001A	09/26/2011 12:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112661026001A	09/26/2011 12:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112665711005	09/26/2011 10:39	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112665708002	09/25/2011 19:59	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708001	10/04/2011 22:20	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708001	10/05/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112661026001	09/25/2011 20:01	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112665711005	09/26/2011 00:35	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621201B	10/01/2011 05:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11266373204B	10/05/2011 10:09	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11276243203A	10/04/2011 23:03	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621201B	09/30/2011 05:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11266373204B	09/23/2011 18:00	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11277039402B	10/04/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11276243203A	10/03/2011 12:00	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162401B	09/28/2011 22:01	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-092111 Water**
SSFL Area IV Collocated Soil Sampling
TB-092111

LLI Sample # WW 6415797
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5017 SDG#: DE250-17TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11277B20A	10/05/2011	12:33	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11277B20A	10/05/2011	12:33	Marie D John	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **EB-SA7-SS-092111 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SS-092111

LLI Sample # WW 6415798
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5018 SDG#: DE250-18EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	2.38		0.508	1.02		1
	The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.							
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 1.47 ng/l. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and comparable data was observed. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	Aniline	62-53-3	1	U	1	6		1
04678	Benzidine	92-87-5	22	U	22	67		1
04678	Benzoic acid	65-85-0	7	U	7	17		1
04678	Benzyl alcohol	100-51-6	6	U	6	17		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	6		1
04678	2-butoxy-Ethanol	111-76-2	50	U	50	50		1
04678	Carbazole	86-74-8	1	U	1	6		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	6		1
04678	4-Chloroaniline	106-47-8	1	U	1	6		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	6		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	6		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	6		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	6		1
04678	2-Chlorophenol	95-57-8	1	U	1	6		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	6		1
04678	Dibenzofuran	132-64-9	1	U	1	6		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	6		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	6		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	6		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	6		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	6		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	11		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	11		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	6	U	6	17		1
04678	2,4-Dinitrophenol	51-28-5	11	U	11	34		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	6		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	6		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	6		1
04678	Hexachlorobenzene	118-74-1	1	U	1	6		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	6		1
04678	Hexachlorocyclopentadiene	77-47-4	6	U	6	17		1
04678	Hexachloroethane	67-72-1	1	U	1	6		1
04678	Isophorone	78-59-1	1	U	1	6		1
04678	2-Methylphenol	95-48-7	1	U	1	6		1
04678	4-Methylphenol	106-44-5	2	U	2	6		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	6		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB-SA7-SS-092111 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SS-092111

LLI Sample # WW 6415798
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5018 SDG#: DE250-18EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	3-Nitroaniline	99-09-2	1	U	1	6		1
04678	4-Nitroaniline	100-01-6	1	U	1	6		1
04678	Nitrobenzene	98-95-3	1	U	1	6		1
04678	2-Nitrophenol	88-75-5	1	U	1	6		1
04678	4-Nitrophenol	100-02-7	11	U	11	34		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	6		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	6		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	17		1
04678	Phenol	108-95-2	1	U	1	6		1
04678	2-phenoxy-Ethanol	122-99-6	50	U	50	50		1
04678	Tetralin	119-64-2	6	U	6	6		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	6		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	6		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	6		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.011	U	0.011	0.056		1
10137	Acenaphthylene	208-96-8	0.011	U	0.011	0.056		1
10137	Anthracene	120-12-7	0.011	U	0.011	0.056		1
10137	Benzo(a)anthracene	56-55-3	0.011	U	0.011	0.056		1
10137	Benzo(a)pyrene	50-32-8	0.011	U	0.011	0.056		1
10137	Benzo(b)fluoranthene	205-99-2	0.011	U	0.011	0.056		1
10137	Benzo(g,h,i)perylene	191-24-2	0.011	U	0.011	0.056		1
10137	Benzo(k)fluoranthene	207-08-9	0.011	U	0.011	0.056		1
10137	Butylbenzylphthalate	85-68-7	0.056	U	0.056	1.1		1
10137	Di-n-butylphthalate	84-74-2	0.83	J	0.056	1.1		1
10137	Chrysene	218-01-9	0.011	U	0.011	0.056		1
10137	Dibenz(a,h)anthracene	53-70-3	0.011	U	0.011	0.056		1
10137	Diethylphthalate	84-66-2	0.35	J	0.056	1.1		1
10137	Dimethylphthalate	131-11-3	0.056	U	0.056	1.1		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.16	J	0.056	1.1		1
10137	Fluoranthene	206-44-0	0.011	U	0.011	0.056		1
10137	Fluorene	86-73-7	0.011	U	0.011	0.056		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.011	U	0.011	0.056		1
10137	1-Methylnaphthalene	90-12-0	0.011	U	0.011	0.056		1
10137	2-Methylnaphthalene	91-57-6	0.011	U	0.011	0.056		1
10137	Naphthalene	91-20-3	0.057		0.034	0.056		1
10137	N-Nitrosodimethylamine	62-75-9	0.011	U	0.011	0.056		1
10137	Di-n-octylphthalate	117-84-0	0.056	U	0.056	1.1		1
10137	Phenanthrene	85-01-8	0.034	U	0.034	0.056		1
10137	Pyrene	129-00-0	0.011	U	0.011	0.056		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of .13 ug/l. The blank value was not subtracted from the analytical result.							

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Sample Description: **EB-SA7-SS-092111 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SS-092111

LLI Sample # WW 6415798
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5018 SDG#: DE250-18EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
	Reporting limits were raised due to limited sample volume.							
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.82		0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	3.2		0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10407	2,4-D	94-75-7	0.16	U	0.16	0.49		1
10407	Dalapon	75-99-0	0.25	U	0.25	1.2		1
10407	2,4-DB	94-82-6	0.30	U	0.30	0.98		1
10407	Dicamba	1918-00-9	0.079	U	0.079	0.30		1
10407	Dinoseb	88-85-7	0.098	U	0.098	0.49		1
10407	2,4-DP (Dichlorprop)	120-36-5	0.16	U	0.16	0.49		1

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Sample Description: **EB-SA7-SS-092111 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SS-092111

LLI Sample # WW 6415798
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5018 SDG#: DE250-18EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/l		ug/l	ug/l	ug/l	
10407	MCPA	94-74-6	300	U	300	980		1
10407	MCPP	93-65-2	49	U	49	200		1
10407	2,4,5-T	93-76-5	0.015	U	0.015	0.049		1
10407	2,4,5-TP	93-72-1	0.0098	U	0.0098	0.049		1
HPLC Organics	**SW-846 8315A**		ug/l		ug/l	ug/l	ug/l	
04144	20b Formaldehyde 8315A	50-00-0	10	U	10	50		1
Pesticides/PCBs	**SW-846 8081A**		ug/l		ug/l	ug/l	ug/l	
00177	Aldrin	309-00-2	0.0021	U	0.0021	0.010		1
00177	Alpha BHC	319-84-6	0.0031	U	0.0031	0.010		1
00177	Beta BHC	319-85-7	0.0030	U	0.0030	0.010		1
00177	Gamma BHC - Lindane	58-89-9	0.0021	U	0.0021	0.010		1
00177	Chlordane	57-74-9	0.12	U	0.12	0.52		1
00177	p,p-DDD	72-54-8	0.0052	U	0.0052	0.021		1
00177	p,p-DDE	72-55-9	0.0052	U	0.0052	0.021		1
00177	p,p-DDT	50-29-3	0.0052	U	0.0052	0.021		1
00177	Delta BHC	319-86-8	0.0030	U	0.0030	0.010		1
00177	Dieldrin	60-57-1	0.0055	U	0.0055	0.021		1
00177	Endosulfan I	959-98-8	0.0044	U	0.0044	0.010		1
00177	Endosulfan II	33213-65-9	0.015	U	0.015	0.021		1
00177	Endosulfan Sulfate	1031-07-8	0.0060	U	0.0060	0.021		1
00177	Endrin	72-20-8	0.0084	U	0.0084	0.021		1
00177	Endrin Aldehyde	7421-93-4	0.021	U	0.021	0.10		1
00177	Endrin Ketone	53494-70-5	0.0052	U	0.0052	0.021		1
00177	Heptachlor	76-44-8	0.0027	U	0.0027	0.010		1
00177	Heptachlor Epoxide	1024-57-3	0.0024	U	0.0024	0.010		1
00177	Methoxychlor	72-43-5	0.031	U	0.031	0.10		1
00177	Mirex	2385-85-5	0.087	U	0.087	0.26		1
00177	Toxaphene	8001-35-2	1.0	U	1.0	3.1		1
Pesticides/PCBs	**SW-846 8082**		ug/l		ug/l	ug/l	ug/l	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.52		1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.52		1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.52		1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.52		1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.52		1
10227	PCB-1232	11141-16-5	0.21	U	0.21	0.52		1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.52		1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.52		1
10227	PCB-1254	11097-69-1	0.10	U	0.10	0.52		1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.52		1
10227	PCB-1262	37324-23-5	0.21	U	0.21	0.52		1
10227	PCB-1268	11100-14-4	0.17	U	0.17	0.52		1
GC Miscellaneous	**SW-846 8015B**		ug/l		ug/l	ug/l	ug/l	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1

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Sample Description: **EB-SA7-SS-092111 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SS-092111

LLI Sample # WW 6415798
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5018 SDG#: DE250-18EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Methanol	67-56-1	200	U	200	1,000		1
	The sample was analyzed after the initial calibration with the ending calibration standard analyzed outside the 12 hour window. The sample was analyzed outside the 7 day hold time requested by the client; however within the method's 14 day hold time. The sample was not reanalyzed since the hold time had expired.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	20	U	20	200		1
08278	Ethylene glycol	107-21-1	20	U	20	200		1
08278	Propylene glycol	57-55-6	20	U	20	200		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.081	U	0.081	0.25		1
10319	o-Terphenyl	84-15-1	0.081	U	0.081	0.25		1
10319	p-Terphenyl	92-94-4	0.081	U	0.081	0.25		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.10	U	0.10	0.63		1
10365	EFH (C15-C20)	n.a.	0.10	U	0.10	0.63		1
10365	EFH (C21-C30)	n.a.	0.10	U	0.10	0.63		1
10365	EFH (C30 - C40)	n.a.	0.10	U	0.10	0.63		1
10365	EFH (C8-C11)	n.a.	0.10	U	0.10	0.63		1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0801	U	0.0801	0.200		1
08014	Boron	7440-42-8	0.0022	U	0.0022	0.0500		1
01750	Calcium	7440-70-2	0.0705	U	0.0705	0.200		1
01754	Iron	7439-89-6	0.0141	U	0.0141	0.200		1
01756	Lithium	7439-93-2	0.0076	U	0.0076	0.0200		1
01757	Magnesium	7439-95-4	0.0067	U	0.0067	0.100		1
07058	Manganese	7439-96-5	0.00044	U	0.00044	0.0050		1
10143	Phosphorus	7723-14-0	0.0047	U	0.0047	0.100		1
01762	Potassium	7440-09-7	0.0874	U	0.0874	0.500		1
01767	Sodium	7440-23-5	0.0647	U	0.0647	1.00		1
08068	Strontium	7440-24-6	0.00022	U	0.00022	0.0050		1
07069	Tin	7440-31-5	0.0043	U	0.0043	0.0200		1
07070	Titanium	7440-32-6	0.00046	U	0.00046	0.0100		1
10144	Zirconium	7440-67-7	0.0042	U	0.0042	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00042	U	0.00042	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00069	U	0.00069	0.0020		1

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Sample Description: **EB-SA7-SS-092111 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SS-092111

LLI Sample # WW 6415798
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5018 SDG#: DE250-18EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.00021 J	0.000080	0.0010		1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00027 U	0.00027	0.0020		1
06042	Silver	7440-22-4	0.000098 U	0.000098	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00018 U	0.00018	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000026 U	0.000026	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050 U	0.050	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9012B		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
08255	16b Cyanide by 9012B	57-12-5	0.0050 U	0.0050	0.010		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	17b pH by 9040B	n.a.	5.6	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11269WAA026	10/04/2011 13:16	Matthew S Woods	1

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SSFL Area IV Collocated Soil Sampling
EB-SA7-SS-092111

LLI Sample # WW 6415798
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E5018 SDG#: DE250-18EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04678	5b Semivolatiles by 8270C	SW-846 8270C	1	11267WAH026	10/04/2011 04:47	Jennifer R Riggs	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267WAI026	10/01/2011 22:49	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11267WAH026	09/27/2011 16:05	Nicholas W Shroyer	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11267WAI026	09/27/2011 16:05	Nicholas W Shroyer	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11269WAA026	09/28/2011 15:10	Wanda F Oswald	1
10131	15b Energetics by 8330A	SW-846 8330A	1	112670063A	10/04/2011 01:22	James H Place	1
04144	20b Formaldehyde 8315A	SW-846 8315A	1	112660030A	09/26/2011 16:20	James H Place	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	112670061A	09/29/2011 17:40	Michele D Hamilton	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	112670055A	09/30/2011 03:11	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	112670054A	09/30/2011 15:48	Jamie L Brillhart	1
11117	PCB Waters Extraction	SW-846 3510C	1	112670054A	09/28/2011 12:45	Denise L Trimby	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	112670055A	09/28/2011 12:45	Denise L Trimby	1
00816	Water Sample Herbicide Extract	SW-846 8151A	2	112670061A	09/28/2011 12:15	Kelli M Barto	1
01013	Formaldehyde Extraction	SW-846 8315A	1	112660030A	09/24/2011 07:00	Sally L Appleyard	1
11122	Energetics Extraction	SW-846 8330	1	112670063A	09/28/2011 17:40	Kelli M Barto	1
06624	18b Alcohols by 8015B	SW-846 8015B	1	112700016A	09/29/2011 19:04	Elizabeth J Marin	1
08278	19b Glycols by 8015B	SW-846 8015B modified	1	112710013A	09/28/2011 22:45	Tyler O Griffin	1
10319	22b Terphenyls by 8015B	SW-846 8015B	1	112670020A	09/29/2011 22:41	Heather E Williams	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112670036A	10/02/2011 03:23	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	112670036A	09/27/2011 22:30	Elaine F Stoltzfus	1
10304	Terphenyls water prep	SW-846 3510C	1	112670020A	09/27/2011 02:00	Sherry L Morrow	1
01743	Aluminum	SW-846 6010B	1	112661848004	09/26/2011 04:55	Tara L Snyder	1
08014	Boron	SW-846 6010B	1	112661848004	09/26/2011 04:55	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	112661848004	09/26/2011 04:55	Tara L Snyder	1
01754	Iron	SW-846 6010B	1	112661848004	09/26/2011 04:55	Tara L Snyder	1
01756	Lithium	SW-846 6010B	1	112661848004	09/26/2011 04:55	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	112661848004	09/27/2011 07:06	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	112661848004	09/26/2011 04:55	Tara L Snyder	1
10143	Phosphorus	SW-846 6010B	1	112661848004	09/26/2011 04:55	Tara L Snyder	1
01762	Potassium	SW-846 6010B	1	112661848004	09/26/2011 04:55	Tara L Snyder	1
01767	Sodium	SW-846 6010B	1	112661848004	09/26/2011 04:55	Tara L Snyder	1
08068	Strontium	SW-846 6010B	1	112661848004	09/26/2011 04:55	Tara L Snyder	1
07069	Tin	SW-846 6010B	1	112661848004	09/26/2011 04:55	Tara L Snyder	1
07070	Titanium	SW-846 6010B	1	112661848004	09/26/2011 04:55	Tara L Snyder	1
10144	Zirconium	SW-846 6010B	1	112661848004	09/26/2011 04:55	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	112666050006A	09/26/2011 10:29	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	112666050006A	09/26/2011 10:29	Choon Y Tian	1
06026	Barium	SW-846 6020	1	112666050006D	09/26/2011 10:29	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	112666050006A	09/26/2011 10:29	Choon Y Tian	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: EB-SA7-SS-092111 Water
SSFL Area IV Collocated Soil Sampling
EB-SA7-SS-092111

LLI Sample # WW 6415798
LLI Group # 1267829
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:00

Submitted: 09/22/2011 08:50
Reported: 11/03/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5018 SDG#: DE250-18EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06028	Cadmium	SW-846 6020	1	112666050006A	09/26/2011 10:29	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	112666050006A	09/26/2011 10:29	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	112666050006A	09/26/2011 10:29	Choon Y Tian	1
06033	Copper	SW-846 6020	1	112666050006A	09/26/2011 10:29	Choon Y Tian	1
06035	Lead	SW-846 6020	1	112666050006A	09/26/2011 10:29	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	112666050006C	09/26/2011 10:29	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	112666050006A	09/26/2011 10:29	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	112666050006B	09/26/2011 10:29	Choon Y Tian	1
06042	Silver	SW-846 6020	1	112666050006A	09/26/2011 10:29	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	112666050006A	09/26/2011 10:29	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	112666050006A	09/26/2011 10:29	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	112666050006A	09/26/2011 10:29	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	112665713006	09/24/2011 10:56	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	112661848004	09/25/2011 10:43	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	112666050006	09/25/2011 11:26	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	112665713006	09/23/2011 18:30	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11265196904C	09/23/2011 03:48	Ashley M Adams	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11265196904C	09/23/2011 03:48	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11266281101A	09/24/2011 01:35	Elyse P Brunstetter	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11265281401A	09/22/2011 11:18	Elyse P Brunstetter	1
08255	16b Cyanide by 9012B	SW-846 9012B	1	11273117101B	10/03/2011 07:57	K Robert Caulfeild-James	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11273117101B	09/30/2011 10:00	Nancy J Shoop	1
00200	17b pH by 9040B	SW-846 9040B	1	11270020001A	09/27/2011 20:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267829
Reported: 11/03/11 at 09:54 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11267WAH026	Sample number(s): 6415798									
Aniline	1	U	1.	5	ug/l	75	83	38-116	10	30
Benzidine	20	U	20.	60	ug/l	64	77	34-117	18	30
Benzoic acid	6	U	6.	15	ug/l	31	22	10-69	31*	30
Benzyl alcohol	5	U	5.	15	ug/l	82	84	66-97	2	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	96	104	75-115	8	30
2-butoxy-Ethanol	50	U	50.	50	ug/l					
Carbazole	1	U	1.	5	ug/l	102	111	75-120	9	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	96	105	70-123	8	30
4-Chloroaniline	1	U	1.	5	ug/l	76	91	24-128	18	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	95	103	74-124	9	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	98	103	77-108	5	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	87	94	62-127	8	30
2-Chloronaphthalene	2	U	2.	5	ug/l	80	88	54-132	10	30
2-Chlorophenol	1	U	1.	5	ug/l	101	101	71-114	0	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	92	98	77-114	6	30
Dibenzofuran	1	U	1.	5	ug/l	95	102	75-117	8	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	91	96	55-118	5	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	93	100	61-111	7	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	92	99	53-119	8	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	63	80	37-117	23	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	97	105	77-117	8	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	98	104	72-110	6	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	93	104	70-130	11	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	98	108	65-126	10	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	86	90	52-131	4	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	96	107	76-119	11	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	100	111	76-118	10	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	101	108	68-127	7	30
Hexachlorobenzene	1	U	1.	5	ug/l	95	101	75-119	6	30
Hexachlorobutadiene	1	U	1.	5	ug/l	86	100	57-124	15	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	73	83	36-118	13	30
Hexachloroethane	1	U	1.	5	ug/l	93	102	52-113	9	30
Isophorone	1	U	1.	5	ug/l	97	106	74-117	8	30
2-Methylphenol	1	U	1.	5	ug/l	86	88	58-110	3	30
4-Methylphenol	2	U	2.	5	ug/l	79	81	49-108	3	30
2-Nitroaniline	1	U	1.	5	ug/l	95	102	75-120	8	30
3-Nitroaniline	1	U	1.	5	ug/l	94	100	74-113	6	30
4-Nitroaniline	1	U	1.	5	ug/l	81	88	59-100	8	30
Nitrobenzene	1	U	1.	5	ug/l	98	111*	75-109	12	30
2-Nitrophenol	1	U	1.	5	ug/l	107	115	76-118	7	30
4-Nitrophenol	10	U	10.	30	ug/l	42	45	16-78	7	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	87	94	69-110	8	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	99	108	67-136	8	30
Pentachlorophenol	3	U	3.	15	ug/l	93	103	53-110	10	30
Phenol	1	U	1.	5	ug/l	47	48	21-67	2	30

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267829
Reported: 11/03/11 at 09:54 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-phenoxy-Ethanol	50	U	50.	50	ug/l					
Tetralin	5	U	5.	5	ug/l					
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	91	104	71-112	14	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	98	102	79-107	4	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	104	111	76-120	6	30
Batch number: 11267WAI026	Sample number(s): 6415798									
Acenaphthene	0.010	U	0.010	0.050	ug/l	96	101	74-109	5	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	93	101	70-110	8	30
Anthracene	0.010	U	0.010	0.050	ug/l	97	105	66-111	8	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	95	103	72-114	8	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	94	101	60-127	7	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	110	114	58-151	4	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	95	101	57-131	6	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	99	111	59-130	11	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	54	61	40-138	11	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	95	103	56-148	8	30
Chrysene	0.010	U	0.010	0.050	ug/l	95	102	76-116	8	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	102	109	55-134	7	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	85	89	37-148	5	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	54	53	40-119	2	30
Bis(2-Ethylhexyl)phthalate	0.13	J	0.050	1.0	ug/l	93	104	57-154	11	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	102	109	75-116	7	30
Fluorene	0.010	U	0.010	0.050	ug/l	101	108	75-114	7	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	100	106	53-158	6	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	94	98	71-117	5	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	91	95	75-115	4	30
Naphthalene	0.030	U	0.030	0.050	ug/l	96	100	72-109	3	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	66	73	36-89	10	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	87	96	57-145	9	30
Phenanthrene	0.030	U	0.030	0.050	ug/l	97	103	76-111	6	30
Pyrene	0.010	U	0.010	0.050	ug/l	89	95	69-118	6	30
Batch number: 11269WAA026	Sample number(s): 6415798									
N-Nitrosodimethylamine	1.47		0.500	1.00	ng/l	95	112	70-130	16	30
Batch number: 11270SLA026	Sample number(s): 6415776-6415781,6415785-6415796									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	103		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	99		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	104		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	106		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	104		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	112		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	110		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	109		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	112		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	113		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	104		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	111		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	107		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	114		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	119		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	106		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	107		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	110		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	95		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	97		67-120		

*- Outside of specification

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(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267829
Reported: 11/03/11 at 09:54 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	97		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	112		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	100		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	102		72-119		
Batch number: 11272SLB026	Sample number(s): 6415790-6415791									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	110		70-130		
Batch number: 11277SLD026	Sample number(s): 6415776-6415781,6415785-6415796									
Acenaphthene	17	U	17.	170	ug/kg	104		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	112		75-122		
Aniline	170 U		170.	500	ug/kg	85		20-115		
Anthracene	17	U	17.	170	ug/kg	114*		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	55		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	104		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	114		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	114		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	102		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	105		67-125		
Benzoic acid	170 U		170.	500	ug/kg	91		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	103		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	104		73-114		
Butylbenzylphthalate	17	U	17.	170	ug/kg	107		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	110		79-112		
Carbazole	17	U	17.	170	ug/kg	111		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	110		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	57		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	102		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	99		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	98		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	81		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	110		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	102		74-115		
Chrysene	17	U	17.	170	ug/kg	96		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	105		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	104		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	95		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	94		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	93		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	59		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	110		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	106		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	107		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	115		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	105		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	48		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	26		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	110		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	113		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	111		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	105		75-117		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267829
Reported: 11/03/11 at 09:54 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluoranthene	17	U	17.	170	ug/kg	116		78-116		
Fluorene	17	U	17.	170	ug/kg	109		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	101		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	96		65-117		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	101		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	93		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	107		64-119		
Isophorone	17	U	17.	170	ug/kg	105		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	101		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	104		69-109		
2-Methylphenol	33	U	33.	170	ug/kg	106		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	111		66-117		
Naphthalene	17	U	17.	170	ug/kg	101		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	115		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	109		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	81		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	105		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	110		76-111		
4-Nitrophenol	170 U		170.	500	ug/kg	97		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	97		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	95		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	113		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	132		62-137		
Pentachlorophenol	170 U		170.	500	ug/kg	72		51-117		
Phenanthrene	17	U	17.	170	ug/kg	108		77-113		
Phenol	17	U	17.	170	ug/kg	108		58-112		
Pyrene	17	U	17.	170	ug/kg	106		75-115		
Tetralin	170 U		170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	97		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	108*		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	112*		78-111		
Batch number: 11270B34A	Sample number(s): 6415790-6415796									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	72	72	67-119	1	30
Batch number: 11277B20A	Sample number(s): 6415797									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	100	75-135	0	30
Batch number: 112670063A	Sample number(s): 6415798									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	100	100	80-120	0	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	97	97	80-120	0	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	90	87	50-122	4	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	90	87	50-122	4	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	100	100	72-117	0	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	95	95	80-120	0	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
HMX	0.65	U	0.65	2.0	ug/l	91	89	65-125	2	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	95	94	75-121	1	30
Nitroglycerin	5.2	U	5.2	15	ug/l	92	92	80-120	0	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	94	95	74-120	1	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	100	99	69-107	1	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	96	96	80-120	0	30
PETN	6.0	U	6.0	18	ug/l	100	100	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	87	86	70-125	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267829
Reported: 11/03/11 at 09:54 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Tetryl	0.40	U	0.40	0.60	ug/l	74	78	72-141	5	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	83	83	53-129	0	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	99	99	76-109	0	30
Batch number: 112690017A	Sample number(s): 6415790-6415791									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	104		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	101		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	76	85	54-134	12	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	75	85	54-134	12	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	106		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	96		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	103		80-120		
HMX	100 U		100.	300	ug/kg	89		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	97		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	84		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	98		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	104		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	97		80-120		
PETN	800 U		800.	2,400	ug/kg	99		80-120		
RDX	50	U	50.	120	ug/kg	101		75-131		
Tetryl	61	U	61.	120	ug/kg	107		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	103		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	103		80-120		
Batch number: 112660030A	Sample number(s): 6415798									
20b Formaldehyde 8315A	10	U	10.	50	ug/l	96	96	69-130	0	30
Batch number: 112670064A	Sample number(s): 6415790-6415791									
20a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	98		80-126		
Batch number: 112670061A	Sample number(s): 6415798									
2,4-D	0.16	U	0.16	0.50	ug/l	92	96	73-157	4	30
Dalapon	0.25	U	0.25	1.3	ug/l	90	94	40-100	3	30
2,4-DB	0.30	U	0.30	1.0	ug/l	88	92	65-130	4	30
Dicamba	0.080	U	0.080	0.30	ug/l	96	100	68-135	4	30
Dinoseb	0.10	U	0.10	0.50	ug/l	72	74	32-91	3	30
2,4-DP (Dichlorprop)	0.16	U	0.16	0.50	ug/l	116	120	76-170	3	30
MCPA	300 U		300.	1,000	ug/l	92	94	65-128	2	30
MCPP	50	U	50.	200	ug/l	116	116	67-137	0	30
2,4,5-T	0.015	U	0.015	0.050	ug/l	76	76	63-147	0	30
2,4,5-TP	0.010	U	0.010	0.050	ug/l	92	96	63-134	4	30
Batch number: 112690021A	Sample number(s): 6415776-6415781,6415783-6415789									
2,4-D	1.2	U	1.2	3.6	ug/kg	96		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	26		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	91		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	89		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	8*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	105		62-170		
MCPA	76	U	76.	250	ug/kg	74		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	72		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	84		73-143		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267829
Reported: 11/03/11 at 09:54 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	84		68-114		
Batch number: 112690003A	Sample number(s): 6415777-6415781,6415785-6415786,6415788-6415790									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	97		85-115		
Batch number: 112670054A	Sample number(s): 6415798									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	68	68	35-84	0	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	98	92	51-128	6	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	102	98	56-135	4	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 112670055A	Sample number(s): 6415798									
Aldrin	0.0020	U	0.0020	0.010	ug/l	93	97	54-159	4	30
Alpha BHC	0.0030	U	0.0030	0.010	ug/l	100	110	59-146	10	30
Beta BHC	0.0029	U	0.0029	0.010	ug/l	113	124	73-147	9	30
Gamma BHC - Lindane	0.0020	U	0.0020	0.010	ug/l	100	120	68-128	18	30
Chlordane	0.12	U	0.12	0.50	ug/l					
p,p-DDD	0.0050	U	0.0050	0.020	ug/l	120	125	71-139	4	30
p,p-DDE	0.0050	U	0.0050	0.020	ug/l	111	116	66-130	5	30
p,p-DDT	0.0050	U	0.0050	0.020	ug/l	110	114	53-126	4	30
Delta BHC	0.0029	U	0.0029	0.010	ug/l	113	124	76-148	9	30
Dieldrin	0.0053	U	0.0053	0.020	ug/l	105	110	76-132	5	30
Endosulfan I	0.0043	U	0.0043	0.010	ug/l	88	93	68-128	6	30
Endosulfan II	0.015	U	0.015	0.020	ug/l	100	105	59-144	5	30
Endosulfan Sulfate	0.0058	U	0.0058	0.020	ug/l	100	110	71-142	10	30
Endrin	0.0081	U	0.0081	0.020	ug/l	55	85	52-132	43*	30
Endrin Aldehyde	0.020	U	0.020	0.10	ug/l	105	105	68-139	0	20
Endrin Ketone	0.0050	U	0.0050	0.020	ug/l	120	115	69-146	4	30
Heptachlor	0.0026	U	0.0026	0.010	ug/l	97	100	57-126	3	30
Heptachlor Epoxide	0.0023	U	0.0023	0.010	ug/l	102	112	73-156	10	30
Methoxychlor	0.030	U	0.030	0.10	ug/l	100	110	52-133	10	30
Mirex	0.085	U	0.085	0.25	ug/l					
Toxaphene	1.0	U	1.0	3.0	ug/l					
Batch number: 112670056A	Sample number(s): 6415777,6415783-6415796									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	84	80	36-106	6	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	103		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	113		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112690019A	Sample number(s): 6415776-6415781,6415783-6415789									
Aldrin	0.066	U	0.066	0.17	ug/kg	67		44-135		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267829
Reported: 11/03/11 at 09:54 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Alpha BHC	0.034	U	0.034	0.17	ug/kg	65		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	88		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	71		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	96		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	92		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	96		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	88		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	91		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	62		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	85		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	109		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	90		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	88		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	102		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	68		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	85		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	102		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 112770010A	Sample number(s): 6415776,6415778-6415781									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	64	69	36-106	7	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	82		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	98		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112670066A	Sample number(s): 6415777-6415781,6415783-6415786,6415788-6415796									
Ethanol	100	U	100.	500	ug/kg	83		71-129		
Isopropanol	100	U	100.	500	ug/kg	85		75-125		
Methanol	100	U	100.	500	ug/kg	84		68-129		
Batch number: 112700016A	Sample number(s): 6415798									
Ethanol	200	U	200.	1,000	ug/l	100		78-116		
Isopropanol	200	U	200.	1,000	ug/l	100		75-125		
Methanol	240	J	200.	1,000	ug/l	108		76-122		
Batch number: 112710013A	Sample number(s): 6415798									
Diethylene glycol	20	U	20.	200	mg/l	105	115	67-126	9	20
Ethylene glycol	20	U	20.	200	mg/l	95	84	78-136	12	20
Propylene glycol	20	U	20.	200	mg/l	90	80	65-132	12	20
Batch number: 112730030A	Sample number(s): 6415777-6415781,6415785-6415786,6415788-6415796									
Diethylene glycol	5.0	U	5.0	10	mg/kg	94		75-125		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267829
Reported: 11/03/11 at 09:54 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Ethylene glycol	5.0	U	5.0	10	mg/kg	97		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	86		67-131		
Batch number: 112670020A	Sample number(s): 6415798									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	92	92	61-108	0	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	92	92	75-125	0	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	92	92	63-110	0	20
Batch number: 112670036A	Sample number(s): 6415798									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	90	98	63-121	9	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	96	99	72-124	3	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	72	92	64-123	24	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	80	100	73-124	22	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	82	88	43-107	7	30
Batch number: 112720009A	Sample number(s): 6415777-6415781,6415783-6415786,6415788-6415796									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	84		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	85		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	85		69-109		
Batch number: 112720035A	Sample number(s): 6415777-6415781,6415783-6415786,6415788-6415796									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	105		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	109		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	108		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	104		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	95		49-107		
Batch number: 112661026001A	Sample number(s): 6415776-6415782,6415785-6415796									
Antimony	0.0740	U	0.0740	0.200	mg/kg	99		10-224		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	105		78-122		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	103		80-120		
Cadmium	0.0440	U	0.0440	0.100	mg/kg	106		81-119		
Chromium	0.120	U	0.120	0.400	mg/kg	114		77-123		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	103		80-119		
Copper	0.0800	U	0.0800	0.400	mg/kg	106		78-122		
Lead	0.0136	J	0.0102	0.200	mg/kg	105		77-123		
Nickel	0.100	U	0.100	0.400	mg/kg	110		80-120		
Silver	0.0142	U	0.0142	0.100	mg/kg	104		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	106		75-124		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	119		76-124		
Zinc	0.560	U	0.560	3.00	mg/kg	108		79-121		
Batch number: 112661026001B	Sample number(s): 6415776-6415782,6415785-6415796									
Selenium	0.0580	U	0.0580	0.400	mg/kg	107		77-123		
Batch number: 112661026001C	Sample number(s): 6415776-6415782,6415785-6415796									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	105		76-123		
Batch number: 112661026001D	Sample number(s): 6415776-6415782,6415785-6415796									
Barium	0.106	U	0.106	0.400	mg/kg	106		80-120		
Batch number: 112661848004	Sample number(s): 6415798									
Aluminum	0.0801	U	0.0801	0.200	mg/l	102	106	90-112	4	20
Boron	0.0022	U	0.0022	0.0500	mg/l	95	93	89-110	2	20
Calcium	0.0705	U	0.0705	0.200	mg/l	103	105	90-112	3	20
Iron	0.0141	U	0.0141	0.200	mg/l	107	110	90-112	3	20
Lithium	0.0076	U	0.0076	0.0200	mg/l	101	104	80-120	3	20
Magnesium	0.0067	U	0.0067	0.100	mg/l	102	102	89-110	0	20

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Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Manganese	0.00044 U	0.00044	0.0050	mg/l	102	100	90-110	2	20
Phosphorus	0.0047 U	0.0047	0.100	mg/l	100	100	80-120	0	20
Potassium	0.0874 U	0.0874	0.500	mg/l	100	103	85-115	3	20
Sodium	0.0647 U	0.0647	1.00	mg/l	99	102	87-114	3	20
Strontium	0.00022 U	0.00022	0.0050	mg/l	101	101	90-110	0	20
Tin	0.0043 U	0.0043	0.0200	mg/l	98	98	90-110	0	20
Titanium	0.00046 U	0.00046	0.0100	mg/l	100	99	90-113	2	20
Zirconium	0.0042 U	0.0042	0.0500	mg/l	102	105	80-120	3	20
Batch number: 112665708002	Sample number(s): 6415776-6415782,6415785-6415796								
Aluminum	6.05 U	6.05	20.0	mg/kg	147		42-158		
Boron	0.360 U	0.360	5.00	mg/kg	98		66-134		
Calcium	7.08 J	2.50	20.0	mg/kg	105		79-121		
Lithium	0.62 U	0.62	2.0	mg/kg	101		80-120		
Magnesium	0.811 J	0.440	10.0	mg/kg	125		64-136		
Manganese	0.0490 J	0.0360	0.500	mg/kg	97		78-122		
Phosphorus	1.23 J	0.350	10.0	mg/kg	105		80-120		
Potassium	11.3 U	11.3	50.0	mg/kg	119		69-131		
Sodium	5.95 U	5.95	100	mg/kg	114		71-129		
Strontium	0.0390 J	0.0250	0.500	mg/kg	99		81-119		
Tin	1.55 J	0.320	10.0	mg/kg	98		74-126		
Titanium	0.0710 U	0.0710	1.00	mg/kg	98		80-120		
Zirconium	0.460 U	0.460	5.00	mg/kg	105		80-120		
Batch number: 112665711005	Sample number(s): 6415776-6415782,6415785-6415796								
Mercury	0.0068 U	0.0068	0.0965	mg/kg	107		72-128		
Batch number: 112665713006	Sample number(s): 6415798								
Mercury	0.000026 U	0.00002 6	0.00020	mg/l	91	90	80-120	2	20
Batch number: 112666050006A	Sample number(s): 6415798								
Antimony	0.00042 U	0.00042	0.0010	mg/l	102	106	87-110	4	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	104	99	86-111	5	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	103	104	90-113	1	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	106	102	90-114	3	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	101	103	90-118	2	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	103	103	87-113	1	20
Copper	0.00038 U	0.00038	0.0020	mg/l	100	102	90-113	2	20
Lead	0.000080 U	0.00008 0	0.0010	mg/l	103	102	90-115	1	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	105	106	90-113	1	20
Silver	0.000098 U	0.00009 8	0.00050	mg/l	103	103	90-115	0	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	106	103	89-116	3	20
Vanadium	0.00018 U	0.00018	0.00050	mg/l	102	104	89-116	2	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	102	106	90-116	4	20
Batch number: 112666050006B	Sample number(s): 6415798								
Selenium	0.00027 U	0.00027	0.0020	mg/l	102	105	85-114	3	20
Batch number: 112666050006C	Sample number(s): 6415798								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	101	103	89-115	2	20
Batch number: 112666050006D	Sample number(s): 6415798								
Barium	0.00069 U	0.00069	0.0020	mg/l	100	101	88-113	1	20
Batch number: 112785708001	Sample number(s): 6415776-6415782,6415785-6415796								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267829
Reported: 11/03/11 at 09:54 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Iron	2.61	U	2.61	20.0	mg/kg	105		57-110		
Batch number: 11265196904C	Sample number(s): 6415798									
11b Anions by 300.0 - Fluoride	0.080	U	0.080	0.10	mg/l	91	92	90-110	1	20
11b Anions by 300.0 - Nitrate	0.050	U	0.050	0.10	mg/l	92	93	90-110	1	20
Batch number: 11265281401A	Sample number(s): 6415798									
3b Cr VI by EPA 7199	5.0	U	5.0	10.0	ug/l	102	102	90-110	0	20
Batch number: 11266281101A	Sample number(s): 6415798									
7b Perchlorate EPA 314.0	0.70	U	0.70	2.0	ug/l	112	100	85-115	11	20
Batch number: 11266373204A	Sample number(s): 6415776-6415780,6415782,6415785-6415787,6415789-6415791									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	108		85-115		
Batch number: 11266373204B	Sample number(s): 6415788,6415792-6415796									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	108		85-115		
Batch number: 11273117101B	Sample number(s): 6415798									
16b Cyanide by 9012B	0.0050	U	0.0050	0.010	mg/l	93	92	90-110	2	20
Batch number: 11273196601A	Sample number(s): 6415790									
11a Anions by 300.0 - Nitrate	0.050	U	0.050	1.5	mg/kg	101		90-110		
Batch number: 11273196601B	Sample number(s): 6415791									
11a Anions by 300.0 - Nitrate	0.050	U	0.050	1.5	mg/kg	101		90-110		
Batch number: 11273621201A	Sample number(s): 6415776-6415780,6415782,6415785-6415790									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	99		90-110		
Batch number: 11273621201B	Sample number(s): 6415791-6415796									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	99		90-110		
Batch number: 11276243203A	Sample number(s): 6415776-6415780,6415782,6415785-6415796									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	89		80-120		
Batch number: 11277102201A	Sample number(s): 6415777-6415780,6415782,6415785-6415786,6415788-6415791									
16a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	107		80-120		
Batch number: 11270020001A	Sample number(s): 6415798									
17b pH by 9040B						100	100	90-110	0	3
Batch number: 11277039402A	Sample number(s): 6415776-6415779,6415782,6415785-6415789									
17a pH by 9045C						100		95-105		
Batch number: 11277039402B	Sample number(s): 6415790-6415796									
17a pH by 9045C						100		95-105		
Batch number: 11271162401B	Sample number(s): 6415776-6415783,6415785-6415789,6415792-6415796									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Batch number: 11284162402A	Sample number(s): 6415790-6415791									
Moisture Content by 160.3						100		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267829
Reported: 11/03/11 at 09:54 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11270SLA026	Sample number(s): 6415776-6415781,6415785-6415796 UNSPK: 6415779								
Acenaphthene	113*	103	63-105	10	30				
Acenaphthylene	112	91	67-114	22	30				
Anthracene	127*	122*	73-115	5	30				
Benzo(a)anthracene	122	112	59-128	5	30				
Benzo(a)pyrene	168*	143*	58-142	10	30				
Benzo(b)fluoranthene	402*	248*	54-163	24	30				
Benzo(g,h,i)perylene	44	9*	33-141	36*	30				
Benzo(k)fluoranthene	215*	197*	57-153	7	30				
Butylbenzylphthalate	0*	881*	57-173	200*	30				
Di-n-butylphthalate	0*	0*	65-148	0	30				
Chrysene	219*	118	67-123	20	30				
Dibenz(a,h)anthracene	86	74	22-133	16	30				
Diethylphthalate	0*	0*	70-136	0	30				
Dimethylphthalate	0*	0*	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	508 (2)	-433 (2)	39-167	90*	30				
Fluoranthene	350*	131	51-149	42*	30				
Fluorene	117	111	66-122	6	30				
Indeno(1,2,3-cd)pyrene	55	39	21-143	18	30				
1-Methylnaphthalene	108	94	72-123	15	30				
2-Methylnaphthalene	107*	99	64-103	9	30				
Naphthalene	106*	100	61-102	6	30				
N-Nitrosodimethylamine	94	84	48-113	11	30				
Di-n-octylphthalate	407*	420*	40-192	3	30				
Phenanthrene	264*	130*	62-122	37*	30				
Pyrene	322*	146*	51-131	38*	30				
Batch number: 11272SLB026	Sample number(s): 6415790-6415791 UNSPK: 6415790								
N-Nitrosodimethylamine	113	98	70-130	16	30				
Batch number: 11277SLD026	Sample number(s): 6415776-6415781,6415785-6415796 UNSPK: 6415779								
Acenaphthene	97	102	75-115	6	30				
Acenaphthylene	101	111*	81-110	10	30				
Aniline	0*	0*	18-116	0	30				
Anthracene	102	103	75-115	2	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	95	100	65-122	6	30				
Benzo(a)pyrene	112	105	57-126	5	30				
Benzo(b)fluoranthene	119	122	59-125	2	30				
Benzo(g,h,i)perylene	102	115	59-127	13	30				
Benzo(k)fluoranthene	91	113	56-132	22	30				
Benzoic acid	0*	0*	10-173	0	30				
Benzyl alcohol	0*	0*	67-115	0	30				
4-Bromophenyl-phenylether	95	100	67-129	6	30				
Butylbenzylphthalate	291*	119	73-134	84*	30				
Di-n-butylphthalate	97	98	67-123	1	30				
Carbazole	95	99	64-120	6	30				
4-Chloro-3-methylphenol	94	97	62-122	3	30				
4-Chloroaniline	0*	0*	13-107	0	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267829
Reported: 11/03/11 at 09:54 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
bis(2-Chloroethoxy)methane	98	100	75-104	3	30				
bis(2-Chloroethyl)ether	94	104	60-116	10	30				
bis(2-Chloroisopropyl)ether	103	106	55-142	4	30				
2-Chloronaphthalene	70	74	50-141	6	30				
2-Chlorophenol	101	108	73-121	7	30				
4-Chlorophenyl-phenylether	99	101	80-109	3	30				
Chrysene	96	108	62-128	13	30				
Dibenz(a,h)anthracene	97	108	65-125	11	30				
Dibenzofuran	97	102	71-112	6	30				
1,2-Dichlorobenzene	90	95	66-108	6	30				
1,3-Dichlorobenzene	91	93	63-109	3	30				
1,4-Dichlorobenzene	91	95	58-108	4	30				
3,3'-Dichlorobenzidine	0*	0*	28-109	0	30				
2,4-Dichlorophenol	87	96	66-123	10	30				
Diethylphthalate	95	99	66-118	5	30				
2,4-Dimethylphenol	91	99	68-118	9	30				
3,5-Dimethylphenol	95	101	71-127	7	30				
Dimethylphthalate	94	98	64-118	4	30				
4,6-Dinitro-2-methylphenol	293*	286*	11-126	2	30				
2,4-Dinitrophenol	0*	276*	20-143	200*	30				
2,4-Dinitrotoluene	76	79	56-129	5	30				
2,6-Dinitrotoluene	86	86	69-123	1	30				
1,2-Diphenylhydrazine	90	95	71-129	6	30				
bis(2-Ethylhexyl)phthalate	122	117	63-122	4	30				
Fluoranthene	105	107	73-112	3	30				
Fluorene	99	105	63-121	7	30				
Hexachlorobenzene	89	97	77-114	9	30				
Hexachlorobutadiene	0*	0*	62-120	0	30				
Hexachlorocyclopentadiene	0*	0*	10-153	0	30				
Hexachloroethane	88	95	57-109	9	30				
Indeno(1,2,3-cd)pyrene	102	114	61-126	12	30				
Isophorone	93	96	73-102	3	30				
1-Methylnaphthalene	91	93	64-122	3	30				
2-Methylnaphthalene	92	95	76-114	4	30				
2-Methylphenol	99	104	75-111	5	30				
4-Methylphenol	100	107	59-123	7	30				
Naphthalene	95	98	72-116	4	30				
2-Nitroaniline	90	97	67-125	9	30				
3-Nitroaniline	70	74	59-122	7	30				
4-Nitroaniline	0*	0*	41-109	0	30				
Nitrobenzene	96	97	57-125	2	30				
2-Nitrophenol	90	93	56-127	4	30				
4-Nitrophenol	0*	0*	37-129	0	30				
N-Nitroso-di-n-propylamine	89	103	60-116	15	30				
N-Nitrosodimethylamine	99	100	47-116	2	30				
N-Nitrosodiphenylamine	98	100	71-122	3	30				
Di-n-octylphthalate	117	114	56-126	2	30				
Pentachlorophenol	0*	0*	28-127	0	30				
Phenanthrene	98	104	65-125	7	30				
Phenol	99	98	58-126	0	30				
Pyrene	99	103	74-126	5	30				
1,2,4-Trichlorobenzene	91	93	72-115	2	30				
2,4,5-Trichlorophenol	95	94	58-129	0	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267829
Reported: 11/03/11 at 09:54 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4,6-Trichlorophenol	93	102	56-134	10	30				
Batch number: 112690017A	Sample number(s): 6415790-6415791 UNSPK: P414168								
4-Amino-2,6-Dinitrotoluene	107	113	80-127	6	50				
2-Amino-4,6-Dinitrotoluene	105	114	80-137	7	50				
1,3-Dinitrobenzene	109	117	38-166	7	50				
2,4-Dinitrotoluene	100	108	80-131	8	50				
2,6-Dinitrotoluene	104	111	80-127	6	50				
HMX	91	97	63-128	6	50				
Nitrobenzene	101	106	80-125	5	50				
Nitroglycerin	98	104	80-120	7	50				
2-Nitrotoluene	101	108	80-122	7	50				
3-Nitrotoluene	107	115	72-119	7	50				
4-Nitrotoluene	100	107	80-125	7	50				
PETN	106	114	80-121	7	50				
RDX	98	106	75-129	8	50				
Tetryl	90	103	55-174	14	50				
1,3,5-Trinitrobenzene	101	109	82-126	8	50				
2,4,6-Trinitrotoluene	105	113	82-130	7	50				
Batch number: 112670064A	Sample number(s): 6415790-6415791 UNSPK: P419519								
20a Formaldehyde 8315A	105	96	80-120	9	50				
Batch number: 112690021A	Sample number(s): 6415776-6415781,6415783-6415789 UNSPK: 6415779								
2,4-D	0*	0*	17-180	0	35				
Dalapon	0*	0*	10-125	0	50				
2,4-DB	23	43	10-201	61*	50				
Dicamba	0*	0*	10-190	0	50				
Dinoseb	0*	0*	10-46	0	35				
2,4-DP (Dichlorprop)	20*	30*	33-178	42	50				
MCPA	0*	0*	10-213	0	50				
MCPP (Mecoprop)	0*	34	10-184	200*	50				
2,4,5-T	-65*	-36*	10-156	100*	35				
2,4,5-TP	10*	34	24-141	74*	35				
Batch number: 112690003A	Sample number(s): 6415777-6415781,6415785-6415786,6415788-6415790 UNSPK: 6415779								
6a Perchlorate EPA 6850	106	110	80-120	4	20				
Batch number: 112670056A	Sample number(s): 6415777,6415783-6415796 UNSPK: P415779								
PCB-1016	55	62	29-146	12	50				
PCB-1260	34*	56	39-149	29	50				
Batch number: 112690019A	Sample number(s): 6415776-6415781,6415783-6415789 UNSPK: 6415779								
Aldrin	58	58	16-126	0	50				
Alpha BHC	59	29	10-129	67*	50				
Beta BHC	63	0*	14-147	200*	50				
Gamma BHC - Lindane	79	50	10-140	45	50				
p,p-DDD	166*	212*	16-163	25	50				
p,p-DDE	-25*	-1*	18-161	8	50				
p,p-DDT	-243 (2)	-389 (2)	10-176	14	50				
Delta BHC	72	103	23-140	36	50				
Dieldrin	87	132	19-154	42	50				

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Quality Control Summary

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Reported: 11/03/11 at 09:54 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Endosulfan I	19	26	16-137	32	50				
Endosulfan II	125	154	28-154	21	50				
Endosulfan Sulfate	175*	0*	21-160	200*	50				
Endrin	0*	0*	11-149	0	50				
Endrin Aldehyde	0*	185*	10-148	200*	35				
Endrin Ketone	127	0*	22-165	200*	50				
Heptachlor	53	76	13-126	36	50				
Heptachlor Epoxide	88	100	13-157	13	50				
Methoxychlor	52	57	32-147	10	50				
Batch number: 112770010A	Sample number(s): 6415776,6415778-6415781 UNSPK: 6415779								
PCB-1016	89	78	29-146	13	50				
PCB-1260	85	68	39-149	20	50				
Batch number: 112670066A	Sample number(s): 6415777-6415781,6415783-6415786,6415788-6415796 UNSPK: 6415779								
Ethanol	84	53	48-130	46*	20				
Isopropanol	95	52	12-149	59*	20				
Methanol	88	61	43-138	36*	20				
Batch number: 112700016A	Sample number(s): 6415798 UNSPK: P413442								
Ethanol	104	104	62-145	0	20				
Isopropanol	100	96	73-131	4	20				
Methanol	104	108	52-159	4	20				
Batch number: 112730030A	Sample number(s): 6415777-6415781,6415785-6415786,6415788-6415796 UNSPK: 6415779								
Diethylene glycol	5*	7*	59-109	21*	20				
Ethylene glycol	30*	31*	63-107	3	20				
Propylene glycol	42*	42*	63-107	1	20				
Batch number: 112720009A	Sample number(s): 6415777-6415781,6415783-6415786,6415788-6415796 UNSPK: 6415779								
m-Terphenyl	92	93	75-125	1	20				
o-Terphenyl	90	92	75-125	2	20				
p-Terphenyl	91	93	75-125	2	20				
Batch number: 112720035A	Sample number(s): 6415777-6415781,6415783-6415786,6415788-6415796 UNSPK: 6415779								
EFH (C12-C14)	0*	0*	49-123	0	20				
EFH (C15-C20)	0*	0*	49-123	0	20				
EFH (C21-C30)	-20557 (2)	-9238 (2)	49-123	29*	20				
EFH (C30 - C40)	-58067 (2)	-1494 (2)	49-123	49*	20				
EFH (C8-C11)	0*	0*	49-123	0	20				
Batch number: 112661026001A	Sample number(s): 6415776-6415782,6415785-6415796 UNSPK: 6415779 BKG: 6415779								
Antimony	44*	54*	75-125	14	20	0.254	0.217	16 (1)	20
Arsenic	134*	200*	75-125	18	20	3.95	4.27	8	20
Beryllium	103	139*	75-125	20	20	0.536	0.551	3	20
Cadmium	115	145*	75-125	18	20	0.455	0.470	3 (1)	20
Chromium	185*	186*	75-125	1	20	19.9	20.3	2	20
Cobalt	118	141*	75-125	17	20	5.87	6.29	7	20
Copper	116	163*	75-125	18	20	12.8	13.5	5	20
Lead	159 (2)	325 (2)	75-125	16	20	24.3	51.3	71*	20
Nickel	128*	182*	75-125	18	20	16.0	17.2	7	20

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267829
Reported: 11/03/11 at 09:54 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Silver	118	139*	75-125	18	20	0.0518 J	0.0544 J	5 (1)	20
Thallium	107	146*	75-125	21*	20	0.275	0.264	4 (1)	20
Vanadium	91	178*	75-125	18	20	35.9	36.0	0	20
Zinc	228 (2)	62 (2)	75-125	9	20	168	166	1	20
Batch number: 112661026001B	Sample number(s): 6415776-6415782,6415785-6415796 UNSPK: 6415779 BKG: 6415779								
Selenium	114	134*	75-125	16	20	0.189 J	0.177 J	7 (1)	20
Batch number: 112661026001C	Sample number(s): 6415776-6415782,6415785-6415796 UNSPK: 6415779 BKG: 6415779								
Molybdenum	117	141*	75-125	19	20	0.789	0.925	16	20
Batch number: 112661026001D	Sample number(s): 6415776-6415782,6415785-6415796 UNSPK: 6415779 BKG: 6415779								
Barium	146 (2)	320 (2)	75-125	14	20	98.2	99.0	1	20
Batch number: 112665708002	Sample number(s): 6415776-6415782,6415785-6415796 UNSPK: 6415779 BKG: 6415779								
Aluminum	1509 (2)	1681 (2)	75-125	2	20	14,900	14,200	5	20
Boron	100	101	84-115	0	20	4.66 J	4.23 J	9 (1)	20
Calcium	80 (2)	118 (2)	75-125	3	20	4,440	4,150	7	20
Lithium	100	102	82-114	0	20	18.9	17.7	6	20
Magnesium	155 (2)	213 (2)	75-125	3	20	3,920	3,720	5	20
Manganese	53 (2)	94 (2)	75-125	6	20	282	255	10	20
Phosphorus	73 (2)	90 (2)	75-125	3	20	434	419	3	20
Potassium	132*	138*	75-125	1	20	3,820	3,630	5	20
Sodium	101	102	75-125	0	20	82.2 J	79.1 J	4 (1)	20
Strontium	98	100	75-115	1	20	22.6	21.5	5	20
Tin	92	93	80-110	1	20	3.21 J	3.06 J	5 (1)	20
Titanium	285 (2)	248 (2)	75-125	3	20	1,060	996	7	20
Zirconium	94	91	75-125	4	20	3.00 J	2.64 J	13 (1)	20
Batch number: 112665711005	Sample number(s): 6415776-6415782,6415785-6415796 UNSPK: 6415779 BKG: 6415779								
Mercury	103	105	65-135	2	20	0.0259 J	0.0265 J	2 (1)	20
Batch number: 112785708001	Sample number(s): 6415776-6415782,6415785-6415796 UNSPK: 6415779 BKG: 6415779								
Iron	-913 (2)	431 (2)	75-125	7	20	18,800	19,400	3	20
Batch number: 11265281401A	Sample number(s): 6415798 UNSPK: P415222 BKG: P415222								
3b Cr VI by EPA 7199	90		59-135			5.0 U	5.0 U	0 (1)	20
Batch number: 11266373204A	Sample number(s): 6415776-6415780,6415782,6415785-6415787,6415789-6415791 UNSPK: 6415779 BKG: 6415779								
7a Perchlorate EPA 314.0	115		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11266373204B	Sample number(s): 6415788,6415792-6415796 UNSPK: 6415792 BKG: 6415792								
7a Perchlorate EPA 314.0	94		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11273196601A	Sample number(s): 6415790 UNSPK: P415779 BKG: P415779								
11a Anions by 300.0 - Nitrate	84		80-120			6.3	7.5	18 (1)	20
Batch number: 11273196601B	Sample number(s): 6415791 UNSPK: 6415791 BKG: 6415791								
11a Anions by 300.0 - Nitrate	91		80-120			2.2	2.0	11 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267829
Reported: 11/03/11 at 09:54 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11273621201A	Sample number(s): 6415776-6415780,6415782,6415785-6415790 UNSPK: 6415779 BKG: 6415779								
11a Anions by 300.0 - Fluoride	87		80-120			0.80 U	3.8	200* (1)	20
Batch number: 11273621201B	Sample number(s): 6415791-6415796 UNSPK: 6415791 BKG: 6415791								
11a Anions by 300.0 - Fluoride	54*		80-120			5.3	4.8	10 (1)	20
Batch number: 11276243203A	Sample number(s): 6415776-6415780,6415782,6415785-6415796 UNSPK: 6415779 BKG: 6415779								
3a Cr VI by EPA 7199	84		75-125			0.20 U	0.20 U	0 (1)	20
Batch number: 11277102201A	Sample number(s): 6415777-6415780,6415782,6415785-6415786,6415788-6415791 UNSPK: 6415779 BKG: 6415779								
16a Cyanide by 9012B	95		75-125			0.23 J	0.24 J	6 (1)	20
Batch number: 11277039402A	Sample number(s): 6415776-6415779,6415782,6415785-6415789 BKG: 6415779								
17a pH by 9045C						5.87	5.91	1	3
Batch number: 11277039402B	Sample number(s): 6415790-6415796 BKG: 6415796								
17a pH by 9045C						7.30	7.38	1	3
Batch number: 11271162401B	Sample number(s): 6415776-6415783,6415785-6415789,6415792-6415796 BKG: 6415779								
28a Moisture Content by 160.3						2.5	2.6	4	20
Moisture Content by 160.3						2.5	2.6	4	20
Moisture Content by 160.3						2.5	2.6	4	20
Batch number: 11284162402A	Sample number(s): 6415790-6415791 BKG: 6415790								
Moisture Content by 160.3						9.5	9.4	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11267WAH026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6415798	71	41	74	101	98	88
Blank	61	35	89	92	91	83
LCS	68	42	92	93	93	80
LCSD	69	41	96	104	99	87
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11267WAI026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6415798	169*	95	98

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267829
Reported: 11/03/11 at 09:54 AM

Surrogate Quality Control

Blank	98	95	97
LCS	98	91	87
LCSD	102	97	93
Limits:	40-130	45-130	45-135

Analysis Name: 21b. NDMA in Water
Batch number: 11269WAA026

	N-Nitrosodimethylamine-d6
6415798	264*
Blank	135
LCS	150
LCSD	137
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11270SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6415776	114	101	99
6415777	95	74	90
6415778	87	81	79
6415779	101	77	86
6415780	121	89	108
6415781	102	77	97
6415785	84	76	77
6415786	86	81	81
6415787	118	102	105
6415788	84	81	81
6415789	88	75	69
6415790	104	93	98
6415791	99	88	91
6415792	97	89	95
6415793	95	88	92
6415794	99	92	92
6415795	98	91	95
6415796	103	64	96
Blank	108	103	106
LCS	110	93	95
MS	121	89	108
MSD	102	77	97
Limits:	40-130	45-130	45-135

Analysis Name: 21a NDMA by 1625C
Batch number: 11272SLB026

	N-Nitrosodimethylamine-d6
6415790	351*
6415791	373*
Blank	159*
LCS	165*
MS	347*

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267829
Reported: 11/03/11 at 09:54 AM

Surrogate Quality Control

MSD 351*

Limits: 50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11277SLD026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6415776	99	102	77	94	94	81
6415777	81	83	73	77	83	73
6415778	89	91	76	81	86	76
6415779	97	98	82	87	93	90
6415780	96	97	83	89	95	91
6415781	98	98	82	91	97	90
6415785	98	101	88	87	98	92
6415786	92	96	75	90	90	78
6415787	90	92	73	84	85	73
6415788	98	99	79	92	93	81
6415789	93	97	84	89	94	89
6415790	96	97	74	89	88	79
6415791	97	99	81	94	95	83
6415792	88	90	75	85	87	82
6415793	100	101	76	90	90	84
6415794	98	99	72	91	93	83
6415795	95	96	72	90	92	79
6415796	98	100	70	90	92	82
Blank	93	98	78	93	91	77
LCS	101	103	88	98	95	84
MS	96	97	83	89	95	91
MSD	98	98	82	91	97	90
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11270B34A

	Trifluorotoluene-F
6415790	89
6415791	89
6415792	85
6415793	88
6415794	86
6415795	90
6415796	97
Blank	102
LCS	92
LCSD	91
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11277B20A

	Trifluorotoluene-F
6415797	86
Blank	83
LCS	111

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267829
Reported: 11/03/11 at 09:54 AM

Surrogate Quality Control

LCSD	111	
Limits:	63-135	

Analysis Name: 20b Formaldehyde 8315A
Batch number: 112660030A

	Butyraldehyde
6415798	95
Blank	89
LCS	90
LCSD	93
Limits:	45-145

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 112670054A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6415798	104	86
Blank	96	79
LCS	102	79
LCSD	98	71
Limits:	30-150	45-120

Analysis Name: 12b Pesticides by 8081A
Batch number: 112670055A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6415798	93	89
Blank	108	99
LCS	96	69
LCSD	100	79
Limits:	52-141	40-144

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112670056A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6415777	84	97
6415783	93	187*
6415784	99	69
6415785	35*	49
6415786	80	68
6415787	95	93
6415788	100	86
6415789	91	84
6415790	105	77
6415791	95	74
6415792	99	89
6415793	99	98
6415794	97	90
6415795	102	93
6415796	113	101
Blank	106	108

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267829
Reported: 11/03/11 at 09:54 AM

Surrogate Quality Control

LCS	115	118
LCSD	107	114
MS	62	77
MSD	64	70
Limits:	53-139	45-120

Analysis Name: 13b Herbicides by EPA 8151
Batch number: 112670061A

	2,4-Dichlorophenylacetic acid
6415798	86
Blank	85
LCS	95
LCSD	98
Limits:	35-144

Analysis Name: 15b Energetics by 8330A
Batch number: 112670063A

	2-Nitro-m-xylene
6415798	93
Blank	101
LCS	95
LCSD	98
Limits:	50-134

Analysis Name: 20a Formaldehyde 8315A
Batch number: 112670064A

	Butyraldehyde
6415790	92
6415791	95
Blank	105
LCS	101
MS	99
MSD	98
Limits:	64-126

Analysis Name: 15a Energetics by 8330A
Batch number: 112690017A

	2-Nitro-m-xylene
6415790	111
6415791	107
Blank	113
LCS	106
LCSD	105
MS	113
MSD	107
Limits:	80-146

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267829
Reported: 11/03/11 at 09:54 AM

Surrogate Quality Control

Analysis Name: 12a Pesticides by 8081A
Batch number: 112690019A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6415776	68	96
6415777	62	57
6415778	67	176*
6415779	55	400*
6415780	49*	0*
6415781	41*	0*
6415783	65	85
6415784	57	92
6415785	45*	287*
6415786	80	106
6415787	68	249*
6415788	69	69
6415789	52	372*
Blank	78	114
LCS	73	118
MS	49*	0*
MSD	41*	0*
Limits:	50-130	20-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 112690021A

	2,4-Dichlorophenylacetic acid
6415776	144
6415777	139
6415778	105
6415779	53
6415780	134
6415781	34*
6415783	58
6415784	100
6415785	101
6415786	70
6415787	128
6415788	147
6415789	31*
Blank	112
LCS	87
MS	134
MSD	34*
Limits:	36-156

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112770010A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6415776	85	80
6415778	87	86
6415779	95	77
6415780	101	95

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267829
Reported: 11/03/11 at 09:54 AM

Surrogate Quality Control

6415781	87	79
Blank	101	106
LCS	91	102
LCSD	93	104
MS	101	95
MSD	87	79
Limits:	53-139	45-120

Analysis Name: 22b Terphenyls by 8015B
Batch number: 112670020A

	n-Triacontane-d62
6415798	76
Blank	73
LCS	74
LCSD	73
Limits:	17-138

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 112670036A

	Chlorobenzene	Orthoterphenyl
6415798	96	100
Blank	92	91
LCS	109	97
LCSD	110	98
Limits:	28-152	52-131

Analysis Name: 18a Alcohols by 8015B
Batch number: 112670066A

	Acetone
6415777	78
6415778	49
6415779	73
6415780	105
6415781	71
6415783	127
6415784	106
6415785	137
6415786	97
6415788	69
6415789	65
6415790	86
6415791	90
6415792	85
6415793	49
6415794	89
6415795	69
6415796	92
Blank	95
LCS	93
MS	105
MSD	71

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267829
Reported: 11/03/11 at 09:54 AM

Surrogate Quality Control

Limits: 42-138

Analysis Name: 18b Alcohols by 8015B
Batch number: 112700016A

	Acetone
6415798	101
Blank	97
LCS	96
MS	99
MSD	97

Limits: 54-147

Analysis Name: 19b Glycols by 8015B
Batch number: 112710013A

	Tetramethylene glycol
6415798	113
Blank	117
LCS	106
LCSD	107

Limits: 29-157

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112720009A

	n-Triacontane-d62
6415777	223*
6415778	226*
6415779	279*
6415780	293*
6415781	271*
6415783	290*
6415784	68
6415785	43
6415786	72
6415788	75
6415789	2080*
6415790	65
6415791	63
6415792	63
6415793	64
6415794	65
6415795	67
6415796	62
Blank	69
LCS	63
MS	293*
MSD	271*

Limits: 19-152

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112720035A

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267829
Reported: 11/03/11 at 09:54 AM

Surrogate Quality Control

	Chlorobenzene	Orthoterphenyl
6415777	74	98
6415778	70	110
6415779	79	131
6415780	107	126
6415781	88	136
6415783	75	128
6415784	88	96
6415785	79	114
6415786	73	97
6415788	71	96
6415789	79	126
6415790	53	85
6415791	51	90
6415792	53	82
6415793	51	88
6415794	57	88
6415795	53	87
6415796	52	83
Blank	86	95
LCS	93	100
MS	107	126
MSD	88	136
Limits:	37-125	47-145

Analysis Name: 19a Glycols by 8015B
Batch number: 112730030A

	Tetramethylene glycol
6415777	61
6415778	65
6415779	64
6415780	65
6415781	65
6415785	61
6415786	64
6415788	63
6415789	64
6415790	74
6415791	75
6415792	72
6415793	73
6415794	73
6415795	75
6415796	73
Blank	85
LCS	86
MS	65
MSD	65
Limits:	29-137

*- Outside of specification
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acct#13013 Gp# 1267829 samp6# 6415776-98

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea II (SA6) only, also report Tetratin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Perchlorate EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dioxins EPA 8270	Other Instructions and Notes
SL-001-SA7-SS-0.0-0.5	09.21.11	0800	SOIL	NONE	1-SS Sleeve			X	X																		
SL-001-SA7-SS-0.0-0.5	09.21.11	0800	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		X	X											
SL-051-SA7-SS-0.0-0.5	09.21.11	1150	SOIL	NONE	1-SS Sleeve			X	X																		
SL-051-SA7-SS-0.0-0.5	09.21.11	1150	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		
SL-119-SA7-SS-0.0-0.5	09.21.11	1035	SOIL	NONE	1-SS Sleeve			X	X																		
SL-119-SA7-SS-0.0-0.5	09.21.11	1035	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		
SL-120-SA7-SS-0.0-0.5MS	09.21.11	1000	SOIL	NONE	1-SS Sleeve			X	X																		MS/MSD
SL-120-SA7-SS-0.0-0.5MS	09.21.11	1000	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		MS/MSD
SL-121-SA7-SS-0.0-0.5	09.21.11	0935	SOIL	NONE	1-SS Sleeve			X	X																		
SL-121-SA7-SS-0.0-0.5	09.21.11	0935	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		
SL-123-SA7-SS-0.0-0.5	09.21.11	0840	SOIL	NONE	1-SS Sleeve			X	X																		
SL-123-SA7-SS-0.0-0.5	09.21.11	0840	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		
SL-124-SA7-SS-0.0-0.5	09.21.11	0820	SOIL	NONE	1-SS Sleeve			X	X																		
SL-124-SA7-SS-0.0-0.5	09.21.11	0820	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		X	X											
SL-175-SA7-SS-0.0-0.5	09.21.11	0900	SOIL	NONE	1-SS Sleeve			X	X																		
SL-175-SA7-SS-0.0-0.5	09.21.11	0900	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		
DUP04-SA7-QC-092111	09.21.11	1005	SOIL	NONE	1-SS Sleeve			X	X																		
DUP04-SA7-QC-092111	09.21.11	1005	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	09/21/2011 / 1600	LLI 9/22/11 0850	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No(s)	
		8754 3341 5820,2784,5670,5669	

Acct# 13013 Ap# 1267829 Sample# 6415776-98

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonol EPA 8270	Other Instructions and Notes
SL-056-SA7-SB-4.5	09.21.11	0843	SOIL	NONE	2-Encores										X											
SL-056-SA7-SB-4.0-5.0	09.21.11	0842	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X		
SL-057-SA7-SB-3.5	09.21.11	0806	SOIL	NONE	2-Encores										X											
SL-057-SA7-SB-3.0-4.0	09.21.11	0805	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-078-SA7-SB-4.5	09.21.11	1210	SOIL	NONE	2-Encores										X											
SL-078-SA7-SB-4.0-5.0	09.21.11	1209	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X		
SL-078-SA7-SB-7.5	09.21.11	1214	SOIL	NONE	2-Encores										X											
SL-078-SA7-SB-7.0-8.0	09.21.11	1213	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X		
SL-156-SA7-SB-4.5	09.21.11	1440	SOIL	NONE	2-Encores										X											
SL-156-SA7-SB-4.0-5.0	09.21.11	1439	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X		
SL-156-SA7-SB-8.0	09.21.11	1444	SOIL	NONE	2-Encores										X											
SL-156-SA7-SB-7.5-8.5	09.21.11	1443	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X		
SL-158-SA7-SB-4.5	09.21.11	1052	SOIL	NONE	2-Encores										X											
SL-158-SA7-SB-4.0-5.0	09.21.11	1051	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X		
TB-092111	09.21.11	0800	WATER	NONE	2-40mL vials										X											

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	09/21/2011 / 1600	LLJ 9/22/11 0850	Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**	
		8754 3341 5820,2784,5670,5669	

acct# 13013 Qp# 1267829 sample# 6415776-98

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 8 (SA8) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
EB-SA7-SS-092111	09.21.11	1400	WATER	NONE	12-1 liter ambers			X	X	X					X	X	X			X	X		X			X	
EB-SA7-SS-092111	09.21.11	1400	WATER	NONE	1-500 mL poly		X				X	X	X														
EB-SA7-SS-092111	09.21.11	1400	WATER	HNO3	1-500 mL poly	X																					
EB-SA7-SS-092111	09.21.11	1400	WATER	NaOH	1-500 mL glass																	X					
EB-SA7-SS-092111	09.21.11	1400	WATER	NONE	1-250 mL glass														X								
EB-SA7-SS-092111	09.21.11	1400	WATER	HCl	2-40 mL vials																				X		
EB-SA7-SS-092111	09.21.11	1400	WATER	NONE	4-40 mL vials													X						X			

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	09/21/2011 / 1600	LI 9/22/11 0850	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8754 3341 5820,2784,5670,5669	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 11, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/22/2011
Group Number: 1267831
SDG: DX139
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-001-SA7-SS-0.0-0.5 Soil	6415801
SL-061-SA7-SS-0.0-0.5 Soil	6415802
SL-119-SA7-SS-0.0-0.5 Soil	6415803
SL-120-SA7-SS-0.0-0.5 Soil	6415804
SL-120-SA7-SS-0.0-0.5MS Soil	6415805
SL-120-SA7-SS-0.0-0.5MSD Soil	6415806
SL-121-SA7-SS-0.0-0.5 Soil	6415807
SL-123-SA7-SS-0.0-0.5 Soil	6415808

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-001-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA7-SS-0.0-0.5

LLI Sample # SW 6415801
LLI Group # 1267831
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:00

Submitted: 09/22/2011 08:50
Reported: 10/11/2011 20:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3915 SDG#: DX139-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-001-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA7-SS-0.0-0.5

LLI Sample # SW 6415801
LLI Group # 1267831
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:00

Submitted: 09/22/2011 08:50
Reported: 10/11/2011 20:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3915 SDG#: DX139-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0715	U	0.0715	1.02	1
11031	12378-PeCDD	40321-76-4	0.294	J	0.0534	5.09	1
11031	123478-HxCDD	39227-28-6	0.322	JQ	0.0622	5.09	1
11031	123678-HxCDD	57653-85-7	1.05	J	0.0644	5.09	1
11031	123789-HxCDD	19408-74-3	0.682	JB	0.0631	5.09	1
11031	1234678-HpCDD	35822-46-9	32.7	B	0.0933	5.09	1
11031	OCDD	3268-87-9	249	B	0.100	10.2	1
11031	2378-TCDF	51207-31-9	0.212	J	0.0801	1.02	1
11031	12378-PeCDF	57117-41-6	0.266	JQ	0.0405	5.09	1
11031	23478-PeCDF	57117-31-4	0.0405	U	0.0405	5.09	1
11031	123478-HxCDF	70648-26-9	0.362	JQ	0.0525	5.09	1
11031	123678-HxCDF	57117-44-9	0.246	JQ	0.0461	5.09	1
11031	123789-HxCDF	72918-21-9	0.344	JBQ	0.0575	5.09	1
11031	234678-HxCDF	60851-34-5	0.370	JBQ	0.0468	5.09	1
11031	1234678-HpCDF	67562-39-4	2.93	JB	0.0366	5.09	1
11031	1234789-HpCDF	55673-89-7	0.321	JBQ	0.0621	5.09	1
11031	OCDF	39001-02-0	6.33	JB	0.0744	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	59	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-001-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA7-SS-0.0-0.5

LLI Sample # SW 6415801
LLI Group # 1267831
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:00

Submitted: 09/22/2011 08:50
Reported: 10/11/2011 20:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3915 SDG#: DX139-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-001-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA7-SS-0.0-0.5

LLI Sample # SW 6415801
LLI Group # 1267831
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:00

Submitted: 09/22/2011 08:50
Reported: 10/11/2011 20:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3915 SDG#: DX139-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11273001	10/05/2011 04:10	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11273001	09/30/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162401B	09/28/2011 22:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-061-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA7-SS-0.0-0.5

LLI Sample # SW 6415802
LLI Group # 1267831
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 11:50

Submitted: 09/22/2011 08:50
Reported: 10/11/2011 20:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3916 SDG#: DX139-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-061-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA7-SS-0.0-0.5

LLI Sample # SW 6415802
LLI Group # 1267831
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 11:50

Submitted: 09/22/2011 08:50
Reported: 10/11/2011 20:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3916 SDG#: DX139-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.380	JQ	0.0805	1.03	1
11031	12378-PeCDD	40321-76-4	1.08	J	0.0870	5.13	1
11031	123478-HxCDD	39227-28-6	1.39	J	0.0708	5.13	1
11031	123678-HxCDD	57653-85-7	3.69	J	0.0663	5.13	1
11031	123789-HxCDD	19408-74-3	3.22	JB	0.0591	5.13	1
11031	1234678-HpCDD	35822-46-9	94.9	B	0.0989	5.13	1
11031	OCDD	3268-87-9	663	B	0.126	10.3	1
11650	2378-TCDF-Conf	51207-31-9	1.49	C	0.0731	1.03	1
11031	12378-PeCDF	57117-41-6	1.03	JQ	0.0701	5.13	1
11031	23478-PeCDF	57117-31-4	1.42	JB	0.0692	5.13	1
11031	123478-HxCDF	70648-26-9	3.27	J	0.0745	5.13	1
11031	123678-HxCDF	57117-44-9	1.06	JQ	0.0665	5.13	1
11031	123789-HxCDF	72918-21-9	0.513	JB	0.0596	5.13	1
11031	234678-HxCDF	60851-34-5	1.08	JBQ	0.0551	5.13	1
11031	1234678-HpCDF	67562-39-4	15.5	B	0.0539	5.13	1
11031	1234789-HpCDF	55673-89-7	1.35	JB	0.0600	5.13	1
11031	OCDF	39001-02-0	42.0	B	0.0685	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-2378-TCDF-Conf	67	24 - 169
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	56	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	65	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	62	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration

*=This limit was used in the evaluation of the final result

Sample Description: **SL-061-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA7-SS-0.0-0.5

LLI Sample # SW 6415802
LLI Group # 1267831
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 11:50

Submitted: 09/22/2011 08:50
Reported: 10/11/2011 20:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3916 SDG#: DX139-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

F *Interference is present*
S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-061-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-061-SA7-SS-0.0-0.5

LLI Sample # SW 6415802
LLI Group # 1267831
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 11:50

Submitted: 09/22/2011 08:50
Reported: 10/11/2011 20:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3916 SDG#: DX139-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11273001	10/05/2011 05:06	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11273001	10/08/2011 08:56	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11273001	09/30/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162401B	09/28/2011 22:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-119-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA7-SS-0.0-0.5

LLI Sample # SW 6415803
LLI Group # 1267831
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:35

Submitted: 09/22/2011 08:50
Reported: 10/11/2011 20:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3917 SDG#: DX139-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-119-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA7-SS-0.0-0.5

LLI Sample # SW 6415803
LLI Group # 1267831
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:35

Submitted: 09/22/2011 08:50
Reported: 10/11/2011 20:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3917 SDG#: DX139-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.137	JQ	0.0733	0.991	1
11031	12378-PeCDD	40321-76-4	0.940	J	0.0758	4.96	1
11031	123478-HxCDD	39227-28-6	1.55	J	0.0866	4.96	1
11031	123678-HxCDD	57653-85-7	6.49		0.0823	4.96	1
11031	123789-HxCDD	19408-74-3	3.58	JB	0.0903	4.96	1
11031	1234678-HpCDD	35822-46-9	199	B	0.173	4.96	1
11031	OCDD	3268-87-9	3,140	B	0.241	9.91	1
11031	2378-TCDF	51207-31-9	0.268	J	0.112	0.991	1
11031	12378-PeCDF	57117-41-6	0.416	JQ	0.0663	4.96	1
11031	23478-PeCDF	57117-31-4	1.16	JB	0.0603	4.96	1
11031	123478-HxCDF	70648-26-9	1.64	J	0.0582	4.96	1
11031	123678-HxCDF	57117-44-9	1.02	J	0.0516	4.96	1
11031	123789-HxCDF	72918-21-9	0.939	JB	0.0476	4.96	1
11031	234678-HxCDF	60851-34-5	1.23	JB	0.0440	4.96	1
11031	1234678-HpCDF	67562-39-4	22.4	B	0.0697	4.96	1
11031	1234789-HpCDF	55673-89-7	2.12	JB	0.0693	4.96	1
11031	OCDF	39001-02-0	61.7	B	0.0776	9.91	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	65	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	68	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-119-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA7-SS-0.0-0.5

LLI Sample # SW 6415803
LLI Group # 1267831
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:35

Submitted: 09/22/2011 08:50
Reported: 10/11/2011 20:28

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X3917 SDG#: DX139-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-119-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA7-SS-0.0-0.5

LLI Sample # SW 6415803
LLI Group # 1267831
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:35

Submitted: 09/22/2011 08:50
Reported: 10/11/2011 20:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3917 SDG#: DX139-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11273001	10/05/2011 06:03	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11273001	09/30/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162401B	09/28/2011 22:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-120-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415804
LLI Group # 1267831
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 10/11/2011 20:28

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X3918 SDG#: DX139-18BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-120-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415804
LLI Group # 1267831
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 10/11/2011 20:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3918 SDG#: DX139-18BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.158	JQ	0.0766	1.01	1
11031	12378-PeCDD	40321-76-4	0.906	J	0.0810	5.07	1
11031	123478-HxCDD	39227-28-6	1.89	J	0.108	5.07	1
11031	123678-HxCDD	57653-85-7	6.23		0.108	5.07	1
11031	123789-HxCDD	19408-74-3	3.64	JB	0.0998	5.07	1
11031	1234678-HpCDD	35822-46-9	179	B	0.160	5.07	1
11031	OCDD	3268-87-9	1,990	B	0.205	10.1	1
11031	2378-TCDF	51207-31-9	0.789	J	0.126	1.01	1
11031	12378-PeCDF	57117-41-6	0.533	J	0.0737	5.07	1
11031	23478-PeCDF	57117-31-4	1.82	JB	0.0662	5.07	1
11031	123478-HxCDF	70648-26-9	2.19	J	0.0854	5.07	1
11031	123678-HxCDF	57117-44-9	1.74	J	0.0699	5.07	1
11031	123789-HxCDF	72918-21-9	0.888	JB	0.0529	5.07	1
11031	234678-HxCDF	60851-34-5	1.99	JB	0.0467	5.07	1
11031	1234678-HpCDF	67562-39-4	27.5	B	0.0975	5.07	1
11031	1234789-HpCDF	55673-89-7	2.54	JB	0.0868	5.07	1
11031	OCDF	39001-02-0	52.8	B	0.0955	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	97	25 - 164
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	92	32 - 141
13C12-123678-HxCDD	94	28 - 130
13C12-123789-HxCDD	96	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	96	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	92	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	61	26 - 123
13C12-234678-HxCDF	89	28 - 136
13C12-123789-HxCDF	94	29 - 147
13C12-1234678-HpCDF	65	28 - 143
13C12-1234789-HpCDF	85	26 - 138
13C12-OCDF	73	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-120-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415804
LLI Group # 1267831
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 10/11/2011 20:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3918 SDG#: DX139-18BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-120-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415804
LLI Group # 1267831
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 10/11/2011 20:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3918 SDG#: DX139-18BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11273001	10/05/2011 06:59	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11273001	09/30/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162401B	09/28/2011 22:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-120-SA7-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415805
LLI Group # 1267831
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 10/11/2011 20:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3918 SDG#: DX139-18MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-120-SA7-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415805
LLI Group # 1267831
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 10/11/2011 20:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3918 SDG#: DX139-18MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	20.6		0.0918	1.01	1
11031	12378-PeCDD	40321-76-4	103		0.0965	5.05	1
11031	123478-HxCDD	39227-28-6	105		0.110	5.05	1
11031	123678-HxCDD	57653-85-7	106		0.112	5.05	1
11031	123789-HxCDD	19408-74-3	103	B	0.107	5.05	1
11031	1234678-HpCDD	35822-46-9	228	B	0.159	5.05	1
11031	OCDD	3268-87-9	1,520	B	0.189	10.1	1
11031	2378-TCDF	51207-31-9	19.8		0.136	1.01	1
11031	12378-PeCDF	57117-41-6	99.1		0.0895	5.05	1
11031	23478-PeCDF	57117-31-4	98.4	B	0.0790	5.05	1
11031	123478-HxCDF	70648-26-9	100		0.0889	5.05	1
11031	123678-HxCDF	57117-44-9	101		0.0867	5.05	1
11031	123789-HxCDF	72918-21-9	98.9	B	0.0891	5.05	1
11031	234678-HxCDF	60851-34-5	99.9	B	0.0789	5.05	1
11031	1234678-HpCDF	67562-39-4	117	B	0.0967	5.05	1
11031	1234789-HpCDF	55673-89-7	101	B	0.116	5.05	1
11031	OCDF	39001-02-0	234	B	0.102	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	71	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-120-SA7-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415805
LLI Group # 1267831
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 10/11/2011 20:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3918 SDG#: DX139-18MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-120-SA7-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415805
LLI Group # 1267831
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 10/11/2011 20:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3918 SDG#: DX139-18MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11273001	10/05/2011 12:52	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11273001	09/30/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162401B	09/28/2011 22:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-120-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415806
LLI Group # 1267831
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 10/11/2011 20:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3918 SDG#: DX139-18MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-120-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415806
LLI Group # 1267831
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 10/11/2011 20:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3918 SDG#: DX139-18MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.0		0.0909	1.02	1
11031	12378-PeCDD	40321-76-4	105		0.0936	5.09	1
11031	123478-HxCDD	39227-28-6	105		0.119	5.09	1
11031	123678-HxCDD	57653-85-7	107		0.119	5.09	1
11031	123789-HxCDD	19408-74-3	103	B	0.115	5.09	1
11031	1234678-HpCDD	35822-46-9	247	B	0.189	5.09	1
11031	OCDD	3268-87-9	1,710	B	0.236	10.2	1
11031	2378-TCDF	51207-31-9	19.3		0.135	1.02	1
11031	12378-PeCDF	57117-41-6	106		0.0893	5.09	1
11031	23478-PeCDF	57117-31-4	103	B	0.0805	5.09	1
11031	123478-HxCDF	70648-26-9	103		0.134	5.09	1
11031	123678-HxCDF	57117-44-9	103		0.118	5.09	1
11031	123789-HxCDF	72918-21-9	102	B	0.108	5.09	1
11031	234678-HxCDF	60851-34-5	102	B	0.0977	5.09	1
11031	1234678-HpCDF	67562-39-4	127	B	0.103	5.09	1
11031	1234789-HpCDF	55673-89-7	104	B	0.119	5.09	1
11031	OCDF	39001-02-0	242	B	0.109	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	67	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-120-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415806
LLI Group # 1267831
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 10/11/2011 20:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3918 SDG#: DX139-18MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-120-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SS-0.0-0.5

LLI Sample # SW 6415806
LLI Group # 1267831
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:00

Submitted: 09/22/2011 08:50
Reported: 10/11/2011 20:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3918 SDG#: DX139-18MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11273001	10/05/2011 18:31	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11273001	09/30/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162401B	09/28/2011 22:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-121-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA7-SS-0.0-0.5

LLI Sample # SW 6415807
LLI Group # 1267831
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 09:35

Submitted: 09/22/2011 08:50
Reported: 10/11/2011 20:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3919 SDG#: DX139-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-121-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA7-SS-0.0-0.5

LLI Sample # SW 6415807
LLI Group # 1267831
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 09:35

Submitted: 09/22/2011 08:50
Reported: 10/11/2011 20:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3919 SDG#: DX139-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.303	J	0.0689	1.00	1
11031	12378-PeCDD	40321-76-4	2.27	J	0.0961	5.02	1
11031	123478-HxCDD	39227-28-6	4.83	J	0.0861	5.02	1
11031	123678-HxCDD	57653-85-7	26.0		0.0862	5.02	1
11031	123789-HxCDD	19408-74-3	10.2	B	0.0844	5.02	1
11031	1234678-HpCDD	35822-46-9	1,020	B	0.327	5.02	1
11031	OCDD	3268-87-9	9,900	EB	0.411	10.0	1
11650	2378-TCDF-Conf	51207-31-9	2.35	C	0.148	1.00	1
11031	12378-PeCDF	57117-41-6	3.21	J	0.122	5.02	1
11031	23478-PeCDF	57117-31-4	9.43	B	0.107	5.02	1
11031	123478-HxCDF	70648-26-9	15.3		0.174	5.02	1
11031	123678-HxCDF	57117-44-9	5.71		0.153	5.02	1
11031	123789-HxCDF	72918-21-9	5.15	B	0.115	5.02	1
11031	234678-HxCDF	60851-34-5	7.04	B	0.105	5.02	1
11031	1234678-HpCDF	67562-39-4	141	B	0.137	5.02	1
11031	1234789-HpCDF	55673-89-7	15.1	B	0.135	5.02	1
11031	OCDF	39001-02-0	319	B	0.137	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-2378-TCDF-Conf	74	24 - 169
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	66	17 - 157
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	47	26 - 152
13C12-123678-HxCDF	52	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	56	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	61	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-121-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA7-SS-0.0-0.5

LLI Sample # SW 6415807
LLI Group # 1267831
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 09:35

Submitted: 09/22/2011 08:50
Reported: 10/11/2011 20:28

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X3919 SDG#: DX139-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-121-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA7-SS-0.0-0.5

LLI Sample # SW 6415807
LLI Group # 1267831
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 09:35

Submitted: 09/22/2011 08:50
Reported: 10/11/2011 20:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3919 SDG#: DX139-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11273001	10/05/2011 14:45	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11273001	10/08/2011 10:02	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11273001	09/30/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162401B	09/28/2011 22:01	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-123-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-123-SA7-SS-0.0-0.5

LLI Sample # SW 6415808
LLI Group # 1267831
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:40

Submitted: 09/22/2011 08:50
Reported: 10/11/2011 20:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3920 SDG#: DX139-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-123-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-123-SA7-SS-0.0-0.5

LLI Sample # SW 6415808
LLI Group # 1267831
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:40

Submitted: 09/22/2011 08:50
Reported: 10/11/2011 20:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3920 SDG#: DX139-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.135	JQ	0.0558	1.01	1
11031	12378-PeCDD	40321-76-4	1.03	J	0.0700	5.05	1
11031	123478-HxCDD	39227-28-6	2.21	J	0.0802	5.05	1
11031	123678-HxCDD	57653-85-7	7.38		0.0762	5.05	1
11031	123789-HxCDD	19408-74-3	3.90	JB	0.0698	5.05	1
11031	1234678-HpCDD	35822-46-9	190	B	0.187	5.05	1
11031	OCDD	3268-87-9	1,910	B	0.214	10.1	1
11031	2378-TCDF	51207-31-9	0.198	J	0.0584	1.01	1
11031	12378-PeCDF	57117-41-6	0.313	J	0.0418	5.05	1
11031	23478-PeCDF	57117-31-4	0.0395	U	0.0395	5.05	1
11031	123478-HxCDF	70648-26-9	2.44	J	0.0780	5.05	1
11031	123678-HxCDF	57117-44-9	1.39	J	0.0669	5.05	1
11031	123789-HxCDF	72918-21-9	0.955	JB	0.0723	5.05	1
11031	234678-HxCDF	60851-34-5	1.71	JB	0.0594	5.05	1
11031	1234678-HpCDF	67562-39-4	27.0	B	0.0636	5.05	1
11031	1234789-HpCDF	55673-89-7	2.92	JB	0.0930	5.05	1
11031	OCDF	39001-02-0	51.3	B	0.105	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	58	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-123-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-123-SA7-SS-0.0-0.5

LLI Sample # SW 6415808
LLI Group # 1267831
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:40

Submitted: 09/22/2011 08:50
Reported: 10/11/2011 20:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3920 SDG#: DX139-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-123-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-123-SA7-SS-0.0-0.5

LLI Sample # SW 6415808
LLI Group # 1267831
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:40

Submitted: 09/22/2011 08:50
Reported: 10/11/2011 20:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X3920 SDG#: DX139-20*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11273001	10/05/2011 15:42	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11273001	09/30/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162401B	09/28/2011 22:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267831
Reported: 10/11/11 at 08:28 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11271162401B	Sample number(s): 6415801-6415808								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11273001	Sample number(s): 6415801-6415808								
2378-TCDD	0.0675 U	0.0675	1.00	ng/kg	104		67-158		
12378-PeCDD	0.0446 U	0.0446	5.00	ng/kg	104		70-142		
123478-HxCDD	0.0352 U	0.0352	5.00	ng/kg	103		70-164		
123678-HxCDD	0.0357 U	0.0357	5.00	ng/kg	99		76-134		
123789-HxCDD	0.0371 J	0.0321	5.00	ng/kg	101		64-162		
1234678-HpCDD	0.226 J	0.0457	5.00	ng/kg	100		70-140		
OCDD	0.460 J	0.0388	10.0	ng/kg	99		78-144		
2378-TCDF	0.0543 U	0.0543	1.00	ng/kg	97		75-158		
2378-TCDF-Conf	0.0471 J	0.0143	1.00	ng/kg	97		75-158		
12378-PeCDF	0.0263 U	0.0263	5.00	ng/kg	101		80-134		
23478-PeCDF	0.0485 J	0.0256	5.00	ng/kg	99		68-160		
123478-HxCDF	0.0256 U	0.0256	5.00	ng/kg	99		72-134		
123678-HxCDF	0.0218 U	0.0218	5.00	ng/kg	103		84-130		
123789-HxCDF	0.0325 J	0.0266	5.00	ng/kg	98		78-130		
234678-HxCDF	0.0306 J	0.0224	5.00	ng/kg	100		70-156		
1234678-HpCDF	0.0694 J	0.0157	5.00	ng/kg	96		82-122		
1234789-HpCDF	0.0447 J	0.0264	5.00	ng/kg	100		78-138		
OCDF	0.167 J	0.0689	10.0	ng/kg	99		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11271162401B	Sample number(s): 6415801-6415808 BKG: P415779								
Moisture Content by 160.3						2.5	2.6	4	20
Batch number: 11273001	Sample number(s): 6415801-6415808 UNSPK: 6415804								
2378-TCDD	101	102	67-158	2	25				
12378-PeCDD	101	103	70-142	2	25				
123478-HxCDD	102	101	70-164	0	25				
123678-HxCDD	99	99	76-134	1	25				
123789-HxCDD	99	97	64-162	1	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267831
Reported: 10/11/11 at 08:28 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1234678-HpCDD	48*	66*	70-140	8	25				
OCDD	-232 (2)	-134 (2)	78-144	12	25				
2378-TCDF	94	91	75-158	3	25				
2378-TCDF-Conf	94	91	75-158	3	25				
12378-PeCDF	98	103	80-134	6	25				
23478-PeCDF	96	100	68-160	5	25				
123478-HxCDF	97	99	72-134	3	25				
123678-HxCDF	98	99	84-130	2	25				
123789-HxCDF	97	100	78-130	3	25				
234678-HxCDF	97	98	70-156	2	25				
1234678-HpCDF	89	97	82-122	7	25				
1234789-HpCDF	98	99	78-138	2	25				
OCDF	90	93	63-170	3	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11273001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6415801	72	63	60	70	66	63
6415802	72	63	53	56	66	75
6415803	78	74	57	63	74	78
6415804	97	92	53	61	89	94
6415805	78	74	70	72	78	80
6415806	79	73	63	68	79	85
6415807	82	76	47	52	79	81
6415808	78	72	58	66	74	73
Blank	79	77	72	81	77	78
MS	78	74	70	72	78	80
MSD	79	73	63	68	79	85
OPR	68	66	60	65	67	68
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6415801	82	59	59	68	75	77
6415802	65	66	62	67	71	77
6415803	65	73	68	74	77	80
6415804	65	85	73	92	92	94
6415805	76	77	71	75	80	83
6415806	71	77	67	74	84	85
6415807	56	72	61	74	80	84
6415808	76	65	58	74	79	85
Blank	99	72	68	84	88	90

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267831
Reported: 10/11/11 at 08:28 PM

Surrogate Quality Control

MS	76	77	71	75	80	83
MSD	71	77	67	74	84	85
OPR	85	63	60	71	76	77
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6415801	76	78	77	68	70	
6415802	80	79	72	73	67	67
6415803	70	79	72	80	73	
6415804	96	90	78	96	91	
6415805	83	83	78	79	75	
6415806	88	82	73	81	73	
6415807	84	77	66		74	74
6415808	86	78	72	76	77	
Blank	90	93	90	76	82	72
MS	83	83	78	79	75	79
MSD	88	82	73	81	73	81
OPR	77	80	78	63	71	63
Limits:	28-130	23-140	17-157	24-169	24-185	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 QP# 1267831 samp6#6415801-08

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Silvaresa II (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dioxins# EPA 8270	Other Instructions and Notes
SL-001-SA7-SS-0.0-0.5	09.21.11	0800	SOIL	NONE	1-SS Sleeve			X	X																		
SL-001-SA7-SS-0.0-0.5	09.21.11	0800	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		X	X											
SL-061-SA7-SS-0.0-0.5	09.21.11	1150	SOIL	NONE	1-SS Sleeve			X	X																		
SL-061-SA7-SS-0.0-0.5	09.21.11	1150	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		
SL-119-SA7-SS-0.0-0.5	09.21.11	1035	SOIL	NONE	1-SS Sleeve			X	X																		
SL-119-SA7-SS-0.0-0.5	09.21.11	1035	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		
SL-120-SA7-SS-0.0-0.5MS	09.21.11	1000	SOIL	NONE	1-SS Sleeve			X	X																		MS/MSD
SL-120-SA7-SS-0.0-0.5MS	09.21.11	1000	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		MS/MSD
SL-121-SA7-SS-0.0-0.5	09.21.11	0935	SOIL	NONE	1-SS Sleeve			X	X																		
SL-121-SA7-SS-0.0-0.5	09.21.11	0935	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		
SL-123-SA7-SS-0.0-0.5	09.21.11	0840	SOIL	NONE	1-SS Sleeve			X	X																		
SL-123-SA7-SS-0.0-0.5	09.21.11	0840	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		
SL-124-SA7-SS-0.0-0.5	09.21.11	0820	SOIL	NONE	1-SS Sleeve			X	X																		
SL-124-SA7-SS-0.0-0.5	09.21.11	0820	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		X	X											
SL-175-SA7-SS-0.0-0.5	09.21.11	0900	SOIL	NONE	1-SS Sleeve			X	X																		
SL-175-SA7-SS-0.0-0.5	09.21.11	0900	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		
DUP04-SA7-QC-092111	09.21.11	1005	SOIL	NONE	1-SS Sleeve			X	X																		
DUP04-SA7-QC-092111	09.21.11	1005	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		

Relinquished by: (Signature) — Date/Time: 09/21/2011 / 1600 — Received for Laboratory by: (Signature): LLI 9/22/11 0830 — Laboratory: Lancaster Laboratories, Inc.

Received by: (Signature) — Date/Time — Airbill No.(s): 8754 3341 5820,2784,5670,5669

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 12, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/22/2011
Group Number: 1267832
SDG: DX140
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-124-SA7-SS-0.0-0.5 Soil	6415809
SL-175-SA7-SS-0.0-0.5 Soil	6415810
DUP04-SA7-QC-092111 Soil	6415811
SL-056-SA7-SB-4.0-5.0 Soil	6415812
SL-057-SA7-SB-3.0-4.0 Soil	6415813
SL-078-SA7-SB-4.0-5.0 Soil	6415814
SL-078-SA7-SB-7.0-8.0 Soil	6415815
SL-156-SA7-SB-4.0-5.0 Soil	6415816
SL-156-SA7-SB-7.5-8.5 Soil	6415817
SL-158-SA7-SB-4.0-5.0 Soil	6415818
EB-SA7-SS-092111 Water	6415819

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-124-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-124-SA7-SS-0.0-0.5

LLI Sample # SW 6415809
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:20

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4001 SDG#: DX140-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-124-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-124-SA7-SS-0.0-0.5

LLI Sample # SW 6415809
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:20

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4001 SDG#: DX140-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0893	JB	0.0232	1.02	1
11031	12378-PeCDD	40321-76-4	0.402	JB	0.0465	5.10	1
11031	123478-HxCDD	39227-28-6	0.588	JB	0.0868	5.10	1
11031	123678-HxCDD	57653-85-7	1.69	JB	0.0888	5.10	1
11031	123789-HxCDD	19408-74-3	1.15	JB	0.0855	5.10	1
11031	1234678-HpCDD	35822-46-9	42.5	B	0.0553	5.10	1
11031	OCDD	3268-87-9	423	B	0.0344	10.2	1
11031	2378-TCDF	51207-31-9	0.404	J	0.0573	1.02	1
11031	12378-PeCDF	57117-41-6	0.723	JB	0.0354	5.10	1
11031	23478-PeCDF	57117-31-4	0.865	JBQ	0.0346	5.10	1
11031	123478-HxCDF	70648-26-9	0.794	JB	0.0555	5.10	1
11031	123678-HxCDF	57117-44-9	0.443	JB	0.0496	5.10	1
11031	123789-HxCDF	72918-21-9	0.332	JB	0.0567	5.10	1
11031	234678-HxCDF	60851-34-5	0.535	JB	0.0503	5.10	1
11031	1234678-HpCDF	67562-39-4	5.95	B	0.0251	5.10	1
11031	1234789-HpCDF	55673-89-7	0.567	JB	0.0351	5.10	1
11031	OCDF	39001-02-0	10.6	B	0.0305	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	66	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-124-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-124-SA7-SS-0.0-0.5

LLI Sample # SW 6415809
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:20

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4001 SDG#: DX140-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-124-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-124-SA7-SS-0.0-0.5

LLI Sample # SW 6415809
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:20

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4001 SDG#: DX140-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11276002	10/05/2011 23:05	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11276002	10/03/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162401B	09/28/2011 22:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-175-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-175-SA7-SS-0.0-0.5

LLI Sample # SW 6415810
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 09:00

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4002 SDG#: DX140-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-175-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-175-SA7-SS-0.0-0.5

LLI Sample # SW 6415810
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 09:00

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4002 SDG#: DX140-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.675 JB	0.0360	1.00	1
11031	12378-PeCDD	40321-76-4	4.04 JB	0.127	5.00	1
11031	123478-HxCDD	39227-28-6	6.40 B	0.0984	5.00	1
11031	123678-HxCDD	57653-85-7	24.7 B	0.0996	5.00	1
11031	123789-HxCDD	19408-74-3	15.9 B	0.102	5.00	1
11031	1234678-HpCDD	35822-46-9	851 B	0.229	5.00	1
11031	OCDD	3268-87-9	11,400 EB	0.190	10.0	1
11031	2378-TCDF	51207-31-9	0.185 J	0.0432	1.00	1
11031	12378-PeCDF	57117-41-6	0.709 JB	0.0364	5.00	1
11031	23478-PeCDF	57117-31-4	0.621 JB	0.0364	5.00	1
11031	123478-HxCDF	70648-26-9	1.99 JB	0.0625	5.00	1
11031	123678-HxCDF	57117-44-9	1.88 JB	0.0573	5.00	1
11031	123789-HxCDF	72918-21-9	0.481 JB	0.0693	5.00	1
11031	234678-HxCDF	60851-34-5	2.82 JB	0.0593	5.00	1
11031	1234678-HpCDF	67562-39-4	59.9 B	0.0661	5.00	1
11031	1234789-HpCDF	55673-89-7	5.11 B	0.0912	5.00	1
11031	OCDF	39001-02-0	155 B	0.0448	10.0	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	73	28 - 136

*=This limit was used in the evaluation of the final result

Sample Description: **SL-175-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-175-SA7-SS-0.0-0.5

LLI Sample # SW 6415810
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 09:00

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4002 SDG#: DX140-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

Labeled Compounds	%Rec	Windows
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	63	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*
S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-175-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-175-SA7-SS-0.0-0.5

LLI Sample # SW 6415810
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 09:00

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4002 SDG#: DX140-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11276002	10/06/2011 00:01	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11276002	10/03/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162401B	09/28/2011 22:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP04-SA7-QC-092111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP04-SA7-QC-092111

LLI Sample # SW 6415811
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:05

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4003 SDG#: DX140-03FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP04-SA7-QC-092111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP04-SA7-QC-092111

LLI Sample # SW 6415811
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:05

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4003 SDG#: DX140-03FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.170	JBQ	0.0476	0.999	1
11031	12378-PeCDD	40321-76-4	0.940	JB	0.103	4.99	1
11031	123478-HxCDD	39227-28-6	1.52	JB	0.217	4.99	1
11031	123678-HxCDD	57653-85-7	5.04	B	0.226	4.99	1
11031	123789-HxCDD	19408-74-3	2.87	JB	0.228	4.99	1
11031	1234678-HpCDD	35822-46-9	150	B	0.175	4.99	1
11031	OCDD	3268-87-9	1,540	B	0.220	9.99	1
11031	2378-TCDF	51207-31-9	0.460	J	0.161	0.999	1
11031	12378-PeCDF	57117-41-6	0.851	JB	0.0862	4.99	1
11031	23478-PeCDF	57117-31-4	1.53	JB	0.0783	4.99	1
11031	123478-HxCDF	70648-26-9	2.06	JB	0.136	4.99	1
11031	123678-HxCDF	57117-44-9	1.57	JB	0.126	4.99	1
11031	123789-HxCDF	72918-21-9	1.11	JB	0.129	4.99	1
11031	234678-HxCDF	60851-34-5	1.92	JB	0.127	4.99	1
11031	1234678-HpCDF	67562-39-4	26.8	B	0.0943	4.99	1
11031	1234789-HpCDF	55673-89-7	2.64	JB	0.106	4.99	1
11031	OCDF	39001-02-0	43.3	B	0.0655	9.99	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	72	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP04-SA7-QC-092111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP04-SA7-QC-092111

LLI Sample # SW 6415811
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:05

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4003 SDG#: DX140-03FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **DUP04-SA7-QC-092111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP04-SA7-QC-092111

LLI Sample # SW 6415811
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:05

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4003 SDG#: DX140-03FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11276002	10/06/2011 00:58	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11276002	10/03/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162401B	09/28/2011 22:01	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-056-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA7-SB-4.0-5.0

LLI Sample # SW 6415812
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:42

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4004 SDG#: DX140-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-056-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA7-SB-4.0-5.0

LLI Sample # SW 6415812
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:42

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4004 SDG#: DX140-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0386 JBQ	0.0169	1.08	1
11031	12378-PeCDD	40321-76-4	0.0505 JBQ	0.0189	5.40	1
11031	123478-HxCDD	39227-28-6	0.0172 U	0.0172	5.40	1
11031	123678-HxCDD	57653-85-7	0.0749 JB	0.0175	5.40	1
11031	123789-HxCDD	19408-74-3	0.0778 JB	0.0171	5.40	1
11031	1234678-HpCDD	35822-46-9	0.982 JB	0.0391	5.40	1
11031	OCDD	3268-87-9	14.2 B	0.0264	10.8	1
11031	2378-TCDF	51207-31-9	0.0201 U	0.0201	1.08	1
11031	12378-PeCDF	57117-41-6	0.145 JBQ	0.0131	5.40	1
11031	23478-PeCDF	57117-31-4	0.0654 JBQ	0.0124	5.40	1
11031	123478-HxCDF	70648-26-9	0.0894 JBQ	0.0140	5.40	1
11031	123678-HxCDF	57117-44-9	0.0572 JBQ	0.0127	5.40	1
11031	123789-HxCDF	72918-21-9	0.0477 JBQ	0.0145	5.40	1
11031	234678-HxCDF	60851-34-5	0.0505 JBQ	0.0130	5.40	1
11031	1234678-HpCDF	67562-39-4	0.261 JB	0.0162	5.40	1
11031	1234789-HpCDF	55673-89-7	0.0734 JBQ	0.0223	5.40	1
11031	OCDF	39001-02-0	0.465 JB	0.0283	10.8	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	60	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-056-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA7-SB-4.0-5.0

LLI Sample # SW 6415812
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:42

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4004 SDG#: DX140-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-056-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-056-SA7-SB-4.0-5.0

LLI Sample # SW 6415812
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:42

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4004 SDG#: DX140-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11276002	10/06/2011 01:55	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11276002	10/03/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11284162402A	10/11/2011 18:16	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-057-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-057-SA7-SB-3.0-4.0

LLI Sample # SW 6415813
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:05

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4005 SDG#: DX140-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-057-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-057-SA7-SB-3.0-4.0

LLI Sample # SW 6415813
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:05

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4005 SDG#: DX140-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0194 JBQ	0.0161	1.07	1
11031	12378-PeCDD	40321-76-4	0.0436 JBQ	0.0158	5.37	1
11031	123478-HxCDD	39227-28-6	0.0358 JBQ	0.0208	5.37	1
11031	123678-HxCDD	57653-85-7	0.160 JBQ	0.0224	5.37	1
11031	123789-HxCDD	19408-74-3	0.166 JB	0.0198	5.37	1
11031	1234678-HpCDD	35822-46-9	1.13 JB	0.0244	5.37	1
11031	OCDD	3268-87-9	21.9 B	0.0223	10.7	1
11031	2378-TCDF	51207-31-9	0.0347 J	0.0210	1.07	1
11031	12378-PeCDF	57117-41-6	0.179 JB	0.0130	5.37	1
11031	23478-PeCDF	57117-31-4	0.0997 JBQ	0.0125	5.37	1
11031	123478-HxCDF	70648-26-9	0.113 JBQ	0.0179	5.37	1
11031	123678-HxCDF	57117-44-9	0.142 JBQ	0.0168	5.37	1
11031	123789-HxCDF	72918-21-9	0.0621 JB	0.0200	5.37	1
11031	234678-HxCDF	60851-34-5	0.0561 JB	0.0172	5.37	1
11031	1234678-HpCDF	67562-39-4	0.279 JB	0.0135	5.37	1
11031	1234789-HpCDF	55673-89-7	0.0602 JBQ	0.0195	5.37	1
11031	OCDF	39001-02-0	0.429 JBQ	0.0227	10.7	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	65	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-057-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-057-SA7-SB-3.0-4.0

LLI Sample # SW 6415813
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:05

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4005 SDG#: DX140-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-057-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-057-SA7-SB-3.0-4.0

LLI Sample # SW 6415813
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 08:05

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4005 SDG#: DX140-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11276002	10/06/2011 02:51	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11276002	10/03/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11284162402A	10/11/2011 18:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-078-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA7-SB-4.0-5.0

LLI Sample # SW 6415814
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 12:09

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4006 SDG#: DX140-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-078-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA7-SB-4.0-5.0

LLI Sample # SW 6415814
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 12:09

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4006 SDG#: DX140-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0189 U	0.0189	1.09	1
11031	12378-PeCDD	40321-76-4	0.0425 JBQ	0.0202	5.44	1
11031	123478-HxCDD	39227-28-6	0.0371 JB	0.0160	5.44	1
11031	123678-HxCDD	57653-85-7	0.0555 JB	0.0170	5.44	1
11031	123789-HxCDD	19408-74-3	0.0606 JBQ	0.0157	5.44	1
11031	1234678-HpCDD	35822-46-9	1.32 JB	0.0357	5.44	1
11031	OCDD	3268-87-9	9.03 JB	0.0238	10.9	1
11031	2378-TCDF	51207-31-9	0.0161 JQ	0.0157	1.09	1
11031	12378-PeCDF	57117-41-6	0.0773 JBQ	0.0109	5.44	1
11031	23478-PeCDF	57117-31-4	0.0535 JB	0.0107	5.44	1
11031	123478-HxCDF	70648-26-9	0.0540 JB	0.0141	5.44	1
11031	123678-HxCDF	57117-44-9	0.0397 JBQ	0.0130	5.44	1
11031	123789-HxCDF	72918-21-9	0.0254 JBQ	0.0150	5.44	1
11031	234678-HxCDF	60851-34-5	0.0459 JBQ	0.0135	5.44	1
11031	1234678-HpCDF	67562-39-4	0.484 JB	0.0209	5.44	1
11031	1234789-HpCDF	55673-89-7	0.0600 JB	0.0302	5.44	1
11031	OCDF	39001-02-0	1.35 JB	0.0302	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	61	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-078-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA7-SB-4.0-5.0

LLI Sample # SW 6415814
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 12:09

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4006 SDG#: DX140-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-078-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA7-SB-4.0-5.0

LLI Sample # SW 6415814
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 12:09

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4006 SDG#: DX140-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11276002	10/06/2011 03:48	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11276002	10/03/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162401B	09/28/2011 22:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-078-SA7-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA7-SB-7.0-8.0

LLI Sample # SW 6415815
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 12:13

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4007 SDG#: DX140-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-078-SA7-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA7-SB-7.0-8.0

LLI Sample # SW 6415815
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 12:13

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4007 SDG#: DX140-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0305 JB	0.0210	1.06	1
11031	12378-PeCDD	40321-76-4	0.0545 JB	0.0188	5.29	1
11031	123478-HxCDD	39227-28-6	0.0196 JBQ	0.0140	5.29	1
11031	123678-HxCDD	57653-85-7	0.0534 JBQ	0.0145	5.29	1
11031	123789-HxCDD	19408-74-3	0.0572 JB	0.0141	5.29	1
11031	1234678-HpCDD	35822-46-9	0.229 JB	0.0178	5.29	1
11031	OCDD	3268-87-9	0.451 JBQ	0.0216	10.6	1
11031	2378-TCDF	51207-31-9	0.0166 U	0.0166	1.06	1
11031	12378-PeCDF	57117-41-6	0.0402 JB	0.0111	5.29	1
11031	23478-PeCDF	57117-31-4	0.0701 JB	0.0103	5.29	1
11031	123478-HxCDF	70648-26-9	0.0441 JB	0.0104	5.29	1
11031	123678-HxCDF	57117-44-9	0.0559 JB	0.00916	5.29	1
11031	123789-HxCDF	72918-21-9	0.0567 JB	0.0107	5.29	1
11031	234678-HxCDF	60851-34-5	0.0334 JB	0.00938	5.29	1
11031	1234678-HpCDF	67562-39-4	0.157 JB	0.00731	5.29	1
11031	1234789-HpCDF	55673-89-7	0.0420 JB	0.0105	5.29	1
11031	OCDF	39001-02-0	0.160 JB	0.0210	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	65	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-078-SA7-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA7-SB-7.0-8.0

LLI Sample # SW 6415815
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 12:13

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4007 SDG#: DX140-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-078-SA7-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-078-SA7-SB-7.0-8.0

LLI Sample # SW 6415815
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 12:13

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4007 SDG#: DX140-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11276002	10/06/2011 22:07	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11276002	10/03/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162401B	09/28/2011 22:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-156-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-156-SA7-SB-4.0-5.0

LLI Sample # SW 6415816
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:39

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4008 SDG#: DX140-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-156-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-156-SA7-SB-4.0-5.0

LLI Sample # SW 6415816
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:39

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4008 SDG#: DX140-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0683	JB	0.0194	1.05	1
11031	12378-PeCDD	40321-76-4	0.143	JB	0.0195	5.26	1
11031	123478-HxCDD	39227-28-6	0.0652	JBQ	0.0200	5.26	1
11031	123678-HxCDD	57653-85-7	0.146	JB	0.0219	5.26	1
11031	123789-HxCDD	19408-74-3	0.153	JB	0.0195	5.26	1
11031	1234678-HpCDD	35822-46-9	0.889	JB	0.0337	5.26	1
11031	OCDD	3268-87-9	7.01	JB	0.0205	10.5	1
11031	2378-TCDF	51207-31-9	0.0527	JQ	0.0181	1.05	1
11031	12378-PeCDF	57117-41-6	0.166	JB	0.0121	5.26	1
11031	23478-PeCDF	57117-31-4	0.183	JBQ	0.0115	5.26	1
11031	123478-HxCDF	70648-26-9	0.132	JB	0.0203	5.26	1
11031	123678-HxCDF	57117-44-9	0.130	JB	0.0188	5.26	1
11031	123789-HxCDF	72918-21-9	0.103	JB	0.0210	5.26	1
11031	234678-HxCDF	60851-34-5	0.0895	JBQ	0.0184	5.26	1
11031	1234678-HpCDF	67562-39-4	0.443	JB	0.0149	5.26	1
11031	1234789-HpCDF	55673-89-7	0.0537	JBQ	0.0220	5.26	1
11031	OCDF	39001-02-0	0.688	JB	0.0264	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	62	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-156-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-156-SA7-SB-4.0-5.0

LLI Sample # SW 6415816
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:39

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4008 SDG#: DX140-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-156-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-156-SA7-SB-4.0-5.0

LLI Sample # SW 6415816
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:39

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4008 SDG#: DX140-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11276002	10/06/2011 05:41	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11276002	10/03/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162401B	09/28/2011 22:01	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-156-SA7-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-156-SA7-SB-7.5-8.5

LLI Sample # SW 6415817
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:43

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4009 SDG#: DX140-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-156-SA7-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-156-SA7-SB-7.5-8.5

LLI Sample # SW 6415817
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:43

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4009 SDG#: DX140-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0172	JB	0.0161	1.09	1
11031	12378-PeCDD	40321-76-4	0.114	JB	0.0165	5.43	1
11031	123478-HxCDD	39227-28-6	0.0397	JBQ	0.0186	5.43	1
11031	123678-HxCDD	57653-85-7	0.122	JB	0.0191	5.43	1
11031	123789-HxCDD	19408-74-3	0.105	JB	0.0178	5.43	1
11031	1234678-HpCDD	35822-46-9	0.431	JB	0.0213	5.43	1
11031	OCDD	3268-87-9	2.13	JB	0.0238	10.9	1
11031	2378-TCDF	51207-31-9	0.0335	JQ	0.0127	1.09	1
11031	12378-PeCDF	57117-41-6	0.155	JB	0.00891	5.43	1
11031	23478-PeCDF	57117-31-4	0.135	JB	0.00902	5.43	1
11031	123478-HxCDF	70648-26-9	0.102	JB	0.0132	5.43	1
11031	123678-HxCDF	57117-44-9	0.134	JB	0.0123	5.43	1
11031	123789-HxCDF	72918-21-9	0.0726	JB	0.0139	5.43	1
11031	234678-HxCDF	60851-34-5	0.0734	JB	0.0122	5.43	1
11031	1234678-HpCDF	67562-39-4	0.208	JB	0.00891	5.43	1
11031	1234789-HpCDF	55673-89-7	0.0450	JB	0.0127	5.43	1
11031	OCDF	39001-02-0	0.284	JB	0.0192	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	63	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-156-SA7-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-156-SA7-SB-7.5-8.5

LLI Sample # SW 6415817
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:43

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4009 SDG#: DX140-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-156-SA7-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-156-SA7-SB-7.5-8.5

LLI Sample # SW 6415817
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:43

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4009 SDG#: DX140-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11276002	10/06/2011 23:04	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11276002	10/03/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162401B	09/28/2011 22:01	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-158-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-158-SA7-SB-4.0-5.0

LLI Sample # SW 6415818
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:51

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4010 SDG#: DX140-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-158-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-158-SA7-SB-4.0-5.0

LLI Sample # SW 6415818
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:51

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4010 SDG#: DX140-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0301 JBQ	0.0143	1.02	1
11031	12378-PeCDD	40321-76-4	0.0309 JBQ	0.0159	5.11	1
11031	123478-HxCDD	39227-28-6	0.0291 JBQ	0.0213	5.11	1
11031	123678-HxCDD	57653-85-7	0.121 JB	0.0220	5.11	1
11031	123789-HxCDD	19408-74-3	0.116 JB	0.0207	5.11	1
11031	1234678-HpCDD	35822-46-9	1.02 JB	0.0348	5.11	1
11031	OCDD	3268-87-9	9.74 JB	0.0275	10.2	1
11031	2378-TCDF	51207-31-9	0.0153 J	0.0133	1.02	1
11031	12378-PeCDF	57117-41-6	0.0525 JB	0.0101	5.11	1
11031	23478-PeCDF	57117-31-4	0.0889 JBQ	0.0101	5.11	1
11031	123478-HxCDF	70648-26-9	0.137 JB	0.0183	5.11	1
11031	123678-HxCDF	57117-44-9	0.0777 JB	0.0173	5.11	1
11031	123789-HxCDF	72918-21-9	0.0622 JBQ	0.0175	5.11	1
11031	234678-HxCDF	60851-34-5	0.0751 JBQ	0.0172	5.11	1
11031	1234678-HpCDF	67562-39-4	0.651 JB	0.0183	5.11	1
11031	1234789-HpCDF	55673-89-7	0.0742 JB	0.0238	5.11	1
11031	OCDF	39001-02-0	0.993 JB	0.0284	10.2	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	60	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-158-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-158-SA7-SB-4.0-5.0

LLI Sample # SW 6415818
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:51

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4010 SDG#: DX140-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-158-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-158-SA7-SB-4.0-5.0

LLI Sample # SW 6415818
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 10:51

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4010 SDG#: DX140-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11276002	10/06/2011 10:37	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11276002	10/03/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162401B	09/28/2011 22:01	Scott W Freisher	1

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Analysis Report

Sample Description: **EB-SA7-SS-092111 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SS-092111

LLI Sample # WW 6415819
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:00

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4011 SDG#: DX140-11EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.410	U	0.410	1.94	1
10915	12378-PeCDD	40321-76-4	0.324	JQ	0.317	9.72	1
10915	123478-HxCDD	39227-28-6	0.234	U	0.234	9.72	1
10915	123678-HxCDD	57653-85-7	0.228	U	0.228	9.72	1
10915	123789-HxCDD	19408-74-3	0.216	U	0.216	9.72	1
10915	1234678-HpCDD	35822-46-9	2.52	JBQ	0.304	9.72	1
10915	OCDD	3268-87-9	4.30	JB	0.301	19.4	1
10915	2378-TCDF	51207-31-9	0.312	U	0.312	1.94	1
10915	12378-PeCDF	57117-41-6	0.161	U	0.161	9.72	1
10915	23478-PeCDF	57117-31-4	0.426	JB	0.147	9.72	1
10915	123478-HxCDF	70648-26-9	0.151	U	0.151	9.72	1
10915	123678-HxCDF	57117-44-9	0.147	U	0.147	9.72	1
10915	123789-HxCDF	72918-21-9	0.333	J	0.150	9.72	1
10915	234678-HxCDF	60851-34-5	0.142	U	0.142	9.72	1
10915	1234678-HpCDF	67562-39-4	0.785	JB	0.132	9.72	1
10915	1234789-HpCDF	55673-89-7	0.221	JB	0.149	9.72	1
10915	OCDF	39001-02-0	1.07	JBQ	0.336	19.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	76	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **EB-SA7-SS-092111 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SS-092111

LLI Sample # WW 6415819
LLI Group # 1267832
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:00

Submitted: 09/22/2011 08:50
Reported: 10/12/2011 23:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4011 SDG#: DX140-11EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11270001	09/28/2011 20:03	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11270001	09/27/2011 07:50	Ginelle L Haines	1

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267832
Reported: 10/12/11 at 11:33 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11271162401B	Sample number(s): 6415809-6415811,6415814-6415818									
Moisture Content by 160.3						100		80-120		
Batch number: 11284162402A	Sample number(s): 6415812-6415813									
Moisture Content by 160.3						100		80-120		

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11270001	Sample number(s): 6415819									
2378-TCDD	0.736	J	0.708	2.00	pg/l	104		67-158		
12378-PeCDD	0.507	U	0.507	10.0	pg/l	104		70-142		
123478-HxCDD	0.378	U	0.378	10.0	pg/l	106		70-164		
123678-HxCDD	0.385	U	0.385	10.0	pg/l	101		76-134		
123789-HxCDD	0.399	J	0.352	10.0	pg/l	102		64-162		
1234678-HpCDD	3.23	J	0.402	10.0	pg/l	104		70-140		
OCDD	4.63	J	0.465	20.0	pg/l	103		78-144		
2378-TCDF	0.492	U	0.492	2.00	pg/l	98		75-158		
12378-PeCDF	0.430	J	0.274	10.0	pg/l	103		80-134		
23478-PeCDF	0.659	J	0.232	10.0	pg/l	101		68-160		
123478-HxCDF	0.497	J	0.275	10.0	pg/l	99		72-134		
123678-HxCDF	0.530	J	0.267	10.0	pg/l	101		84-130		
123789-HxCDF	0.247	U	0.247	10.0	pg/l	99		78-130		
234678-HxCDF	0.526	J	0.231	10.0	pg/l	100		70-156		
1234678-HpCDF	1.14	J	0.190	10.0	pg/l	101		82-122		
1234789-HpCDF	0.566	J	0.203	10.0	pg/l	101		78-138		
OCDF	1.21	J	0.464	20.0	pg/l	103		63-170		
Batch number: 11276002	Sample number(s): 6415809-6415818									
2378-TCDD	0.0397	J	0.0167	1.00	ng/kg	104		67-158		
12378-PeCDD	0.0530	J	0.0190	5.00	ng/kg	102		70-142		
123478-HxCDD	0.0215	J	0.0122	5.00	ng/kg	94		70-164		
123678-HxCDD	0.0373	J	0.0131	5.00	ng/kg	96		76-134		
123789-HxCDD	0.0302	J	0.0119	5.00	ng/kg	97		64-162		
1234678-HpCDD	0.260	J	0.0181	5.00	ng/kg	95		70-140		
OCDD	0.430	J	0.0213	10.0	ng/kg	95		78-144		
2378-TCDF	0.0167	U	0.0167	1.00	ng/kg	93		75-158		
12378-PeCDF	0.0314	J	0.00980	5.00	ng/kg	93		80-134		
23478-PeCDF	0.0668	J	0.00970	5.00	ng/kg	91		68-160		
123478-HxCDF	0.0558	J	0.00990	5.00	ng/kg	94		72-134		
123678-HxCDF	0.0302	J	0.00900	5.00	ng/kg	93		84-130		
123789-HxCDF	0.0514	J	0.0107	5.00	ng/kg	90		78-130		
234678-HxCDF	0.0364	J	0.00900	5.00	ng/kg	93		70-156		
1234678-HpCDF	0.115	J	0.00700	5.00	ng/kg	92		82-122		
1234789-HpCDF	0.0423	J	0.0110	5.00	ng/kg	93		78-138		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267832
Reported: 10/12/11 at 11:33 PM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
OCDF	0.129	J	0.0198	10.0	ng/kg	91		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11271162401B	Sample number(s): 6415809-6415811,6415814-6415818					BKG: P415779			
Moisture Content by 160.3						2.5	2.6	4	20
Batch number: 11284162402A	Sample number(s): 6415812-6415813					BKG: P415790			
Moisture Content by 160.3						9.5	9.4	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11270001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6415819	74	73	67	68	71	77
Blank	76	81	71	72	77	87
OPR	76	79	76	75	79	82
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6415819	70	74	76	73	71	73
Blank	80	83	87	78	78	79
OPR	85	90	97	79	78	84
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6415819	73	77	79	74	72
Blank	78	85	92	79	79
OPR	82	93	103	78	79
Limits:	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11276002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6415809	75	76	68	74	69	71
6415810	74	72	70	74	73	67

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1267832
Reported: 10/12/11 at 11:33 PM

Surrogate Quality Control

6415811	82	84	69	72	70	76
6415812	65	68	63	69	65	65
6415813	78	83	73	77	73	72
6415814	67	70	63	68	65	63
6415815	64	68	66	73	68	66
6415816	69	76	66	70	69	68
6415817	73	71	69	73	70	70
6415818	71	70	68	71	70	76
Blank	72	69	65	71	68	65
OPR	65	70	63	66	65	69
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6415809	85	68	66	83	80	82
6415810	80	65	63	78	79	81
6415811	73	72	72	88	83	83
6415812	77	62	60	74	75	77
6415813	86	68	65	87	87	85
6415814	78	62	61	75	77	75
6415815	86	65	65	73	78	79
6415816	85	65	62	83	83	82
6415817	83	64	63	75	80	79
6415818	78	66	60	76	81	79
Blank	83	63	60	77	81	78
OPR	79	66	67	74	78	76
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6415809	83	84	83	76	80	
6415810	82	81	83	74	77	
6415811	81	82	82	81	82	
6415812	77	80	75	63	71	
6415813	89	91	84	76	84	
6415814	77	81	78	67	72	
6415815	80	83	82	62	69	
6415816	84	83	79	68	79	
6415817	80	81	76	68	76	
6415818	79	80	73	69	73	
Blank	80	83	79	68	72	
OPR	78	84	82	66	72	
Limits:	28-130	23-140	17-157	24-169	24-185	

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp# 1267832 Sample# 641580979

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 8 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dinoseb EPA 8270	Other Instructions and Notes
SL-001-SA7-SS-0.0-0.5	09.21.11	0800	SOIL	NONE	1-SS Sleeve			X	X																		
SL-001-SA7-SS-0.0-0.5	09.21.11	0800	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		X	X											
SL-061-SA7-SS-0.0-0.5	09.21.11	1150	SOIL	NONE	1-SS Sleeve			X	X																		
SL-061-SA7-SS-0.0-0.5	09.21.11	1150	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		
SL-119-SA7-SS-0.0-0.5	09.21.11	1035	SOIL	NONE	1-SS Sleeve			X	X																		
SL-119-SA7-SS-0.0-0.5	09.21.11	1035	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		
SL-120-SA7-SS-0.0-0.5MS	09.21.11	1000	SOIL	NONE	1-SS Sleeve			X	X																		MS/MSD
SL-120-SA7-SS-0.0-0.5MS	09.21.11	1000	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		MS/MSD
SL-121-SA7-SS-0.0-0.5	09.21.11	0935	SOIL	NONE	1-SS Sleeve			X	X																		
SL-121-SA7-SS-0.0-0.5	09.21.11	0935	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		
SL-123-SA7-SS-0.0-0.5	09.21.11	0840	SOIL	NONE	1-SS Sleeve			X	X																		
SL-123-SA7-SS-0.0-0.5	09.21.11	0840	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		
SL-124-SA7-SS-0.0-0.5	09.21.11	0820	SOIL	NONE	1-SS Sleeve			X	X																		
SL-124-SA7-SS-0.0-0.5	09.21.11	0820	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		X	X											
SL-175-SA7-SS-0.0-0.5	09.21.11	0900	SOIL	NONE	1-SS Sleeve			X	X																		
SL-175-SA7-SS-0.0-0.5	09.21.11	0900	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		
DUP04-SA7-QC-092111	09.21.11	1005	SOIL	NONE	1-SS Sleeve			X	X																		
DUP04-SA7-QC-092111	09.21.11	1005	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	09/21/2011 / 1600	LLI 9/22/11 0850	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8754 3341 5820,2784,5670,5669	

acct# 13013 Gp# 1267832 Sample# 6415809-19

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals (EPA 6010/6020/7471A)	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowanol EPA 8270	Other Instructions and Notes
SL-056-SA7-SB-4.5	09.21.11	0843	SOIL	NONE	2-Encores										X											
SL-056-SA7-SB-4.0-5.0	09.21.11	0842	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X		
SL-057-SA7-SB-3.5	09.21.11	0806	SOIL	NONE	2-Encores										X											
SL-057-SA7-SB-3.0-4.0	09.21.11	0805	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-078-SA7-SB-4.5	09.21.11	1210	SOIL	NONE	2-Encores										X											
SL-078-SA7-SB-4.0-5.0	09.21.11	1209	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X		
SL-078-SA7-SB-7.5	09.21.11	1214	SOIL	NONE	2-Encores										X											
SL-078-SA7-SB-7.0-8.0	09.21.11	1213	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X		
SL-156-SA7-SB-4.5	09.21.11	1440	SOIL	NONE	2-Encores										X											
SL-156-SA7-SB-4.0-5.0	09.21.11	1439	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X		
SL-156-SA7-SB-8.0	09.21.11	1444	SOIL	NONE	2-Encores										X											
SL-156-SA7-SB-7.5-8.5	09.21.11	1443	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X		
SL-158-SA7-SB-4.5	09.21.11	1052	SOIL	NONE	2-Encores										X											
SL-158-SA7-SB-4.0-5.0	09.21.11	1051	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X		
TB-092111	09.21.11	0800	WATER	NONE	2-10mL vials										X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	09/21/2011 / 1600	LLI 9/22/11 0850	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8754 3341 5820,2784,5670,5669	

acct#13013 Gp# 1267832 sample# 6415809-19

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 8550 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dioxonal EPA 8270	Other Instructions and Notes
EB-SA7-SS-092111	09.21.11	1400	WATER	NONE	12-1 liter ambers			X	X	X					X	X	X			X	X		X			X	
EB-SA7-SS-092111	09.21.11	1400	WATER	NONE	1-500 mL poly		X				X	X	X														
EB-SA7-SS-092111	09.21.11	1400	WATER	HNO3	1-500 mL poly	X																					
EB-SA7-SS-092111	09.21.11	1400	WATER	NaOH	1-500 mL glass																	X					
EB-SA7-SS-092111	09.21.11	1400	WATER	NONE	1-250 mL glass														X								
EB-SA7-SS-092111	09.21.11	1400	WATER	HCl	2-40 mL vials																				X		
EB-SA7-SS-092111	09.21.11	1400	WATER	NONE	4-40 mL vials													X						X			

Relinquished by: (*Signature*) — Date/Time: 09/21/2011 / 1600 — Received for Laboratory by: (*Signature*) LLI 9/22/11 0850

Received by: (*Signature*) — Date/Time — Airbill No.(s): 8754 3341 5820,2784,5670,5669

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 20, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/23/2011
Group Number: 1268060
SDG: DE251
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-011-SA7-SS-0.0-0.5 Soil	6417426
SL-012-SA7-SS-0.0-0.5 Soil	6417427
SL-013-SA7-SS-0.0-0.5 Soil	6417428
SL-020-SA7-SS-0.0-0.5 Soil	6417429
SL-055-SA7-SS-0.0-0.5 Soil	6417430
SL-088-SA7-SS-0.0-0.5 Soil	6417431
SL-101-SA7-SS-0.0-0.5 Soil	6417432
SL-151-SA7-SS-0.0-0.5 Soil	6417433
SL-023-SA7-SS-0.0-0.5 Soil	6417434
SL-141-SA7-SS-0.0-0.5 Soil	6417435
SL-142-SA7-SS-0.0-0.5 Soil	6417436
SL-143-SA7-SS-0.0-0.5 Soil	6417437
SL-039-SA7-SB-4.0-5.0 Soil	6417438
SL-072-SA7-SB-4.0-5.0 Soil	6417439
SL-072-SA7-SB-7.5-8.5 Soil	6417440
SL-074-SA7-SB-4.0-5.0 Soil	6417441
SL-075-SA7-SB-4.0-5.0 Soil	6417442
SL-075-SA7-SB-9.0-10.0 Soil	6417443
SL-077-SA7-SB-4.0-5.0 Soil	6417444
TB-092211 Water	6417445
EB-SA7-SB-092211 Water	6417446

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser
1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Sarah M. Snyder
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-011-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA7-SS-0.0-0.5

LLI Sample # SW 6417426
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:35

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5101 SDG#: DE251-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-011-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA7-SS-0.0-0.5

LLI Sample # SW 6417426
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:35

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5101 SDG#: DE251-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.93	J	0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	1.7	J	0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	4.6		0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.96	J	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.95	J	0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	11	J	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	2.1		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	17	J	6.1	18		1
10138	Fluoranthene	206-44-0	2.7		0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.95	J	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	0.88	J	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	1.2	J	0.68	1.7		1
10138	Pyrene	129-00-0	2.2		0.68	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	8.6		0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	78	U	78	260		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	0.11	U	0.11	0.17		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17		1
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-011-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA7-SS-0.0-0.5

LLI Sample # SW 6417426
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:35

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5101 SDG#: DE251-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.080	U	0.080	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	0.82	U	0.82	3.5		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35		1
01363	p,p-DDE	72-55-9	1.3		0.067	0.35		1
01363	p,p-DDT	50-29-3	2.9		0.067	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.14	U	0.14	0.35		1
01363	Endosulfan I	959-98-8	0.058	U	0.058	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.19	U	0.19	0.35		1
01363	Endrin Ketone	53494-70-5	0.24	U	0.24	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.055	U	0.055	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.35		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
Reporting limits were raised due to interference from the sample matrix.								
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.5	J	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	1.8		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	7,760		6.05	20.0		1
07914	Boron	7440-42-8	3.42	J	0.360	5.00		1
01650	Calcium	7440-70-2	1,730		2.50	20.0		1
01654	Iron	7439-89-6	12,900		2.61	20.0		1
01656	Lithium	7439-93-2	17.2		0.62	2.0		1
01657	Magnesium	7439-95-4	2,500		0.440	10.0		1
06958	Manganese	7439-96-5	185		0.0360	0.500		1
10145	Phosphorus	7723-14-0	306		0.350	10.0		1
01662	Potassium	7440-09-7	2,700		11.3	50.0		1
01667	Sodium	7440-23-5	49.8	J	5.95	100		1
07968	Strontium	7440-24-6	7.80		0.0250	0.500		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-011-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA7-SS-0.0-0.5

LLI Sample # SW 6417426
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:35

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5101 SDG#: DE251-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06969	Tin	7440-31-5	2.37	J	0.320	10.0		1
06970	Titanium	7440-32-6	991		0.0717	1.01		1
10146	Zirconium	7440-67-7	0.932	J	0.460	5.00		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.141	J	0.0733	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.10		0.0793	0.396		2
06126	Barium	7440-39-3	64.1		0.105	0.396		2
06127	Beryllium	7440-41-7	0.394		0.0159	0.0991		2
06128	Cadmium	7440-43-9	0.0893	J	0.0436	0.0991		2
06131	Chromium	7440-47-3	13.7		0.119	0.396		2
06132	Cobalt	7440-48-4	3.95		0.0198	0.0991		2
06133	Copper	7440-50-8	10.9		0.0793	0.396		2
06135	Lead	7439-92-1	9.72		0.0101	0.198		2
06138	Molybdenum	7439-98-7	0.828		0.0495	0.0991		2
06139	Nickel	7440-02-0	16.3		0.0991	0.396		2
06141	Selenium	7782-49-2	0.130	J	0.0575	0.396		2
06142	Silver	7440-22-4	0.0141	U	0.0141	0.0991		2
06145	Thallium	7440-28-0	0.223		0.0297	0.0991		2
06148	Vanadium	7440-62-2	23.1		0.0218	0.0991		2
06149	Zinc	7440-66-6	56.0		0.555	2.97		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0070	U	0.0070	0.0996		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80	U	0.80	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.68		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-011-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA7-SS-0.0-0.5

LLI Sample # SW 6417426
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:35

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5101 SDG#: DE251-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLA026	10/05/2011 06:52	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11273SLA026	10/08/2011 10:46	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11273SLA026	10/01/2011 08:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLA026	10/03/2011 10:10	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112740020A	10/05/2011 14:05	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112690020A	10/04/2011 21:51	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112690013A	10/01/2011 07:46	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112690020A	09/29/2011 12:15	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112690013A	09/29/2011 11:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112740020A	10/04/2011 02:55	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	112695708005	10/03/2011 07:16	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112695708005	10/03/2011 07:16	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112695708005	10/03/2011 07:16	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112695708005	10/03/2011 07:16	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112695708005	10/03/2011 07:16	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112695708005	10/03/2011 07:16	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112695708005	10/03/2011 07:16	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112695708005	10/03/2011 07:16	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112695708005	10/03/2011 07:16	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112695708005	10/03/2011 07:16	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112695708005	10/03/2011 07:16	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112695708005	10/03/2011 07:16	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112775708002	10/05/2011 07:49	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112695708005	10/03/2011 07:16	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112691026001A	10/04/2011 04:52	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112691026001A	09/27/2011 20:33	David K Beck	2
06126	Barium	SW-846 6020	1	112691026001D	09/27/2011 20:33	David K Beck	2
06127	Beryllium	SW-846 6020	1	112691026001A	09/27/2011 20:33	David K Beck	2
06128	Cadmium	SW-846 6020	1	112691026001A	09/27/2011 20:33	David K Beck	2
06131	Chromium	SW-846 6020	1	112691026001A	09/27/2011 20:33	David K Beck	2
06132	Cobalt	SW-846 6020	1	112691026001A	09/27/2011 20:33	David K Beck	2
06133	Copper	SW-846 6020	1	112691026001A	09/27/2011 20:33	David K Beck	2
06135	Lead	SW-846 6020	1	112691026001A	10/04/2011 04:52	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026001C	09/27/2011 20:33	David K Beck	2
06139	Nickel	SW-846 6020	1	112691026001A	10/04/2011 04:52	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026001B	09/27/2011 20:33	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-011-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA7-SS-0.0-0.5

LLI Sample # SW 6417426
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:35

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5101 SDG#: DE251-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	112691026001A	09/27/2011 20:33	David K Beck	2
06145	Thallium	SW-846 6020	1	112691026001A	09/27/2011 20:33	David K Beck	2
06148	Vanadium	SW-846 6020	1	112691026001A	09/27/2011 20:33	David K Beck	2
06149	Zinc	SW-846 6020	1	112691026001A	09/27/2011 20:33	David K Beck	2
00159	Mercury	SW-846 7471A	1	112695711003	09/27/2011 19:17	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708005	09/27/2011 12:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708002	10/04/2011 13:57	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112775708002	10/04/2011 22:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026001	09/27/2011 12:48	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711003	09/27/2011 14:14	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11272621202A	09/30/2011 02:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11272621203A	09/29/2011 15:39	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11277243201A	10/05/2011 13:10	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11272621202A	09/29/2011 05:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11272621203A	09/29/2011 05:50	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11279039401A	10/06/2011 11:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11277243201A	10/04/2011 20:55	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162402A	09/28/2011 20:26	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-012-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA7-SS-0.0-0.5

LLI Sample # SW 6417427
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 11:10

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5102 SDG#: DE251-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1

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Sample Description: **SL-012-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA7-SS-0.0-0.5

LLI Sample # SW 6417427
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 11:10

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5102 SDG#: DE251-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.62	J	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	3.0		0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	4.4		0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	6.6		0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	2.4		0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	6.2		0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	14	J	6.1	18		1
10138	Chrysene	218-01-9	6.0		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	J	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	39		6.1	18		1
10138	Fluoranthene	206-44-0	10		0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.3		0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.89	J	0.68	1.7		1
10138	Naphthalene	91-20-3	1.4	J	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	6.2		0.68	1.7		1
10138	Pyrene	129-00-0	8.1		0.68	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	9.5		1.2	3.6		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	9.9		0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.1	U	2.1	5.1		1

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Sample Description: **SL-012-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA7-SS-0.0-0.5

LLI Sample # SW 6417427
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 11:10

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5102 SDG#: DE251-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.84		0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.14	J	0.035	0.17		1
01363	Chlordane	57-74-9	4.7		0.81	3.5		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35		1
01363	p,p-DDE	72-55-9	0.88		0.067	0.35		1
01363	p,p-DDT	50-29-3	2.2		0.067	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.14	U	0.14	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.21	U	0.21	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.37	U	0.37	0.37		1
01363	Endrin Ketone	53494-70-5	0.36		0.067	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.074	U	0.074	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.49	U	0.49	0.49		1
01363	Toxaphene	8001-35-2	21	U	21	21		1
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	2.9	J	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	2.3		0.34	1.7		1
10225	PCB-1260	11096-82-5	3.3		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
	The sample was analyzed after the initial calibration with the ending calibration standard analyzed outside the 12 hour window. The sample was not reanalyzed since the hold time had expired.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1

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Sample Description: **SL-012-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA7-SS-0.0-0.5

LLI Sample # SW 6417427
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 11:10

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5102 SDG#: DE251-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	2.0		0.41	1.2		1
10199	EFH (C21-C30)	n.a.	14		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	35		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.41	U	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	9,450		5.97	19.7		1
07914	Boron	7440-42-8	5.25		0.355	4.93		1
01650	Calcium	7440-70-2	2,860		2.47	19.7		1
01654	Iron	7439-89-6	15,400		2.58	19.7		1
01656	Lithium	7439-93-2	19.5		0.61	2.0		1
01657	Magnesium	7439-95-4	2,960		0.434	9.87		1
06958	Manganese	7439-96-5	224		0.0355	0.493		1
10145	Phosphorus	7723-14-0	417		0.345	9.87		1
01662	Potassium	7440-09-7	3,730		11.1	49.3		1
01667	Sodium	7440-23-5	56.4	J	5.87	98.7		1
07968	Strontium	7440-24-6	12.1		0.0247	0.493		1
06969	Tin	7440-31-5	2.46	J	0.316	9.87		1
06970	Titanium	7440-32-6	1,030		0.0714	1.01		1
10146	Zirconium	7440-67-7	0.815	J	0.454	4.93		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0745	U	0.0745	0.201		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	2.75		0.0805	0.402		2
06126	Barium	7440-39-3	70.7		0.107	0.402		2
06127	Beryllium	7440-41-7	0.371		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.126		0.0443	0.101		2
06131	Chromium	7440-47-3	9.40		0.121	0.402		2
06132	Cobalt	7440-48-4	3.25		0.0201	0.101		2
06133	Copper	7440-50-8	5.14		0.0805	0.402		2
06135	Lead	7439-92-1	22.6		0.0103	0.201		2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-012-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA7-SS-0.0-0.5

LLI Sample # SW 6417427
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 11:10

Submitted: 09/23/2011 09:20
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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E5102 SDG#: DE251-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06138	Molybdenum	7439-98-7	0.284		0.0503	0.101		2
06139	Nickel	7440-02-0	5.41		0.101	0.402		2
06141	Selenium	7782-49-2	0.0717	J	0.0584	0.402		2
06142	Silver	7440-22-4	0.0287	J	0.0143	0.101		2
06145	Thallium	7440-28-0	0.221		0.0302	0.101		2
06148	Vanadium	7440-62-2	18.8		0.0221	0.101		2
06149	Zinc	7440-66-6	60.9		0.563	3.02		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0145	J	0.0070	0.0988		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.98		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.6		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Sample Description: SL-012-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA7-SS-0.0-0.5

LLI Sample # SW 6417427
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E5102 SDG#: DE251-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLA026	10/05/2011 08:08	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11273SLA026	10/08/2011 09:09	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11273SLA026	10/01/2011 08:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLA026	10/03/2011 10:10	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112740020A	10/05/2011 14:33	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112770016A	10/05/2011 16:42	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112690020A	10/04/2011 22:36	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112690013A	10/01/2011 08:42	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112690020A	09/29/2011 12:15	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112690013A	09/29/2011 11:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112740020A	10/04/2011 02:55	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112770016A	10/05/2011 09:00	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112700014A	09/29/2011 08:12	Elizabeth J Marin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112700014A	09/30/2011 01:14	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112770026A	10/04/2011 20:27	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112730009A	10/02/2011 03:37	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112730005A	10/04/2011 15:47	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112730005A	09/30/2011 13:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112730009A	09/30/2011 17:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112700014A	09/28/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112770026A	10/04/2011 16:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708005	10/03/2011 07:39	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112695708005	10/03/2011 07:39	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112695708005	10/03/2011 07:39	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112695708005	10/03/2011 07:39	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112695708005	10/03/2011 07:39	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112695708005	10/03/2011 07:39	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112695708005	10/03/2011 07:39	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112695708005	10/03/2011 07:39	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112695708005	10/03/2011 07:39	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112695708005	10/03/2011 07:39	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112695708005	10/03/2011 07:39	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112695708005	10/03/2011 07:39	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112775708002	10/05/2011 08:13	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112695708005	10/03/2011 07:39	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112691026001A	09/27/2011 20:51	David K Beck	2
06125	Arsenic	SW-846 6020	1	112691026001A	09/27/2011 20:51	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-012-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA7-SS-0.0-0.5

LLI Sample # SW 6417427
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 11:10

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5102 SDG#: DE251-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112691026001D	09/27/2011 20:51	David K Beck	2
06127	Beryllium	SW-846 6020	1	112691026001A	09/27/2011 20:51	David K Beck	2
06128	Cadmium	SW-846 6020	1	112691026001A	09/27/2011 20:51	David K Beck	2
06131	Chromium	SW-846 6020	1	112691026001A	09/27/2011 20:51	David K Beck	2
06132	Cobalt	SW-846 6020	1	112691026001A	09/27/2011 20:51	David K Beck	2
06133	Copper	SW-846 6020	1	112691026001A	09/27/2011 20:51	David K Beck	2
06135	Lead	SW-846 6020	1	112691026001A	10/04/2011 05:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026001C	09/27/2011 20:51	David K Beck	2
06139	Nickel	SW-846 6020	1	112691026001A	10/04/2011 05:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026001B	09/27/2011 20:51	David K Beck	2
06142	Silver	SW-846 6020	1	112691026001A	09/27/2011 20:51	David K Beck	2
06145	Thallium	SW-846 6020	1	112691026001A	09/27/2011 20:51	David K Beck	2
06148	Vanadium	SW-846 6020	1	112691026001A	09/27/2011 20:51	David K Beck	2
06149	Zinc	SW-846 6020	1	112691026001A	09/27/2011 20:51	David K Beck	2
00159	Mercury	SW-846 7471A	1	112695711003	09/27/2011 19:19	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708005	09/27/2011 12:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708002	10/04/2011 13:57	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112775708002	10/04/2011 22:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026001	09/27/2011 12:48	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711003	09/27/2011 14:14	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11272621202A	09/30/2011 03:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11272621203A	09/29/2011 16:49	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11277243201A	10/05/2011 13:30	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	2	11277102202A	10/04/2011 19:48	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11272621202A	09/29/2011 05:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11272621203A	09/29/2011 05:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11277102202A	10/04/2011 16:10	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11279039401A	10/06/2011 11:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11277243201A	10/04/2011 20:55	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162402A	09/28/2011 20:26	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-013-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA7-SS-0.0-0.5

LLI Sample # SW 6417428
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 11:35

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5103 SDG#: DE251-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-013-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA7-SS-0.0-0.5

LLI Sample # SW 6417428
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 11:35

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5103 SDG#: DE251-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.79	J	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	5.1		0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	8.5		0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	13		0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	3.5		0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	8.8		0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	25		6.1	18		1
10138	Di-n-butylphthalate	84-74-2	11	J	6.1	18		1
10138	Chrysene	218-01-9	10		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	1.0	J	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	34		6.1	18		1
10138	Fluoranthene	206-44-0	18		0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.6		0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	1.0	J	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	6.6		0.68	1.7		1
10138	Pyrene	129-00-0	13		0.68	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	2.2	U	2.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	17		0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.18	U	0.18	0.18		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	Reporting limits were raised due to interference from the sample matrix.							
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-013-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA7-SS-0.0-0.5

LLI Sample # SW 6417428
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 11:35

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5103 SDG#: DE251-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.1	U	2.1	5.1		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	8.0		0.81	3.5		1
01363	p,p-DDD	72-54-8	0.83	U	0.83	0.83		1
01363	p,p-DDE	72-55-9	1.6		0.067	0.35		1
01363	p,p-DDT	50-29-3	4.9		0.67	3.5		10
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.19	U	0.19	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.37	U	0.37	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.092	U	0.092	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.33	U	0.33	0.35		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35		1
01363	Heptachlor	76-44-8	0.081	J	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.15	U	0.15	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.47	U	0.47	0.47		1
01363	Toxaphene	8001-35-2	27	U	27	27		1

The sample was injected following maintenance and a new calibration.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.
The DCB surrogate data is above the client specified limits of 20 -120%; however the recovery is within our in house statistical limits of 45-150%.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	3.2	J	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	3.5		0.34	1.7		1
10225	PCB-1260	11096-82-5	3.1		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-013-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA7-SS-0.0-0.5

LLI Sample # SW 6417428
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 11:35

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5103 SDG#: DE251-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Methanol	67-56-1	100	U	100	510		1
	The sample was analyzed after the initial calibration with the ending calibration standard analyzed outside the 12 hour window. The sample was not reanalyzed since the hold time had expired.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.0	U	2.0	6.1		5
10199	EFH (C15-C20)	n.a.	2.7	J	2.0	6.1		5
10199	EFH (C21-C30)	n.a.	29		2.0	6.1		5
10199	EFH (C30 - C40)	n.a.	76		2.0	6.1		5
10199	EFH (C8-C11)	n.a.	2.0	U	2.0	6.1		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	8,840		5.92	19.6		1
07914	Boron	7440-42-8	5.03		0.352	4.89		1
01650	Calcium	7440-70-2	2,700		2.45	19.6		1
01654	Iron	7439-89-6	14,300		2.55	19.6		1
01656	Lithium	7439-93-2	17.9		0.61	2.0		1
01657	Magnesium	7439-95-4	2,750		0.430	9.78		1
06958	Manganese	7439-96-5	215		0.0352	0.489		1
10145	Phosphorus	7723-14-0	405		0.342	9.78		1
01662	Potassium	7440-09-7	3,220		11.1	48.9		1
01667	Sodium	7440-23-5	59.8	J	5.82	97.8		1
07968	Strontium	7440-24-6	12.4		0.0245	0.489		1
06969	Tin	7440-31-5	2.34	J	0.313	9.78		1
06970	Titanium	7440-32-6	1,020		0.0708	0.997		1
10146	Zirconium	7440-67-7	0.700	J	0.450	4.89		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1,010		1.86	5.04		50
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	428		0.201	1.01		5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-013-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA7-SS-0.0-0.5

LLI Sample # SW 6417428
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 11:35

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5103 SDG#: DE251-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06126	Barium	7440-39-3	69.3		0.107	0.403		2
06127	Beryllium	7440-41-7	0.473		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.152		0.0443	0.101		2
06131	Chromium	7440-47-3	13.5		0.121	0.403		2
06132	Cobalt	7440-48-4	4.15		0.0201	0.101		2
06133	Copper	7440-50-8	14.1		0.0806	0.403		2
06135	Lead	7439-92-1	30,200		12.8	252		2500
06138	Molybdenum	7439-98-7	0.423		0.0504	0.101		2
06139	Nickel	7440-02-0	7.79		0.101	0.403		2
06141	Selenium	7782-49-2	0.137	J	0.0584	0.403		2
06142	Silver	7440-22-4	2.75		0.0143	0.101		2
06145	Thallium	7440-28-0	0.313	J	0.151	0.504		10
	Reporting limits were raised due to interference from the sample matrix.							
06148	Vanadium	7440-62-2	27.6		0.0222	0.101		2
06149	Zinc	7440-66-6	80.4		0.564	3.02		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0096	J	0.0069	0.0978		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.83	U	0.83	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.11		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-013-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA7-SS-0.0-0.5

LLI Sample # SW 6417428
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 11:35

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5103 SDG#: DE251-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLA026	10/05/2011 08:33	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11273SLA026	10/08/2011 11:18	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11273SLA026	10/01/2011 08:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLA026	10/03/2011 10:10	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112740020A	10/05/2011 12:43	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112770016A	10/05/2011 17:20	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112690020A	10/04/2011 22:51	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112690020A	10/07/2011 06:16	Melissa McDermott	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112690013A	10/01/2011 09:01	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112690020A	09/29/2011 12:15	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112690013A	09/29/2011 11:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112740020A	10/04/2011 02:55	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112770016A	10/05/2011 09:00	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112700014A	09/29/2011 08:30	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112770026A	10/04/2011 20:40	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112730009A	10/01/2011 21:41	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112730005A	10/05/2011 22:31	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112730005A	09/30/2011 13:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112730009A	09/30/2011 17:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112700014A	09/28/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112770026A	10/04/2011 16:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708005	10/03/2011 07:51	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112695708005	10/03/2011 07:51	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112695708005	10/03/2011 07:51	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112695708005	10/03/2011 07:51	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112695708005	10/03/2011 07:51	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112695708005	10/03/2011 07:51	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112695708005	10/03/2011 07:51	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112695708005	10/03/2011 07:51	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112695708005	10/03/2011 07:51	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-013-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA7-SS-0.0-0.5

LLI Sample # SW 6417428
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 11:35

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5103 SDG#: DE251-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	112695708005	10/03/2011 07:51	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112695708005	10/03/2011 07:51	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112695708005	10/03/2011 07:51	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112775708002	10/05/2011 08:17	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112695708005	10/03/2011 07:51	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112691026001A	10/04/2011 05:53	Choon Y Tian	50
06125	Arsenic	SW-846 6020	1	112691026001A	10/04/2011 05:49	Choon Y Tian	5
06126	Barium	SW-846 6020	1	112691026001D	09/27/2011 20:55	David K Beck	2
06127	Beryllium	SW-846 6020	1	112691026001A	09/27/2011 20:55	David K Beck	2
06128	Cadmium	SW-846 6020	1	112691026001A	09/27/2011 20:55	David K Beck	2
06131	Chromium	SW-846 6020	1	112691026001A	09/27/2011 20:55	David K Beck	2
06132	Cobalt	SW-846 6020	1	112691026001A	09/27/2011 20:55	David K Beck	2
06133	Copper	SW-846 6020	1	112691026001A	09/27/2011 20:55	David K Beck	2
06135	Lead	SW-846 6020	1	112691026001A	10/04/2011 05:10	Choon Y Tian	2500
06138	Molybdenum	SW-846 6020	1	112691026001C	09/27/2011 20:55	David K Beck	2
06139	Nickel	SW-846 6020	1	112691026001A	10/04/2011 05:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026001B	09/27/2011 20:55	David K Beck	2
06142	Silver	SW-846 6020	1	112691026001A	09/27/2011 20:55	David K Beck	2
06145	Thallium	SW-846 6020	1	112691026001A	10/04/2011 05:51	Choon Y Tian	10
06148	Vanadium	SW-846 6020	1	112691026001A	09/27/2011 20:55	David K Beck	2
06149	Zinc	SW-846 6020	1	112691026001A	09/27/2011 20:55	David K Beck	2
00159	Mercury	SW-846 7471A	1	112695711003	09/27/2011 19:20	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708005	09/27/2011 12:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708002	10/04/2011 13:57	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112775708002	10/04/2011 22:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026001	09/27/2011 12:48	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711003	09/27/2011 14:14	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11272621202A	09/30/2011 04:00	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11272621203A	09/29/2011 17:35	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11277243201A	10/05/2011 14:30	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11277102202A	10/04/2011 19:52	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11272621202A	09/29/2011 05:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11272621203A	09/29/2011 05:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11277102202A	10/04/2011 16:10	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11279039401A	10/06/2011 11:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11277243201A	10/04/2011 20:55	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162402A	09/28/2011 20:26	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-020-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA7-SS-0.0-0.5

LLI Sample # SW 6417429
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:00

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5104 SDG#: DE251-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(b)fluoranthene	205-99-2	21	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Fluoranthene	206-44-0	29	J	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-020-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA7-SS-0.0-0.5

LLI Sample # SW 6417429
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:00

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5104 SDG#: DE251-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	26	J	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: fluoranthene							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	1.3	J	0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	1.6	J	0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.68	U	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.83	J	0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	15	J	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	1.8		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.4	J	6.1	18		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	1.1	J	0.68	1.7		1
10138	Naphthalene	91-20-3	1.8		0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	1.3	J	0.68	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	8.3		0.63	1.7		1
10401	Dicamba	1918-00-9	0.43	J	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	78	U	78	260		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1

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Sample Description: **SL-020-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA7-SS-0.0-0.5

LLI Sample # SW 6417429
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:00

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5104 SDG#: DE251-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4,5-T	93-76-5	0.40	U	0.40	0.40		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17		1
	Reporting limits were raised due to interference from the sample matrix.							
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.1	U	2.1	5.1		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	1.7	U	1.7	3.5		1
01363	p,p-DDD	72-54-8	0.13	U	0.13	0.35		1
01363	p,p-DDE	72-55-9	0.57		0.067	0.35		1
01363	p,p-DDT	50-29-3	0.56		0.067	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.35		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.059	U	0.059	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.18	U	0.18	0.35		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.9	J	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	1.5	J	0.34	1.7		1
10225	PCB-1260	11096-82-5	2.0		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1

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Sample Description: **SL-020-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA7-SS-0.0-0.5

LLI Sample # SW 6417429
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:00

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5104 SDG#: DE251-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The sample was analyzed after the initial calibration with the ending calibration standard analyzed outside the 12 hour window. The sample was not reanalyzed since the hold time had expired.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	2.0		0.41	1.2		1
10199	EFH (C21-C30)	n.a.	17		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	38		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	1.2		0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,700		6.19	20.4		1
07914	Boron	7440-42-8	5.80		0.368	5.11		1
01650	Calcium	7440-70-2	2,780		2.56	20.4		1
01654	Iron	7439-89-6	22,100		2.67	20.4		1
01656	Lithium	7439-93-2	22.6		0.63	2.0		1
01657	Magnesium	7439-95-4	4,300		0.450	10.2		1
06958	Manganese	7439-96-5	1,130		0.184	2.56		5
10145	Phosphorus	7723-14-0	269		0.358	10.2		1
01662	Potassium	7440-09-7	2,890		11.6	51.1		1
01667	Sodium	7440-23-5	65.0	J	6.08	102		1
07968	Strontium	7440-24-6	17.8		0.0256	0.511		1
06969	Tin	7440-31-5	2.60	J	0.327	10.2		1
06970	Titanium	7440-32-6	1,280		0.0719	1.01		1
10146	Zirconium	7440-67-7	0.778	J	0.470	5.11		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0735	U	0.0735	0.199		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.97		0.0794	0.397		2
06126	Barium	7440-39-3	75.2		0.105	0.397		2
06127	Beryllium	7440-41-7	0.548		0.0159	0.0993		2
06128	Cadmium	7440-43-9	0.101		0.0437	0.0993		2

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Sample Description: SL-020-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA7-SS-0.0-0.5

LLI Sample # SW 6417429
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:00

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5104 SDG#: DE251-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	16.9	0.119	0.397		2
06132	Cobalt	7440-48-4	6.14	0.0199	0.0993		2
06133	Copper	7440-50-8	6.11	0.0794	0.397		2
06135	Lead	7439-92-1	6.99	0.0101	0.199		2
06138	Molybdenum	7439-98-7	0.416	0.0496	0.0993		2
06139	Nickel	7440-02-0	9.73	0.0993	0.397		2
06141	Selenium	7782-49-2	0.152 J	0.0576	0.397		2
06142	Silver	7440-22-4	0.0274 J	0.0141	0.0993		2
06145	Thallium	7440-28-0	0.204	0.0298	0.0993		2
06148	Vanadium	7440-62-2	35.4	0.0218	0.0993		2
06149	Zinc	7440-66-6	46.9	0.556	2.98		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0113 J	0.0069	0.0980		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7	0.82	1.0		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2 U	9.2	30.7		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21 U	0.21	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18 U	0.18	0.49		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.70	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.2	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-020-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA7-SS-0.0-0.5

LLI Sample # SW 6417429
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:00

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5104 SDG#: DE251-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLA026	10/05/2011 08:58	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11273SLA026	10/08/2011 11:51	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11273SLA026	10/01/2011 08:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLA026	10/03/2011 10:10	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112740020A	10/05/2011 15:00	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112770016A	10/05/2011 17:33	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112690020A	10/04/2011 23:05	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112690013A	10/01/2011 09:20	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112690020A	09/29/2011 12:15	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112690013A	09/29/2011 11:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112740020A	10/04/2011 02:55	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112770016A	10/05/2011 09:00	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112700014A	09/29/2011 08:47	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112770026A	10/04/2011 20:52	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112730009A	10/01/2011 22:09	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112730005A	10/04/2011 19:22	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112730005A	09/30/2011 13:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112730009A	09/30/2011 17:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112700014A	09/28/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112770026A	10/04/2011 16:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708005	10/03/2011 07:55	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112695708005	10/03/2011 07:55	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112695708005	10/03/2011 07:55	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112695708005	10/03/2011 07:55	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112695708005	10/03/2011 07:55	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112695708005	10/03/2011 07:55	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112695708005	10/03/2011 12:36	Eric L Eby	5
10145	Phosphorus	SW-846 6010B	1	112695708005	10/03/2011 07:55	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112695708005	10/03/2011 07:55	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112695708005	10/03/2011 07:55	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112695708005	10/03/2011 07:55	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112695708005	10/03/2011 07:55	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112775708002	10/05/2011 08:29	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112695708005	10/03/2011 07:55	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112691026001A	10/04/2011 05:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112691026001A	09/27/2011 21:32	David K Beck	2
06126	Barium	SW-846 6020	1	112691026001D	09/27/2011 21:32	David K Beck	2

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Sample Description: SL-020-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA7-SS-0.0-0.5

LLI Sample # SW 6417429
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:00

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5104 SDG#: DE251-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	112691026001A	09/27/2011 21:32	David K Beck	2
06128	Cadmium	SW-846 6020	1	112691026001A	09/27/2011 21:32	David K Beck	2
06131	Chromium	SW-846 6020	1	112691026001A	09/27/2011 21:32	David K Beck	2
06132	Cobalt	SW-846 6020	1	112691026001A	09/27/2011 21:32	David K Beck	2
06133	Copper	SW-846 6020	1	112691026001A	09/27/2011 21:32	David K Beck	2
06135	Lead	SW-846 6020	1	112691026001A	10/04/2011 05:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026001C	09/27/2011 21:32	David K Beck	2
06139	Nickel	SW-846 6020	1	112691026001A	10/04/2011 05:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026001B	09/27/2011 21:32	David K Beck	2
06142	Silver	SW-846 6020	1	112691026001A	09/27/2011 21:32	David K Beck	2
06145	Thallium	SW-846 6020	1	112691026001A	09/27/2011 21:32	David K Beck	2
06148	Vanadium	SW-846 6020	1	112691026001A	09/27/2011 21:32	David K Beck	2
06149	Zinc	SW-846 6020	1	112691026001A	09/27/2011 21:32	David K Beck	2
00159	Mercury	SW-846 7471A	1	112695711003	09/27/2011 19:21	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708005	09/27/2011 12:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708002	10/04/2011 13:57	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112775708002	10/04/2011 22:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026001	09/27/2011 12:48	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711003	09/27/2011 14:14	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11272621202A	09/30/2011 04:15	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11272621203A	09/29/2011 17:58	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11277243201A	10/05/2011 15:04	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11277102202A	10/04/2011 19:53	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11272621202A	09/29/2011 05:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11272621203A	09/29/2011 05:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11277102202A	10/04/2011 16:10	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11279039401A	10/06/2011 11:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11277243201A	10/04/2011 20:55	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162402A	09/28/2011 20:26	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-055-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA7-SS-0.0-0.5

LLI Sample # SW 6417430
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:00

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5105 SDG#: DE251-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	173	U	173	346		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Sample Description: **SL-055-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA7-SS-0.0-0.5

LLI Sample # SW 6417430
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:00

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5105 SDG#: DE251-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.82	J	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	1.1	J	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	4.6		0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	8.0		0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	14		0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	2.2		0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	11		0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	14	J	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	12		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	J	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	68		6.1	18		1
10138	Fluoranthene	206-44-0	17		0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.4		0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	1.3	J	0.68	1.7		1
10138	Naphthalene	91-20-3	2.9		0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	6.7		0.68	1.7		1
10138	Pyrene	129-00-0	12		0.68	1.7		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	83	U	83	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	83	U	83	250	10000000	1

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Sample Description: SL-055-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA7-SS-0.0-0.5

LLI Sample # SW 6417430
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:00

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5105 SDG#: DE251-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	120	10000000	1
10132	Nitroglycerin	55-63-0	830	U	830	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	83	U	83	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	83	U	83	120	10000000	1
10132	PETN	78-11-5	830	U	830	2,500	10000000	1
10132	RDX	121-82-4	52	U	52	120	10000000	1
10132	Tetryl	479-45-8	64	U	64	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	120	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.3		1
10401	2,4-DB	94-82-6	18	U	18	18		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8		1
10401	MCPA	94-74-6	340	U	340	340		1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260		1
10401	2,4,5-T	93-76-5	0.51	U	0.51	0.51		1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18		1
	Reporting limits were raised due to interference from the sample matrix.							
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	1,200	U	1,200	3,100		1
	Reporting limits were raised due to interference from the sample matrix.							
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.2	U	2.2	5.2		1

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Sample Description: SL-055-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA7-SS-0.0-0.5

LLI Sample # SW 6417430
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:00

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5105 SDG#: DE251-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	3.9		0.83	3.5		1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.35		1
01363	p,p-DDE	72-55-9	4.7		0.69	3.5		10
01363	p,p-DDT	50-29-3	11		0.69	3.5		10
01363	Delta BHC	319-86-8	0.072	J	0.037	0.17		1
01363	Dieldrin	60-57-1	0.31	U	0.31	0.35		1
01363	Endosulfan I	959-98-8	0.11	U	0.11	0.17		1
01363	Endosulfan II	33213-65-9	0.51	U	0.51	0.51		1
01363	Endosulfan Sulfate	1031-07-8	0.26	U	0.26	0.35		1
01363	Endrin	72-20-8	0.069	U	0.069	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.76	U	0.76	0.76		1
01363	Endrin Ketone	53494-70-5	0.70	U	0.70	0.70		1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	1.5	U	1.5	1.5		1
01363	Toxaphene	8001-35-2	26	U	26	26		1

The sample was injected following maintenance and a new calibration.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	8.6		1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1
10225	PCB-1254	11097-69-1	6.1		0.34	1.8		1
10225	PCB-1260	11096-82-5	7.0		0.41	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1

The sample was analyzed after the initial calibration with the ending calibration standard analyzed outside the 12 hour window. The sample was not reanalyzed since the hold time had expired.

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Sample Description: **SL-055-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA7-SS-0.0-0.5

LLI Sample # SW 6417430
LLI Group # 1268060
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E5105 SDG#: DE251-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.6		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.6		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.2	U	4.2	12		10
10199	EFH (C15-C20)	n.a.	15		4.2	12		10
10199	EFH (C21-C30)	n.a.	100		4.2	12		10
10199	EFH (C30 - C40)	n.a.	350		4.2	12		10
10199	EFH (C8-C11)	n.a.	4.2	U	4.2	12		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	8,810		6.30	20.8		1
07914	Boron	7440-42-8	10.8		0.375	5.20		1
01650	Calcium	7440-70-2	7,730		2.60	20.8		1
01654	Iron	7439-89-6	14,600		2.72	20.8		1
01656	Lithium	7439-93-2	19.5		0.65	2.1		1
01657	Magnesium	7439-95-4	3,360		0.458	10.4		1
06958	Manganese	7439-96-5	243		0.0375	0.520		1
10145	Phosphorus	7723-14-0	550		0.364	10.4		1
01662	Potassium	7440-09-7	3,200		11.8	52.0		1
01667	Sodium	7440-23-5	79.7	J	6.19	104		1
07968	Strontium	7440-24-6	32.5		0.0260	0.520		1
06969	Tin	7440-31-5	2.45	J	0.333	10.4		1
06970	Titanium	7440-32-6	1,020		0.0724	1.02		1
10146	Zirconium	7440-67-7	1.01	J	0.479	5.20		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0789	J	0.0762	0.206		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.10		0.0824	0.412		2
06126	Barium	7440-39-3	77.4		0.109	0.412		2
06127	Beryllium	7440-41-7	0.346		0.0165	0.103		2
06128	Cadmium	7440-43-9	0.274		0.0453	0.103		2
06131	Chromium	7440-47-3	11.3		0.124	0.412		2
06132	Cobalt	7440-48-4	3.38		0.0206	0.103		2
06133	Copper	7440-50-8	7.31		0.0824	0.412		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-055-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA7-SS-0.0-0.5

LLI Sample # SW 6417430
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:00

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5105 SDG#: DE251-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	15.9		0.0105	0.206		2
06138	Molybdenum	7439-98-7	0.484		0.0515	0.103		2
06139	Nickel	7440-02-0	7.13		0.103	0.412		2
06141	Selenium	7782-49-2	0.127	J	0.0598	0.412		2
06142	Silver	7440-22-4	0.0297	J	0.0146	0.103		2
06145	Thallium	7440-28-0	0.148		0.0309	0.103		2
06148	Vanadium	7440-62-2	21.4		0.0227	0.103		2
06149	Zinc	7440-66-6	97.9		0.577	3.09		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0409	J	0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.84	U	0.84	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	20.3		0.84	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	1.5		0.19	0.52		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.58		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	3.9		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-055-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA7-SS-0.0-0.5

LLI Sample # SW 6417430
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:00

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5105 SDG#: DE251-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11272SLB026	10/03/2011 23:12	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLA026	10/05/2011 09:23	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11273SLA026	10/08/2011 12:23	Brian K Graham	1
11630	NDMA Soil Microwave	SW-846 3546	1	11272SLB026	09/30/2011 08:30	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11273SLA026	10/01/2011 08:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLA026	10/03/2011 10:10	Denise L Trimby	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112690017A	10/05/2011 08:29	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670064A	09/29/2011 19:47	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112740020A	10/05/2011 15:28	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112770016A	10/05/2011 17:46	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112690020A	10/04/2011 23:19	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112690020A	10/07/2011 06:31	Melissa McDermott	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112690013A	10/03/2011 13:43	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112690020A	09/29/2011 12:15	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112690013A	09/29/2011 11:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112740020A	10/04/2011 02:55	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112770016A	10/05/2011 09:00	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670064A	09/28/2011 12:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	112690017A	09/29/2011 14:30	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112700014A	09/29/2011 09:05	Elizabeth J Marin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112700014A	09/30/2011 01:30	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112770026A	10/04/2011 21:05	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112730009A	10/02/2011 06:48	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112730005A	10/06/2011 00:53	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112730005A	09/30/2011 13:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112730009A	09/30/2011 17:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112700014A	09/28/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112770026A	10/04/2011 16:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708005	10/03/2011 07:59	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112695708005	10/03/2011 07:59	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112695708005	10/03/2011 07:59	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112695708005	10/03/2011 07:59	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112695708005	10/03/2011 07:59	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112695708005	10/03/2011 07:59	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112695708005	10/03/2011 07:59	Joanne M Gates	1

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Sample Description: **SL-055-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA7-SS-0.0-0.5

LLI Sample # SW 6417430
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:00

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5105 SDG#: DE251-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	112695708005	10/03/2011 07:59	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112695708005	10/03/2011 07:59	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112695708005	10/03/2011 07:59	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112695708005	10/03/2011 07:59	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112695708005	10/03/2011 07:59	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112775708002	10/05/2011 08:33	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112695708005	10/03/2011 07:59	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112691026001A	10/04/2011 05:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112691026001A	09/27/2011 21:35	David K Beck	2
06126	Barium	SW-846 6020	1	112691026001D	09/27/2011 21:35	David K Beck	2
06127	Beryllium	SW-846 6020	1	112691026001A	09/27/2011 21:35	David K Beck	2
06128	Cadmium	SW-846 6020	1	112691026001A	09/27/2011 21:35	David K Beck	2
06131	Chromium	SW-846 6020	1	112691026001A	09/27/2011 21:35	David K Beck	2
06132	Cobalt	SW-846 6020	1	112691026001A	09/27/2011 21:35	David K Beck	2
06133	Copper	SW-846 6020	1	112691026001A	09/27/2011 21:35	David K Beck	2
06135	Lead	SW-846 6020	1	112691026001A	10/04/2011 05:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026001C	09/27/2011 21:35	David K Beck	2
06139	Nickel	SW-846 6020	1	112691026001A	10/04/2011 05:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026001B	09/27/2011 21:35	David K Beck	2
06142	Silver	SW-846 6020	1	112691026001A	09/27/2011 21:35	David K Beck	2
06145	Thallium	SW-846 6020	1	112691026001A	09/27/2011 21:35	David K Beck	2
06148	Vanadium	SW-846 6020	1	112691026001A	09/27/2011 21:35	David K Beck	2
06149	Zinc	SW-846 6020	1	112691026001A	09/27/2011 21:35	David K Beck	2
00159	Mercury	SW-846 7471A	1	112695711003	09/27/2011 19:22	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708005	09/27/2011 12:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708002	10/04/2011 13:57	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112775708002	10/04/2011 22:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026001	09/27/2011 12:48	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711003	09/27/2011 14:14	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11272621202A	09/30/2011 04:30	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11272621202A	09/30/2011 16:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11272621203A	09/29/2011 18:21	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11277243201A	10/05/2011 15:10	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11277102202A	10/04/2011 19:54	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11272621202A	09/29/2011 05:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11272621203A	09/29/2011 05:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11277102202A	10/04/2011 16:10	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11279039401A	10/06/2011 11:45	Michelle L Lalli	1

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Sample Description: **SL-055-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA7-SS-0.0-0.5

LLI Sample # SW 6417430
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:00

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5105 SDG#: DE251-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11277243201A	10/04/2011 20:55	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11284162402A	10/11/2011 18:16	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-088-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA7-SS-0.0-0.5

LLI Sample # SW 6417431
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:55

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5106 SDG#: DE251-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	210	J	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	84	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1

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Sample Description: **SL-088-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-088-SA7-SS-0.0-0.5

LLI Sample # SW 6417431
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:55

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5106 SDG#: DE251-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	1.2	J	0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	3.1		0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	11		0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	J	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	3.0		0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.3	J	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	4.1		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Fluoranthene	206-44-0	4.3		0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.95	J	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	1.2	J	0.68	1.7		1
10138	Naphthalene	91-20-3	2.0		0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	2.8		0.68	1.7		1
10138	Pyrene	129-00-0	3.3		0.68	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	9.6		1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	3.1	U	3.1	3.1		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.64		0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	Reporting limits were raised due to interference from the sample matrix.							
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-088-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA7-SS-0.0-0.5

LLI Sample # SW 6417431
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:55

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5106 SDG#: DE251-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.1	U	2.1	5.1		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	6.5		0.82	3.5		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35		1
01363	p,p-DDE	72-55-9	1.1		0.067	0.35		1
01363	p,p-DDT	50-29-3	2.8		0.067	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.16	U	0.16	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.42	U	0.42	0.42		1
01363	Endosulfan Sulfate	1031-07-8	0.073	U	0.073	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.35	U	0.35	0.35		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35		1
01363	Heptachlor	76-44-8	0.11	J	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.14	U	0.14	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.33	U	0.33	0.35		1
01363	Toxaphene	8001-35-2	15	U	15	15		1

Reporting limits were raised due to interference from the sample matrix.

The DCB surrogate data is above the client specified limits of 20 -120%; however the recovery is within our in house statistical limits of 45-150%.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	4.7		1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	3.1		0.34	1.7		1
10225	PCB-1260	11096-82-5	2.0		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1

The sample was analyzed after the initial calibration with the ending calibration standard analyzed outside the 12 hour window. The sample was not

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Sample Description: **SL-088-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-088-SA7-SS-0.0-0.5

LLI Sample # SW 6417431
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:55

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5106 SDG#: DE251-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
reanalyzed since the hold time had expired.								
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	8.2	U	8.2	24		20
10199	EFH (C15-C20)	n.a.	8.2	U	8.2	24		20
10199	EFH (C21-C30)	n.a.	60		8.2	24		20
10199	EFH (C30 - C40)	n.a.	220		8.2	24		20
10199	EFH (C8-C11)	n.a.	8.2	U	8.2	24		20
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,500		6.11	20.2		1
07914	Boron	7440-42-8	6.21		0.363	5.05		1
01650	Calcium	7440-70-2	3,290		2.52	20.2		1
01654	Iron	7439-89-6	21,800		2.63	20.2		1
01656	Lithium	7439-93-2	26.7		0.63	2.0		1
01657	Magnesium	7439-95-4	5,710		0.444	10.1		1
06958	Manganese	7439-96-5	289		0.0363	0.505		1
10145	Phosphorus	7723-14-0	394		0.353	10.1		1
01662	Potassium	7440-09-7	3,400		11.4	50.5		1
01667	Sodium	7440-23-5	64.1	J	6.01	101		1
07968	Strontium	7440-24-6	16.9		0.0252	0.505		1
06969	Tin	7440-31-5	2.44	J	0.323	10.1		1
06970	Titanium	7440-32-6	1,410		0.0717	1.01		1
10146	Zirconium	7440-67-7	1.14	J	0.464	5.05		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.108	J	0.0718	0.194		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.01		0.0777	0.388		2
06126	Barium	7440-39-3	79.1		0.103	0.388		2
06127	Beryllium	7440-41-7	0.459		0.0155	0.0971		2
06128	Cadmium	7440-43-9	0.118		0.0427	0.0971		2
06131	Chromium	7440-47-3	21.5		0.116	0.388		2
06132	Cobalt	7440-48-4	5.73		0.0194	0.0971		2

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Sample Description: SL-088-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA7-SS-0.0-0.5

LLI Sample # SW 6417431
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:55

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5106 SDG#: DE251-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06133	Copper	7440-50-8	8.94		0.0777	0.388		2
06135	Lead	7439-92-1	14.2		0.0099	0.194		2
06138	Molybdenum	7439-98-7	0.449		0.0485	0.0971		2
06139	Nickel	7440-02-0	13.6		0.0971	0.388		2
06141	Selenium	7782-49-2	0.190	J	0.0563	0.388		2
06142	Silver	7440-22-4	0.0431	J	0.0138	0.0971		2
06145	Thallium	7440-28-0	0.241		0.0291	0.0971		2
06148	Vanadium	7440-62-2	42.1		0.0214	0.0971		2
06149	Zinc	7440-66-6	55.9		0.544	2.91		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0195	J	0.0069	0.0977		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.097	U	0.097	0.12		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.64		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.9		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-088-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-088-SA7-SS-0.0-0.5

LLI Sample # SW 6417431
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:55

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5106 SDG#: DE251-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLA026	10/05/2011 09:48	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11273SLA026	10/08/2011 12:55	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11273SLA026	10/01/2011 08:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLA026	10/03/2011 10:10	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112740020A	10/05/2011 15:55	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112770016A	10/05/2011 17:58	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112690020A	10/04/2011 23:33	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112690013A	10/01/2011 09:57	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112690020A	09/29/2011 12:15	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112690013A	09/29/2011 11:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112740020A	10/04/2011 02:55	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112770016A	10/05/2011 09:00	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112700014A	09/29/2011 09:23	Elizabeth J Marin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112700014A	09/30/2011 01:47	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112770026A	10/04/2011 21:44	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112730009A	10/02/2011 05:54	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112730005A	10/05/2011 23:42	Heather E Williams	20
11238	EFH Extraction - Soils	SW-846 3550B	1	112730005A	09/30/2011 13:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112730009A	09/30/2011 17:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112700014A	09/28/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112770026A	10/04/2011 16:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708005	10/03/2011 08:03	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112695708005	10/03/2011 08:03	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112695708005	10/03/2011 08:03	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112695708005	10/03/2011 08:03	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112695708005	10/03/2011 08:03	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112695708005	10/03/2011 08:03	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112695708005	10/03/2011 08:03	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112695708005	10/03/2011 08:03	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112695708005	10/03/2011 08:03	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112695708005	10/03/2011 08:03	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112695708005	10/03/2011 08:03	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112695708005	10/03/2011 08:03	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112775708002	10/05/2011 08:37	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112695708005	10/03/2011 08:03	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112691026001A	10/04/2011 05:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112691026001A	09/27/2011 21:38	David K Beck	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-088-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-088-SA7-SS-0.0-0.5

LLI Sample # SW 6417431
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:55

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5106 SDG#: DE251-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112691026001D	09/27/2011 21:38	David K Beck	2
06127	Beryllium	SW-846 6020	1	112691026001A	09/27/2011 21:38	David K Beck	2
06128	Cadmium	SW-846 6020	1	112691026001A	09/27/2011 21:38	David K Beck	2
06131	Chromium	SW-846 6020	1	112691026001A	09/27/2011 21:38	David K Beck	2
06132	Cobalt	SW-846 6020	1	112691026001A	09/27/2011 21:38	David K Beck	2
06133	Copper	SW-846 6020	1	112691026001A	09/27/2011 21:38	David K Beck	2
06135	Lead	SW-846 6020	1	112691026001A	10/04/2011 05:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026001C	09/27/2011 21:38	David K Beck	2
06139	Nickel	SW-846 6020	1	112691026001A	10/04/2011 05:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026001B	09/27/2011 21:38	David K Beck	2
06142	Silver	SW-846 6020	1	112691026001A	09/27/2011 21:38	David K Beck	2
06145	Thallium	SW-846 6020	1	112691026001A	09/27/2011 21:38	David K Beck	2
06148	Vanadium	SW-846 6020	1	112691026001A	09/27/2011 21:38	David K Beck	2
06149	Zinc	SW-846 6020	1	112691026001A	09/27/2011 21:38	David K Beck	2
00159	Mercury	SW-846 7471A	1	112695711003	09/27/2011 19:30	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708005	09/27/2011 12:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708002	10/04/2011 13:57	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112775708002	10/04/2011 22:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026001	09/27/2011 12:48	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711003	09/27/2011 14:14	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11272621202A	09/30/2011 04:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11272621203A	09/29/2011 18:44	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11277243201A	10/05/2011 15:24	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11277102202A	10/04/2011 19:55	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11272621202A	09/29/2011 05:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11272621203A	09/29/2011 05:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11277102202A	10/04/2011 16:10	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11279039401A	10/06/2011 11:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11277243201A	10/04/2011 20:55	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162402A	09/28/2011 20:26	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-101-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA7-SS-0.0-0.5

LLI Sample # SW 6417432
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 09:25

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5107 SDG#: DE251-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(g,h,i)perylene	191-24-2	33	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	24	J	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

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Sample Description: **SL-101-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-101-SA7-SS-0.0-0.5

LLI Sample # SW 6417432
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 09:25

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5107 SDG#: DE251-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.7		0.68	1.7		1
10138	Acenaphthylene	208-96-8	5.4		0.34	1.7		1
10138	Anthracene	120-12-7	14		0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	42		0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	42		0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	57		0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	29		0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	28		6.1	18		1
10138	Di-n-butylphthalate	84-74-2	59		6.1	18		1
10138	Chrysene	218-01-9	59		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	3.1		0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	270		6.1	18		1
10138	Fluoranthene	206-44-0	110		0.68	1.7		1
10138	Fluorene	86-73-7	5.6		0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	4.2		0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	3.7		0.68	1.7		1
10138	Naphthalene	91-20-3	3.1		0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	8.2	J	6.1	18		1
10138	Phenanthrene	85-01-8	81		0.68	1.7		1
10138	Pyrene	129-00-0	100		0.68	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	3.4		0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.17	U	0.17	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-101-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-101-SA7-SS-0.0-0.5

LLI Sample # SW 6417432
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 09:25

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5107 SDG#: DE251-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.064	J	0.035	0.17		1
01363	Chlordane	57-74-9	10		0.81	3.5		1
01363	p,p-DDD	72-54-8	0.78	U	0.78	0.78		1
01363	p,p-DDE	72-55-9	1.2	U	1.2	1.2		1
01363	p,p-DDT	50-29-3	9.5		0.67	3.5		10
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	1.2	U	1.2	1.2		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	1.5		0.067	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.38	U	0.38	0.38		1
01363	Endrin Aldehyde	7421-93-4	0.60	U	0.60	0.60		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35		1
01363	Heptachlor	76-44-8	0.072	J	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.81	U	0.81	0.81		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.85	U	0.85	0.85		1
01363	Toxaphene	8001-35-2	36	U	36	36		1

The samples were injected following maintenance and a new calibration.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.1	U	5.1	17		5
10225	Aroclor 5442	12642-23-8	5.1	U	5.1	17		5
10225	Aroclor 5460	11126-42-4	48		5.1	17		5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.6		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.6		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.6		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.6		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.6		5
10225	PCB-1254	11097-69-1	42		1.7	8.6		5
10225	PCB-1260	11096-82-5	70		2.0	8.6		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.6		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.6		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,400		6.09	20.1		1
07914	Boron	7440-42-8	5.86		0.363	5.04		1
01650	Calcium	7440-70-2	2,860		2.52	20.1		1
01654	Iron	7439-89-6	19,200		2.63	20.1		1
01656	Lithium	7439-93-2	22.6		0.62	2.0		1

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Sample Description: **SL-101-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-101-SA7-SS-0.0-0.5

LLI Sample # SW 6417432
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 09:25

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E5107 SDG#: DE251-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	3,610		0.443	10.1		1
06958	Manganese	7439-96-5	376		0.0363	0.504		1
10145	Phosphorus	7723-14-0	452		0.353	10.1		1
01662	Potassium	7440-09-7	3,450		11.4	50.4		1
01667	Sodium	7440-23-5	64.0	J	5.99	101		1
07968	Strontium	7440-24-6	15.2		0.0252	0.504		1
06969	Tin	7440-31-5	2.74	J	0.322	10.1		1
06970	Titanium	7440-32-6	1,080		0.0708	0.997		1
10146	Zirconium	7440-67-7	0.463	U	0.463	5.04		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.119	J	0.0745	0.201		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.23		0.0806	0.403		2
06126	Barium	7440-39-3	67.9		0.107	0.403		2
06127	Beryllium	7440-41-7	0.370		0.0161	0.101		2
06128	Cadmium	7440-43-9	5.01		0.0443	0.101		2
06131	Chromium	7440-47-3	21.0		0.121	0.403		2
06132	Cobalt	7440-48-4	4.53		0.0201	0.101		2
06133	Copper	7440-50-8	22.1		0.0806	0.403		2
06135	Lead	7439-92-1	47.1		0.0103	0.201		2
06138	Molybdenum	7439-98-7	0.534		0.0504	0.101		2
06139	Nickel	7440-02-0	13.2		0.101	0.403		2
06141	Selenium	7782-49-2	0.140	J	0.0584	0.403		2
06142	Silver	7440-22-4	0.135		0.0143	0.101		2
06145	Thallium	7440-28-0	0.203		0.0302	0.101		2
06148	Vanadium	7440-62-2	24.0		0.0222	0.101		2
06149	Zinc	7440-66-6	1,300		5.64	30.2		20
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0242	J	0.0068	0.0962		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.83	U	0.83	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	J	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.95		0.0100	0.0100		1

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Sample Description: **SL-101-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-101-SA7-SS-0.0-0.5

LLI Sample # SW 6417432
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 09:25

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Suite 210
Chantilly VA 20151

E5107 SDG#: DE251-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	1.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLA026	10/05/2011 10:13	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11273SLA026	10/08/2011 13:27	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11273SLA026	10/01/2011 08:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLA026	10/03/2011 10:10	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112740020A	10/05/2011 17:18	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112690020A	10/05/2011 03:27	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112690020A	10/07/2011 07:00	Melissa McDermott	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112690013A	10/01/2011 10:16	Jessica L Miller	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112690020A	09/29/2011 12:15	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112690013A	09/29/2011 11:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112740020A	10/04/2011 02:55	David V Hershey Jr	1
01643	Aluminum	SW-846 6010B	1	112695708005	10/03/2011 08:08	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112695708005	10/03/2011 08:08	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112695708005	10/03/2011 08:08	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112695708005	10/03/2011 08:08	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112695708005	10/03/2011 08:08	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112695708005	10/03/2011 08:08	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112695708005	10/03/2011 08:08	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112695708005	10/03/2011 08:08	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112695708005	10/03/2011 08:08	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112695708005	10/03/2011 08:08	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112695708005	10/03/2011 08:08	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112695708005	10/03/2011 08:08	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112775708002	10/05/2011 08:41	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112695708005	10/03/2011 08:08	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112691026001A	10/04/2011 05:17	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-101-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-101-SA7-SS-0.0-0.5

LLI Sample # SW 6417432
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 09:25

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5107 SDG#: DE251-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	112691026001A	09/27/2011 21:41	David K Beck	2
06126	Barium	SW-846 6020	1	112691026001D	09/27/2011 21:41	David K Beck	2
06127	Beryllium	SW-846 6020	1	112691026001A	09/27/2011 21:41	David K Beck	2
06128	Cadmium	SW-846 6020	1	112691026001A	09/27/2011 21:41	David K Beck	2
06131	Chromium	SW-846 6020	1	112691026001A	09/27/2011 21:41	David K Beck	2
06132	Cobalt	SW-846 6020	1	112691026001A	09/27/2011 21:41	David K Beck	2
06133	Copper	SW-846 6020	1	112691026001A	09/27/2011 21:41	David K Beck	2
06135	Lead	SW-846 6020	1	112691026001A	10/04/2011 05:17	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026001C	09/27/2011 21:41	David K Beck	2
06139	Nickel	SW-846 6020	1	112691026001A	10/04/2011 05:17	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026001B	09/27/2011 21:41	David K Beck	2
06142	Silver	SW-846 6020	1	112691026001A	09/27/2011 21:41	David K Beck	2
06145	Thallium	SW-846 6020	1	112691026001A	09/27/2011 21:41	David K Beck	2
06148	Vanadium	SW-846 6020	1	112691026001A	09/27/2011 21:41	David K Beck	2
06149	Zinc	SW-846 6020	1	112691026001A	10/04/2011 05:19	Choon Y Tian	20
00159	Mercury	SW-846 7471A	1	112695711003	09/27/2011 19:31	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708005	09/27/2011 12:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708002	10/04/2011 13:57	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112775708002	10/04/2011 22:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026001	09/27/2011 12:48	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711003	09/27/2011 14:14	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11272621202A	09/30/2011 05:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11272621203A	09/29/2011 19:07	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11277243201A	10/05/2011 15:44	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11272621202A	09/29/2011 05:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11272621203A	09/29/2011 05:50	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11279039401A	10/06/2011 11:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11277243201A	10/04/2011 20:55	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162402A	09/28/2011 20:26	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-151-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA7-SS-0.0-0.5

LLI Sample # SW 6417433
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 07:40

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5108 SDG#: DE251-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-151-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-151-SA7-SS-0.0-0.5

LLI Sample # SW 6417433
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 07:40

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5108 SDG#: DE251-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.47	J	0.34	1.7		1
10138	Anthracene	120-12-7	2.4		0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	16		0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	21		0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	38		0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	7.3		0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	16		0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	14	J	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	13	J	6.1	18		1
10138	Chrysene	218-01-9	28		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	2.3		0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	170		6.1	18		1
10138	Fluoranthene	206-44-0	42		0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	7.6		0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.70	J	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	1.1	J	0.68	1.7		1
10138	Naphthalene	91-20-3	1.7	J	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	7.4	J	6.1	18		1
10138	Phenanthrene	85-01-8	11		0.68	1.7		1
10138	Pyrene	129-00-0	33		0.68	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	9.7		0.64	1.7		1
10401	Dicamba	1918-00-9	0.81	J	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	78	U	78	260		1
10401	MCPP (Mecoprop)	93-65-2	160	U	160	260		1
10401	2,4,5-T	93-76-5	0.85		0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17		1
	Reporting limits were raised due to interference from the sample matrix.							
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-151-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA7-SS-0.0-0.5

LLI Sample # SW 6417433
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 07:40

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5108 SDG#: DE251-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.2	U	2.2	5.1		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.067	J	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.070	U	0.070	0.17		1
01363	Chlordane	57-74-9	4.9		0.81	3.5		1
01363	p,p-DDD	72-54-8	0.64	U	0.64	0.64		1
01363	p,p-DDE	72-55-9	2.6	U	2.6	2.6		1
01363	p,p-DDT	50-29-3	9.4		0.67	3.5		10
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.49	U	0.49	0.49		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.37	U	0.37	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.42	U	0.42	0.42		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.35		1
01363	Endrin Ketone	53494-70-5	0.88	U	0.88	0.88		1
01363	Heptachlor	76-44-8	0.064	J	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.22	U	0.22	0.22		1
01363	Methoxychlor	72-43-5	0.74	U	0.74	1.7		1
01363	Mirex	2385-85-5	1.5	U	1.5	1.5		1
01363	Toxaphene	8001-35-2	37	U	37	37		1

The samples were injected following maintenance and a new calibration.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	20	U	20	68		20
10225	Aroclor 5442	12642-23-8	20	U	20	68		20
10225	Aroclor 5460	11126-42-4	20	U	20	68		20
10225	PCB-1016	12674-11-2	6.8	U	6.8	35		20
10225	PCB-1221	11104-28-2	6.8	U	6.8	35		20
10225	PCB-1232	11141-16-5	6.8	U	6.8	35		20
10225	PCB-1242	53469-21-9	6.8	U	6.8	35		20
10225	PCB-1248	12672-29-6	6.8	U	6.8	35		20
10225	PCB-1254	11097-69-1	170		6.8	35		20
10225	PCB-1260	11096-82-5	170		8.0	35		20
10225	PCB-1262	37324-23-5	6.8	U	6.8	35		20
10225	PCB-1268	11100-14-4	6.8	U	6.8	35		20
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-151-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-151-SA7-SS-0.0-0.5

LLI Sample # SW 6417433
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 07:40

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5108 SDG#: DE251-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Methanol	67-56-1	100	U	100	510		1
	The sample was analyzed after the initial calibration with the ending calibration standard analyzed outside the 12 hour window. The sample was analyzed outside the client requested 7 day hold time; however was analyzed within the method's 14 day hold time. The sample was not reanalyzed since the hold time had expired.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	8.2	U	8.2	25		20
10199	EFH (C15-C20)	n.a.	9.2	J	8.2	25		20
10199	EFH (C21-C30)	n.a.	140		8.2	25		20
10199	EFH (C30 - C40)	n.a.	180		8.2	25		20
10199	EFH (C8-C11)	n.a.	8.2	U	8.2	25		20
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,500		6.20	20.5		1
07914	Boron	7440-42-8	7.40		0.369	5.12		1
01650	Calcium	7440-70-2	4,410		2.56	20.5		1
01654	Iron	7439-89-6	18,500		2.67	20.5		1
01656	Lithium	7439-93-2	25.3		0.64	2.0		1
01657	Magnesium	7439-95-4	3,790		0.451	10.2		1
06958	Manganese	7439-96-5	293		0.0369	0.512		1
10145	Phosphorus	7723-14-0	458		0.359	10.2		1
01662	Potassium	7440-09-7	3,640		11.6	51.2		1
01667	Sodium	7440-23-5	72.7	J	6.10	102		1
07968	Strontium	7440-24-6	23.2		0.0256	0.512		1
06969	Tin	7440-31-5	2.73	J	0.328	10.2		1
06970	Titanium	7440-32-6	1,160		0.0713	1.00		1
10146	Zirconium	7440-67-7	1.32	J	0.471	5.12		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.104	J	0.0736	0.199		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-151-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-151-SA7-SS-0.0-0.5

LLI Sample # SW 6417433
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 07:40

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5108 SDG#: DE251-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.60		0.0796	0.398		2
06126	Barium	7440-39-3	87.9		0.105	0.398		2
06127	Beryllium	7440-41-7	0.471		0.0159	0.0995		2
06128	Cadmium	7440-43-9	0.459		0.0438	0.0995		2
06131	Chromium	7440-47-3	16.7		0.119	0.398		2
06132	Cobalt	7440-48-4	4.25		0.0199	0.0995		2
06133	Copper	7440-50-8	8.53		0.0796	0.398		2
06135	Lead	7439-92-1	33.1		0.0101	0.199		2
06138	Molybdenum	7439-98-7	0.464		0.0497	0.0995		2
06139	Nickel	7440-02-0	8.70		0.0995	0.398		2
06141	Selenium	7782-49-2	0.118	J	0.0577	0.398		2
06142	Silver	7440-22-4	0.228		0.0141	0.0995		2
06145	Thallium	7440-28-0	0.231		0.0298	0.0995		2
06148	Vanadium	7440-62-2	27.1		0.0219	0.0995		2
06149	Zinc	7440-66-6	223		1.39	7.46		5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0600	J	0.0070	0.0995		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.60	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.75		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-151-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA7-SS-0.0-0.5

LLI Sample # SW 6417433
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 07:40

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5108 SDG#: DE251-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLA026	10/05/2011 10:38	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11273SLA026	10/09/2011 09:14	Chad A Moline	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11273SLA026	10/01/2011 08:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLA026	10/03/2011 10:10	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112740020A	10/05/2011 17:45	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112770016A	10/05/2011 18:11	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112690020A	10/05/2011 03:42	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112690020A	10/07/2011 07:14	Melissa McDermott	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112690013A	10/01/2011 10:35	Jessica L Miller	20
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112690020A	09/29/2011 12:15	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112690013A	09/29/2011 11:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112740020A	10/04/2011 02:55	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112770016A	10/05/2011 09:00	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112700014A	09/29/2011 09:40	Elizabeth J Marin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112700014A	09/30/2011 02:03	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112770026A	10/04/2011 21:57	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112730009A	10/02/2011 06:21	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112730005A	10/06/2011 00:06	Heather E Williams	20
11238	EFH Extraction - Soils	SW-846 3550B	1	112730005A	09/30/2011 13:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112730009A	09/30/2011 17:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112700014A	09/28/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112770026A	10/04/2011 16:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708005	10/03/2011 08:12	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112695708005	10/03/2011 08:12	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112695708005	10/03/2011 08:12	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112695708005	10/03/2011 08:12	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112695708005	10/03/2011 08:12	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112695708005	10/03/2011 08:12	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112695708005	10/03/2011 08:12	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112695708005	10/03/2011 08:12	Joanne M Gates	1

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Sample Description: SL-151-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-151-SA7-SS-0.0-0.5

LLI Sample # SW 6417433
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 07:40

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5108 SDG#: DE251-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	112695708005	10/03/2011 08:12	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112695708005	10/03/2011 08:12	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112695708005	10/03/2011 08:12	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112695708005	10/03/2011 08:12	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112775708002	10/05/2011 08:45	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112695708005	10/03/2011 08:12	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112691026001A	10/04/2011 05:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112691026001A	09/27/2011 21:44	David K Beck	2
06126	Barium	SW-846 6020	1	112691026001D	09/27/2011 21:44	David K Beck	2
06127	Beryllium	SW-846 6020	1	112691026001A	09/27/2011 21:44	David K Beck	2
06128	Cadmium	SW-846 6020	1	112691026001A	09/27/2011 21:44	David K Beck	2
06131	Chromium	SW-846 6020	1	112691026001A	09/27/2011 21:44	David K Beck	2
06132	Cobalt	SW-846 6020	1	112691026001A	09/27/2011 21:44	David K Beck	2
06133	Copper	SW-846 6020	1	112691026001A	09/27/2011 21:44	David K Beck	2
06135	Lead	SW-846 6020	1	112691026001A	10/04/2011 05:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026001C	09/27/2011 21:44	David K Beck	2
06139	Nickel	SW-846 6020	1	112691026001A	10/04/2011 05:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026001B	09/27/2011 21:44	David K Beck	2
06142	Silver	SW-846 6020	1	112691026001A	09/27/2011 21:44	David K Beck	2
06145	Thallium	SW-846 6020	1	112691026001A	09/27/2011 21:44	David K Beck	2
06148	Vanadium	SW-846 6020	1	112691026001A	09/27/2011 21:44	David K Beck	2
06149	Zinc	SW-846 6020	1	112691026001A	10/04/2011 05:22	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	112695711003	09/27/2011 19:32	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708005	09/27/2011 12:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708002	10/04/2011 13:57	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112775708002	10/04/2011 22:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026001	09/27/2011 12:48	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711003	09/27/2011 14:14	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11272621202A	09/30/2011 05:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11272621203A	09/29/2011 19:30	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11277243201A	10/05/2011 15:57	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11277102202A	10/04/2011 19:56	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11272621202A	09/29/2011 05:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11272621203A	09/29/2011 05:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11277102202A	10/04/2011 16:10	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11279039401A	10/06/2011 11:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11277243201A	10/04/2011 20:55	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162402A	09/28/2011 20:26	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-023-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA7-SS-0.0-0.5

LLI Sample # SW 6417434
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:15

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5109 SDG#: DE251-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	470		17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-023-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA7-SS-0.0-0.5

LLI Sample # SW 6417434
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:15

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5109 SDG#: DE251-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	1.2	J	0.34	1.7		1
10138	Anthracene	120-12-7	0.68	J	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	5.0		0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	6.0		0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	14		0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	2.0		0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	8.8		0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	8.7	J	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	7.9		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Fluoranthene	206-44-0	13		0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	2.0		0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.96	J	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	1.8		0.68	1.7		1
10138	Naphthalene	91-20-3	2.7		0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	3.3		0.68	1.7		1
10138	Pyrene	129-00-0	8.5		0.68	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	11		0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.23	U	0.23	0.23		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	Reporting limits were raised due to interference from the sample matrix.							
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-023-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA7-SS-0.0-0.5

LLI Sample # SW 6417434
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:15

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5109 SDG#: DE251-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.1	U	2.1	5.1		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.12	J	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.059	J	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	2.6	U	2.6	3.5		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35		1
01363	p,p-DDE	72-55-9	11		0.34	1.7		5
01363	p,p-DDT	50-29-3	14		0.34	1.7		5
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.44	U	0.44	0.44		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.26	U	0.26	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.22	U	0.22	0.35		1
01363	Endrin	72-20-8	0.077	U	0.077	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.74	U	0.74	0.74		1
01363	Endrin Ketone	53494-70-5	0.37	U	0.37	0.37		1
01363	Heptachlor	76-44-8	0.082	U	0.082	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.22	U	0.22	0.22		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.35		1
01363	Toxaphene	8001-35-2	13	U	13	13		1

The samples were injected following maintenance and a new calibration.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The DCB surrogate data is above the client specified limits of 20 -120%; however the recovery is within our in house statistical limits of 45-150%.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	12		1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	9.8		0.34	1.7		1
10225	PCB-1260	11096-82-5	6.2		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-023-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA7-SS-0.0-0.5

LLI Sample # SW 6417434
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:15

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5109 SDG#: DE251-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Methanol	67-56-1	100	U	100	510		1
	The sample was analyzed after the initial calibration with the ending calibration standard analyzed outside the 12 hour window. The sample was analyzed outside the client requested 7 day hold time; however was analyzed within the method's 14 day hold time. The sample was not reanalyzed since the hold time had expired.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.0	U	2.0	6.1		5
10199	EFH (C15-C20)	n.a.	11		2.0	6.1		5
10199	EFH (C21-C30)	n.a.	32		2.0	6.1		5
10199	EFH (C30 - C40)	n.a.	88		2.0	6.1		5
10199	EFH (C8-C11)	n.a.	2.0	U	2.0	6.1		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,700		6.10	20.2		1
07914	Boron	7440-42-8	6.54		0.363	5.04		1
01650	Calcium	7440-70-2	3,750		2.52	20.2		1
01654	Iron	7439-89-6	18,200		2.63	20.2		1
01656	Lithium	7439-93-2	25.5		0.63	2.0		1
01657	Magnesium	7439-95-4	4,290		0.444	10.1		1
06958	Manganese	7439-96-5	260		0.0363	0.504		1
10145	Phosphorus	7723-14-0	433		0.353	10.1		1
01662	Potassium	7440-09-7	3,190		11.4	50.4		1
01667	Sodium	7440-23-5	67.3	J	6.00	101		1
07968	Strontium	7440-24-6	16.4		0.0252	0.504		1
06969	Tin	7440-31-5	2.57	J	0.323	10.1		1
06970	Titanium	7440-32-6	1,210		0.0695	0.979		1
10146	Zirconium	7440-67-7	0.995	J	0.464	5.04		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0718	U	0.0718	0.194		2

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Sample Description: **SL-023-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA7-SS-0.0-0.5

LLI Sample # SW 6417434
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:15

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5109 SDG#: DE251-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.49		0.0776	0.388		2
06126	Barium	7440-39-3	71.0		0.103	0.388		2
06127	Beryllium	7440-41-7	0.396		0.0155	0.0970		2
06128	Cadmium	7440-43-9	0.166		0.0427	0.0970		2
06131	Chromium	7440-47-3	13.3		0.116	0.388		2
06132	Cobalt	7440-48-4	4.44		0.0194	0.0970		2
06133	Copper	7440-50-8	7.20		0.0776	0.388		2
06135	Lead	7439-92-1	12.1		0.0099	0.194		2
06138	Molybdenum	7439-98-7	0.410		0.0485	0.0970		2
06139	Nickel	7440-02-0	8.08		0.0970	0.388		2
06141	Selenium	7782-49-2	0.100	J	0.0563	0.388		2
06142	Silver	7440-22-4	0.0276	J	0.0138	0.0970		2
06145	Thallium	7440-28-0	0.215		0.0291	0.0970		2
06148	Vanadium	7440-62-2	26.6		0.0213	0.0970		2
06149	Zinc	7440-66-6	61.4		0.543	2.91		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0513	J	0.0068	0.0974		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.40		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-023-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA7-SS-0.0-0.5

LLI Sample # SW 6417434
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:15

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5109 SDG#: DE251-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLA026	10/05/2011 11:03	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11273SLA026	10/09/2011 09:47	Chad A Moline	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11273SLA026	10/01/2011 08:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLA026	10/03/2011 10:10	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112740020A	10/05/2011 18:13	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112770016A	10/05/2011 18:37	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112690020A	10/05/2011 01:59	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112690020A	10/05/2011 02:14	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112690013A	10/01/2011 10:54	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112690020A	09/29/2011 12:15	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112690013A	09/29/2011 11:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112740020A	10/04/2011 02:55	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112770016A	10/05/2011 09:00	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112700014A	09/29/2011 09:58	Elizabeth J Marin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112700014A	09/30/2011 02:20	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112770026A	10/04/2011 22:09	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112730009A	10/02/2011 04:04	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112730005A	10/05/2011 23:18	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112730005A	09/30/2011 13:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112730009A	09/30/2011 17:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112700014A	09/28/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112770026A	10/04/2011 16:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708005	10/03/2011 08:16	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112695708005	10/03/2011 08:16	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112695708005	10/03/2011 08:16	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112695708005	10/03/2011 08:16	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112695708005	10/03/2011 08:16	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112695708005	10/03/2011 08:16	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112695708005	10/03/2011 08:16	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112695708005	10/03/2011 08:16	Joanne M Gates	1

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Sample Description: **SL-023-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA7-SS-0.0-0.5

LLI Sample # SW 6417434
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:15

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5109 SDG#: DE251-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	112695708005	10/03/2011 08:16	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112695708005	10/03/2011 08:16	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112695708005	10/03/2011 08:16	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112695708005	10/03/2011 08:16	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112775708002	10/05/2011 08:49	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112695708005	10/03/2011 08:16	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112691026001A	10/04/2011 05:28	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112691026001A	09/27/2011 21:47	David K Beck	2
06126	Barium	SW-846 6020	1	112691026001D	09/27/2011 21:47	David K Beck	2
06127	Beryllium	SW-846 6020	1	112691026001A	09/27/2011 21:47	David K Beck	2
06128	Cadmium	SW-846 6020	1	112691026001A	09/27/2011 21:47	David K Beck	2
06131	Chromium	SW-846 6020	1	112691026001A	09/27/2011 21:47	David K Beck	2
06132	Cobalt	SW-846 6020	1	112691026001A	09/27/2011 21:47	David K Beck	2
06133	Copper	SW-846 6020	1	112691026001A	09/27/2011 21:47	David K Beck	2
06135	Lead	SW-846 6020	1	112691026001A	10/04/2011 05:28	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026001C	09/27/2011 21:47	David K Beck	2
06139	Nickel	SW-846 6020	1	112691026001A	10/04/2011 05:28	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026001B	09/27/2011 21:47	David K Beck	2
06142	Silver	SW-846 6020	1	112691026001A	09/27/2011 21:47	David K Beck	2
06145	Thallium	SW-846 6020	1	112691026001A	09/27/2011 21:47	David K Beck	2
06148	Vanadium	SW-846 6020	1	112691026001A	09/27/2011 21:47	David K Beck	2
06149	Zinc	SW-846 6020	1	112691026001A	09/27/2011 21:47	David K Beck	2
00159	Mercury	SW-846 7471A	1	112695711003	09/27/2011 19:33	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708005	09/27/2011 12:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708002	10/04/2011 13:57	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112775708002	10/04/2011 22:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026001	09/27/2011 12:48	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711003	09/27/2011 14:14	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11272621202A	09/30/2011 06:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11272621203A	09/29/2011 19:53	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11277243201A	10/05/2011 16:04	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11277102202A	10/04/2011 19:58	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11272621202A	09/29/2011 05:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11272621203A	09/29/2011 05:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11277102202A	10/04/2011 16:10	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11279039401A	10/06/2011 11:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11277243201A	10/04/2011 20:55	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162402A	09/28/2011 20:26	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-141-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA7-SS-0.0-0.5

LLI Sample # SW 6417435
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:45

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5110 SDG#: DE251-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1

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SSFL Area IV Collocated Soil Sampling
SL-141-SA7-SS-0.0-0.5

LLI Sample # SW 6417435
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:45

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5110 SDG#: DE251-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	J	0.67	1.7		1
10138	Acenaphthylene	208-96-8	1.3	J	0.33	1.7		1
10138	Anthracene	120-12-7	0.51	J	0.33	1.7		1
10138	Benzo(a)anthracene	56-55-3	4.7		0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	4.9		0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	13		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	1.8		0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	3.3		0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	6.6		0.33	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	25		6.0	18		1
10138	Fluoranthene	206-44-0	11		0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.8		0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.76	J	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	1.4	J	0.67	1.7		1
10138	Naphthalene	91-20-3	2.2		0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	2.3		0.67	1.7		1
10138	Pyrene	129-00-0	6.9		0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	8.4		0.62	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.35	U	0.35	0.35		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	Reporting limits were raised due to interference from the sample matrix.							
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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SL-141-SA7-SS-0.0-0.5

LLI Sample # SW 6417435
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Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
Suite 210
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E5110 SDG#: DE251-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.1	U	2.1	5.0		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.16	U	0.16	0.34		1
01363	p,p-DDE	72-55-9	14		0.33	1.7		5
01363	p,p-DDT	50-29-3	21		0.67	3.4		10
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.12	U	0.12	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.12	U	0.12	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.46		0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.23	J	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.17	U	0.17	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	9.1		2.2	6.7		1

The sample was injected following maintenance and a new calibration.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.
The DCB surrogate data is above the client specified limits of 20 -120%; however the recovery is within our in house statistical limits of 45-150%.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	12		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	11		0.33	1.7		1
10225	PCB-1260	11096-82-5	6.7		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1

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E5110 SDG#: DE251-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Methanol	67-56-1	180	J	100	500		1
	The sample was analyzed after the initial calibration with the ending calibration standard analyzed outside the 12 hour window. The sample was analyzed outside the client requested 7 day hold time; however was analyzed within the method's 14 day hold time. The sample was not reanalyzed since the hold time had expired.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	4.8		0.40	1.2		1
10199	EFH (C21-C30)	n.a.	12		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	43		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.40	U	0.40	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,700		6.11	20.2		1
07914	Boron	7440-42-8	5.04	J	0.363	5.05		1
01650	Calcium	7440-70-2	2,960		2.52	20.2		1
01654	Iron	7439-89-6	16,700		2.63	20.2		1
01656	Lithium	7439-93-2	21.4		0.63	2.0		1
01657	Magnesium	7439-95-4	4,080		0.444	10.1		1
06958	Manganese	7439-96-5	231		0.0363	0.505		1
10145	Phosphorus	7723-14-0	385		0.353	10.1		1
01662	Potassium	7440-09-7	2,490		11.4	50.5		1
01667	Sodium	7440-23-5	54.9	J	6.01	101		1
07968	Strontium	7440-24-6	10.8		0.0252	0.505		1
06969	Tin	7440-31-5	2.28	J	0.323	10.1		1
06970	Titanium	7440-32-6	1,210		0.0717	1.01		1
10146	Zirconium	7440-67-7	0.910	J	0.464	5.05		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0807	J	0.0739	0.200		2

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E5110 SDG#: DE251-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.02		0.0799	0.400		2
06126	Barium	7440-39-3	75.3		0.106	0.400		2
06127	Beryllium	7440-41-7	0.424		0.0160	0.0999		2
06128	Cadmium	7440-43-9	0.141		0.0440	0.0999		2
06131	Chromium	7440-47-3	17.2		0.120	0.400		2
06132	Cobalt	7440-48-4	5.38		0.0200	0.0999		2
06133	Copper	7440-50-8	8.63		0.0799	0.400		2
06135	Lead	7439-92-1	8.83		0.0102	0.200		2
06138	Molybdenum	7439-98-7	0.327		0.0500	0.0999		2
06139	Nickel	7440-02-0	9.53		0.0999	0.400		2
06141	Selenium	7782-49-2	0.133	J	0.0580	0.400		2
06142	Silver	7440-22-4	0.0270	J	0.0142	0.0999		2
06145	Thallium	7440-28-0	0.210		0.0300	0.0999		2
06148	Vanadium	7440-62-2	32.2		0.0220	0.0999		2
06149	Zinc	7440-66-6	58.0		0.560	3.00		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0688	J	0.0069	0.0988		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80	U	0.80	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.02		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.92		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-141-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA7-SS-0.0-0.5

LLI Sample # SW 6417435
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Project Name: SSFL Area IV Collocated Soil Sampling

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E5110 SDG#: DE251-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLA026	10/05/2011 11:28	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11273SLA026	10/09/2011 10:20	Chad A Moline	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11273SLA026	10/01/2011 08:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLA026	10/03/2011 10:10	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112740020A	10/05/2011 18:40	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112770016A	10/05/2011 18:49	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112690020A	10/05/2011 02:28	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112690020A	10/05/2011 02:43	Melissa McDermott	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	112690020A	10/07/2011 06:45	Melissa McDermott	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112690013A	10/01/2011 11:13	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112690020A	09/29/2011 12:15	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112690013A	09/29/2011 11:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112740020A	10/04/2011 02:55	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112770016A	10/05/2011 09:00	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112700014A	09/30/2011 02:36	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112770026A	10/04/2011 22:22	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112730009A	10/02/2011 02:42	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112730005A	10/04/2011 20:33	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112730005A	09/30/2011 13:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112730009A	09/30/2011 17:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112700014A	09/28/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112770026A	10/04/2011 16:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708005	10/03/2011 08:20	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112695708005	10/03/2011 08:20	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112695708005	10/03/2011 08:20	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112695708005	10/03/2011 08:20	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112695708005	10/03/2011 08:20	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112695708005	10/03/2011 08:20	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112695708005	10/03/2011 08:20	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112695708005	10/03/2011 08:20	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-141-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-141-SA7-SS-0.0-0.5

LLI Sample # SW 6417435
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:45

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5110 SDG#: DE251-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	112695708005	10/03/2011 08:20	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112695708005	10/03/2011 08:20	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112695708005	10/03/2011 08:20	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112695708005	10/03/2011 08:20	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112775708002	10/05/2011 08:53	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112695708005	10/03/2011 08:20	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112691026001A	10/04/2011 05:30	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112691026001A	09/27/2011 21:50	David K Beck	2
06126	Barium	SW-846 6020	1	112691026001D	09/27/2011 21:50	David K Beck	2
06127	Beryllium	SW-846 6020	1	112691026001A	09/27/2011 21:50	David K Beck	2
06128	Cadmium	SW-846 6020	1	112691026001A	09/27/2011 21:50	David K Beck	2
06131	Chromium	SW-846 6020	1	112691026001A	09/27/2011 21:50	David K Beck	2
06132	Cobalt	SW-846 6020	1	112691026001A	09/27/2011 21:50	David K Beck	2
06133	Copper	SW-846 6020	1	112691026001A	09/27/2011 21:50	David K Beck	2
06135	Lead	SW-846 6020	1	112691026001A	10/04/2011 05:30	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026001C	09/27/2011 21:50	David K Beck	2
06139	Nickel	SW-846 6020	1	112691026001A	10/04/2011 05:30	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026001B	09/27/2011 21:50	David K Beck	2
06142	Silver	SW-846 6020	1	112691026001A	09/27/2011 21:50	David K Beck	2
06145	Thallium	SW-846 6020	1	112691026001A	09/27/2011 21:50	David K Beck	2
06148	Vanadium	SW-846 6020	1	112691026001A	09/27/2011 21:50	David K Beck	2
06149	Zinc	SW-846 6020	1	112691026001A	09/27/2011 21:50	David K Beck	2
00159	Mercury	SW-846 7471A	1	112695711003	09/27/2011 19:34	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708005	09/27/2011 12:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708002	10/04/2011 13:57	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112775708002	10/04/2011 22:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026001	09/27/2011 12:48	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711003	09/27/2011 14:14	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11272621202A	09/30/2011 06:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11272621203A	09/29/2011 20:16	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11277243201A	10/05/2011 16:24	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11277102202A	10/04/2011 19:59	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11272621202A	09/29/2011 05:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11272621203A	09/29/2011 05:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11277102202A	10/04/2011 16:10	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11279039401B	10/06/2011 11:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11277243201A	10/04/2011 20:55	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162402A	09/28/2011 20:26	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-142-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA7-SS-0.0-0.5

LLI Sample # SW 6417436
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:00

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5111 SDG#: DE251-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,900		17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	20	J	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-142-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-142-SA7-SS-0.0-0.5

LLI Sample # SW 6417436
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:00

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5111 SDG#: DE251-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.57	J	0.34	1.7		1
10138	Anthracene	120-12-7	0.42	J	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	2.6		0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	3.5		0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	6.6		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	1.3	J	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	8.3		0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	5.1		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Fluoranthene	206-44-0	7.2		0.67	1.7		1
10138	Fluorene	86-73-7	2.7		0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.3	J	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.90	J	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	1.8		0.67	1.7		1
10138	Naphthalene	91-20-3	2.9		0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Phenanthrene	85-01-8	2.0		0.67	1.7		1
10138	Pyrene	129-00-0	4.5		0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	8.2		0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.53		0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.1	U	2.1	5.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-142-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-142-SA7-SS-0.0-0.5

LLI Sample # SW 6417436
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:00

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5111 SDG#: DE251-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	3.8		0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	7.8		0.33	1.7		5
01363	p,p-DDT	50-29-3	8.2		0.33	1.7		5
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.12	U	0.12	0.34		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.10	U	0.10	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.69	U	0.69	0.69		1
01363	Endrin Ketone	53494-70-5	0.30	U	0.30	0.34		1
01363	Heptachlor	76-44-8	0.098	J	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.096	U	0.096	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	13	U	13	13		1

The samples were injected following maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	16		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1
10225	PCB-1260	11096-82-5	6.9		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1

GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1

The sample was analyzed after the initial calibration with the ending calibration standard analyzed outside the 12 hour window. The sample was analyzed outside the client requested 7 day hold time; however was analyzed within the method's 14 day hold time.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-142-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-142-SA7-SS-0.0-0.5

LLI Sample # SW 6417436
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:00

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5111 SDG#: DE251-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
The sample was not reanalyzed since the hold time had expired.								
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	8.1	U	8.1	24		20
10199	EFH (C15-C20)	n.a.	12	J	8.1	24		20
10199	EFH (C21-C30)	n.a.	61		8.1	24		20
10199	EFH (C30 - C40)	n.a.	230		8.1	24		20
10199	EFH (C8-C11)	n.a.	8.1	U	8.1	24		20
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,900		6.01	19.9		1
07914	Boron	7440-42-8	6.19		0.358	4.97		1
01650	Calcium	7440-70-2	3,960		2.48	19.9		1
01654	Iron	7439-89-6	14,900		2.59	19.9		1
01656	Lithium	7439-93-2	21.5		0.62	2.0		1
01657	Magnesium	7439-95-4	3,620		0.437	9.93		1
06958	Manganese	7439-96-5	231		0.0358	0.497		1
10145	Phosphorus	7723-14-0	402		0.348	9.93		1
01662	Potassium	7440-09-7	2,670		11.2	49.7		1
01667	Sodium	7440-23-5	69.9	J	5.91	99.3		1
07968	Strontium	7440-24-6	21.6		0.0248	0.497		1
06969	Tin	7440-31-5	2.21	J	0.318	9.93		1
06970	Titanium	7440-32-6	1,120		0.0705	0.993		1
10146	Zirconium	7440-67-7	1.04	J	0.457	4.97		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0776	J	0.0721	0.195		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.12		0.0779	0.390		2
06126	Barium	7440-39-3	69.9		0.103	0.390		2
06127	Beryllium	7440-41-7	0.374		0.0156	0.0974		2
06128	Cadmium	7440-43-9	0.150		0.0429	0.0974		2
06131	Chromium	7440-47-3	13.0		0.117	0.390		2
06132	Cobalt	7440-48-4	4.32		0.0195	0.0974		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-142-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-142-SA7-SS-0.0-0.5

LLI Sample # SW 6417436
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:00

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5111 SDG#: DE251-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06133	Copper	7440-50-8	7.09		0.0779	0.390		2
06135	Lead	7439-92-1	10.6		0.0099	0.195		2
06138	Molybdenum	7439-98-7	0.370		0.0487	0.0974		2
06139	Nickel	7440-02-0	7.89		0.0974	0.390		2
06141	Selenium	7782-49-2	0.104	J	0.0565	0.390		2
06142	Silver	7440-22-4	0.0273	J	0.0138	0.0974		2
06145	Thallium	7440-28-0	0.191		0.0292	0.0974		2
06148	Vanadium	7440-62-2	25.8		0.0214	0.0974		2
06149	Zinc	7440-66-6	59.1		0.546	2.92		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0433	J	0.0070	0.0989		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80	U	0.80	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.49		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.85		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-142-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA7-SS-0.0-0.5

LLI Sample # SW 6417436
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:00

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5111 SDG#: DE251-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLA026	10/05/2011 11:53	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11273SLA026	10/09/2011 10:52	Chad A Moline	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11273SLA026	10/01/2011 08:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLA026	10/03/2011 10:10	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112740020A	10/05/2011 19:08	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112770016A	10/05/2011 19:02	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112690020A	10/05/2011 02:58	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112690020A	10/05/2011 03:12	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112690013A	10/01/2011 12:47	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112690020A	09/29/2011 12:15	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112690013A	09/29/2011 11:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112740020A	10/04/2011 02:55	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112770016A	10/05/2011 09:00	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112700014A	09/29/2011 10:33	Elizabeth J Marin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112700014A	09/30/2011 02:53	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112770026A	10/04/2011 22:35	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112730009A	10/02/2011 04:59	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112730005A	10/06/2011 00:30	Heather E Williams	20
11238	EFH Extraction - Soils	SW-846 3550B	1	112730005A	09/30/2011 13:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112730009A	09/30/2011 17:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112700014A	09/28/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112770026A	10/04/2011 16:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708005	10/03/2011 08:24	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112695708005	10/03/2011 08:24	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112695708005	10/03/2011 08:24	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112695708005	10/03/2011 08:24	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112695708005	10/03/2011 08:24	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112695708005	10/03/2011 08:24	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112695708005	10/03/2011 08:24	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112695708005	10/03/2011 08:24	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112695708005	10/03/2011 08:24	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112695708005	10/03/2011 08:24	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112695708005	10/03/2011 08:24	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112695708005	10/03/2011 08:24	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112775708002	10/05/2011 08:57	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112695708005	10/03/2011 08:24	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112691026001A	10/04/2011 05:31	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-142-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-142-SA7-SS-0.0-0.5

LLI Sample # SW 6417436
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:00

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5111 SDG#: DE251-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	112691026001A	09/27/2011 21:53	David K Beck	2
06126	Barium	SW-846 6020	1	112691026001D	09/27/2011 21:53	David K Beck	2
06127	Beryllium	SW-846 6020	1	112691026001A	09/27/2011 21:53	David K Beck	2
06128	Cadmium	SW-846 6020	1	112691026001A	09/27/2011 21:53	David K Beck	2
06131	Chromium	SW-846 6020	1	112691026001A	09/27/2011 21:53	David K Beck	2
06132	Cobalt	SW-846 6020	1	112691026001A	09/27/2011 21:53	David K Beck	2
06133	Copper	SW-846 6020	1	112691026001A	09/27/2011 21:53	David K Beck	2
06135	Lead	SW-846 6020	1	112691026001A	10/04/2011 05:31	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026001C	09/27/2011 21:53	David K Beck	2
06139	Nickel	SW-846 6020	1	112691026001A	10/04/2011 05:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026001B	09/27/2011 21:53	David K Beck	2
06142	Silver	SW-846 6020	1	112691026001A	09/27/2011 21:53	David K Beck	2
06145	Thallium	SW-846 6020	1	112691026001A	09/27/2011 21:53	David K Beck	2
06148	Vanadium	SW-846 6020	1	112691026001A	09/27/2011 21:53	David K Beck	2
06149	Zinc	SW-846 6020	1	112691026001A	09/27/2011 21:53	David K Beck	2
00159	Mercury	SW-846 7471A	1	112695711003	09/27/2011 19:36	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708005	09/27/2011 12:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708002	10/04/2011 13:57	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112775708002	10/04/2011 22:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026001	09/27/2011 12:48	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711003	09/27/2011 14:14	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11272621202B	09/30/2011 06:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11272621203B	09/29/2011 20:39	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11277243201A	10/05/2011 16:31	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11277102202A	10/04/2011 20:02	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11272621202B	09/29/2011 05:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11272621203B	09/29/2011 05:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11277102202A	10/04/2011 16:10	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11279039401B	10/06/2011 11:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11277243201A	10/04/2011 20:55	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162402A	09/28/2011 20:26	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-143-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA7-SS-0.0-0.5

LLI Sample # SW 6417437
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 13:40

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5112 SDG#: DE251-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-143-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA7-SS-0.0-0.5

LLI Sample # SW 6417437
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 13:40

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5112 SDG#: DE251-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.53	J	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	1.1	J	0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	1.8		0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	8.0		0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	J	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	1.4	J	0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	3.0		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	52		6.1	18		1
10138	Fluoranthene	206-44-0	5.7		0.68	1.7		1
10138	Fluorene	86-73-7	1.5	J	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	J	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.91	J	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	1.7		0.68	1.7		1
10138	Naphthalene	91-20-3	2.7		0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	2.2		0.68	1.7		1
10138	Pyrene	129-00-0	3.0		0.68	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.3		1
10401	2,4-DB	94-82-6	4.5		0.64	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	78	U	78	260		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	0.87		0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.2	U	2.2	5.2		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-143-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA7-SS-0.0-0.5

LLI Sample # SW 6417437
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 13:40

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5112 SDG#: DE251-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	0.83	U	0.83	3.5		1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35		1
01363	p,p-DDE	72-55-9	1.1		0.068	0.35		1
01363	p,p-DDT	50-29-3	0.94		0.068	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.15	U	0.15	0.35		1
01363	Endosulfan I	959-98-8	0.057	U	0.057	0.17		1
01363	Endosulfan II	33213-65-9	0.14	U	0.14	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35		1
01363	Endrin	72-20-8	0.068	U	0.068	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.26	U	0.26	0.35		1
01363	Endrin Ketone	53494-70-5	0.17	U	0.17	0.35		1
01363	Heptachlor	76-44-8	0.095	J	0.062	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.12	J	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.13	U	0.13	0.35		1
01363	Toxaphene	8001-35-2	10	U	10	10		1

Reporting limits were raised due to interference from the sample matrix.

The DCB surrogate data is above the client specified limits of 20 -120%; however the recovery is within our in house statistical limits of 45-150%.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	5.9		1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1
10225	PCB-1254	11097-69-1	5.2		0.34	1.8		1
10225	PCB-1260	11096-82-5	2.7		0.40	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	160	J	100	520		1

The sample was analyzed after the initial calibration with the ending calibration standard analyzed outside the 12 hour window. The sample was analyzed outside the client requested 7 day hold time; however was analyzed within the method's 14 day hold time.
The sample was not reanalyzed since the hold time had expired.

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Sample Description: **SL-143-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA7-SS-0.0-0.5

LLI Sample # SW 6417437
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 13:40

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5112 SDG#: DE251-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.1	U	2.1	6.2		5
10199	EFH (C15-C20)	n.a.	4.3	J	2.1	6.2		5
10199	EFH (C21-C30)	n.a.	25		2.1	6.2		5
10199	EFH (C30 - C40)	n.a.	68		2.1	6.2		5
10199	EFH (C8-C11)	n.a.	2.1	U	2.1	6.2		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,600		6.18	20.4		1
07914	Boron	7440-42-8	6.29		0.368	5.11		1
01650	Calcium	7440-70-2	3,200		2.55	20.4		1
01654	Iron	7439-89-6	18,900		2.67	20.4		1
01656	Lithium	7439-93-2	22.7		0.63	2.0		1
01657	Magnesium	7439-95-4	4,240		0.450	10.2		1
06958	Manganese	7439-96-5	222		0.0368	0.511		1
10145	Phosphorus	7723-14-0	340		0.358	10.2		1
01662	Potassium	7440-09-7	3,340		11.5	51.1		1
01667	Sodium	7440-23-5	75.9	J	6.08	102		1
07968	Strontium	7440-24-6	16.9		0.0255	0.511		1
06969	Tin	7440-31-5	2.64	J	0.327	10.2		1
06970	Titanium	7440-32-6	1,210		0.0711	1.00		1
10146	Zirconium	7440-67-7	0.834	J	0.470	5.11		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0741	U	0.0741	0.200		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.80		0.0802	0.401		2
06126	Barium	7440-39-3	75.6		0.106	0.401		2
06127	Beryllium	7440-41-7	0.490		0.0160	0.100		2
06128	Cadmium	7440-43-9	0.116		0.0441	0.100		2
06131	Chromium	7440-47-3	17.0		0.120	0.401		2
06132	Cobalt	7440-48-4	4.69		0.0200	0.100		2
06133	Copper	7440-50-8	6.53		0.0802	0.401		2

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Sample Description: SL-143-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA7-SS-0.0-0.5

LLI Sample # SW 6417437
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 13:40

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5112 SDG#: DE251-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	8.42		0.0102	0.200		2
06138	Molybdenum	7439-98-7	0.422		0.0501	0.100		2
06139	Nickel	7440-02-0	8.20		0.100	0.401		2
06141	Selenium	7782-49-2	0.113	J	0.0581	0.401		2
06142	Silver	7440-22-4	0.0397	J	0.0142	0.100		2
06145	Thallium	7440-28-0	0.216		0.0301	0.100		2
06148	Vanadium	7440-62-2	33.1		0.0220	0.100		2
06149	Zinc	7440-66-6	52.9		0.561	3.01		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0253	J	0.0070	0.0999		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3		0.83	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.49		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.39		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	3.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-143-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA7-SS-0.0-0.5

LLI Sample # SW 6417437
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 13:40

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5112 SDG#: DE251-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLA026	10/05/2011 12:19	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11273SLA026	10/09/2011 11:24	Chad A Moline	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11273SLA026	10/01/2011 08:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLA026	10/03/2011 10:10	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112740020A	10/05/2011 19:35	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112770016A	10/05/2011 19:15	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112690020A	10/04/2011 23:48	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112690013A	10/01/2011 13:06	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112690020A	09/29/2011 12:15	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112690013A	09/29/2011 11:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112740020A	10/04/2011 02:55	David V Hershey Jr	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112770016A	10/05/2011 09:00	Maria Davenport	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112700014A	09/29/2011 10:51	Elizabeth J Marin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112700014A	09/30/2011 03:09	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112770026A	10/04/2011 22:48	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112730009A	10/02/2011 02:15	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112730005A	10/05/2011 22:55	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112730005A	09/30/2011 13:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112730009A	09/30/2011 17:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112700014A	09/28/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112770026A	10/04/2011 16:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708005	10/03/2011 08:28	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112695708005	10/03/2011 08:28	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112695708005	10/03/2011 08:28	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112695708005	10/03/2011 08:28	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112695708005	10/03/2011 08:28	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112695708005	10/03/2011 08:28	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112695708005	10/03/2011 08:28	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112695708005	10/03/2011 08:28	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112695708005	10/03/2011 08:28	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112695708005	10/03/2011 08:28	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112695708005	10/03/2011 08:28	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112695708005	10/03/2011 08:28	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112775708002	10/05/2011 09:01	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112695708005	10/03/2011 08:28	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112691026001A	10/04/2011 05:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112691026001A	09/27/2011 21:56	David K Beck	2

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-143-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA7-SS-0.0-0.5

LLI Sample # SW 6417437
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 13:40

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14420 Albemarle Point Place
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E5112 SDG#: DE251-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112691026001D	09/27/2011 21:56	David K Beck	2
06127	Beryllium	SW-846 6020	1	112691026001A	09/27/2011 21:56	David K Beck	2
06128	Cadmium	SW-846 6020	1	112691026001A	09/27/2011 21:56	David K Beck	2
06131	Chromium	SW-846 6020	1	112691026001A	09/27/2011 21:56	David K Beck	2
06132	Cobalt	SW-846 6020	1	112691026001A	09/27/2011 21:56	David K Beck	2
06133	Copper	SW-846 6020	1	112691026001A	09/27/2011 21:56	David K Beck	2
06135	Lead	SW-846 6020	1	112691026001A	10/04/2011 05:33	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026001C	09/27/2011 21:56	David K Beck	2
06139	Nickel	SW-846 6020	1	112691026001A	10/04/2011 05:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026001B	09/27/2011 21:56	David K Beck	2
06142	Silver	SW-846 6020	1	112691026001A	09/27/2011 21:56	David K Beck	2
06145	Thallium	SW-846 6020	1	112691026001A	09/27/2011 21:56	David K Beck	2
06148	Vanadium	SW-846 6020	1	112691026001A	09/27/2011 21:56	David K Beck	2
06149	Zinc	SW-846 6020	1	112691026001A	09/27/2011 21:56	David K Beck	2
00159	Mercury	SW-846 7471A	1	112695711003	09/27/2011 19:37	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708005	09/27/2011 12:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708002	10/04/2011 13:57	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112775708002	10/04/2011 22:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026001	09/27/2011 12:48	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711003	09/27/2011 14:14	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11272621202B	09/30/2011 07:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11272621203B	09/29/2011 22:11	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11277243201A	10/05/2011 16:44	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11277102202A	10/04/2011 20:03	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11272621202B	09/29/2011 05:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11272621203B	09/29/2011 05:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11277102202A	10/04/2011 16:10	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11279039401B	10/06/2011 11:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11277243201A	10/04/2011 20:55	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162402A	09/28/2011 20:26	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-039-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA7-SB-4.0-5.0

LLI Sample # SW 6417438
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 11:32

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5113 SDG#: DE251-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1

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Sample Description: **SL-039-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA7-SB-4.0-5.0

LLI Sample # SW 6417438
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 11:32

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5113 SDG#: DE251-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	190	U	190	190		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	51		6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		22.24
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1

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Sample Description: **SL-039-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA7-SB-4.0-5.0

LLI Sample # SW 6417438
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 11:32

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5113 SDG#: DE251-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
	The sample was analyzed after the initial calibration with the ending calibration standard analyzed outside the 12 hour window. The sample was analyzed outside the client requested 7 day hold time; however was analyzed within the method's 14 day hold time. The sample was not reanalyzed since the hold time had expired.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	1.6		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,800		6.60	21.8		1
07914	Boron	7440-42-8	11.1		0.393	5.45		1
01650	Calcium	7440-70-2	1,290		2.73	21.8		1
01654	Iron	7439-89-6	20,400		2.85	21.8		1
01656	Lithium	7439-93-2	22.7		0.68	2.2		1
01657	Magnesium	7439-95-4	3,790		0.480	10.9		1
06958	Manganese	7439-96-5	119		0.0393	0.545		1
10145	Phosphorus	7723-14-0	121		0.382	10.9		1
01662	Potassium	7440-09-7	1,340		12.3	54.5		1
01667	Sodium	7440-23-5	100	J	6.49	109		1
07968	Strontium	7440-24-6	18.3		0.0273	0.545		1

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Sample Description: **SL-039-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA7-SB-4.0-5.0

LLI Sample # SW 6417438
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 11:32

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5113 SDG#: DE251-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06969	Tin	7440-31-5	2.81	J	0.349	10.9		1
06970	Titanium	7440-32-6	1,280		0.0782	1.10		1
10146	Zirconium	7440-67-7	1.51	J	0.502	5.45		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0823	U	0.0823	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.59		0.0890	0.445		2
06126	Barium	7440-39-3	56.1		0.118	0.445		2
06127	Beryllium	7440-41-7	0.672		0.0178	0.111		2
06128	Cadmium	7440-43-9	0.0489	U	0.0489	0.111		2
06131	Chromium	7440-47-3	16.7		0.133	0.445		2
06132	Cobalt	7440-48-4	3.40		0.0222	0.111		2
06133	Copper	7440-50-8	3.43		0.0890	0.445		2
06135	Lead	7439-92-1	6.42		0.0113	0.222		2
06138	Molybdenum	7439-98-7	0.739		0.0556	0.111		2
06139	Nickel	7440-02-0	6.91		0.111	0.445		2
06141	Selenium	7782-49-2	0.192	J	0.0645	0.445		2
06142	Silver	7440-22-4	0.0380	J	0.0158	0.111		2
06145	Thallium	7440-28-0	0.200		0.0334	0.111		2
06148	Vanadium	7440-62-2	35.6		0.0245	0.111		2
06149	Zinc	7440-66-6	33.8		0.623	3.34		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0165	J	0.0075	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.89	U	0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0	U	10.0	33.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.64	J	0.23	1.2		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	5.87		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.1		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-039-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA7-SB-4.0-5.0

LLI Sample # SW 6417438
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 11:32

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5113 SDG#: DE251-13

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-039-SA7-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLA026	10/05/2011 12:44	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11273SLA026	10/09/2011 11:56	Chad A Moline	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11273SLA026	10/01/2011 08:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLA026	10/03/2011 10:10	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11270B34A	09/28/2011 01:29	Linda C Pape	22.24
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201126625634	09/23/2011 16:10	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201126625634	09/23/2011 16:10	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112690013A	10/01/2011 13:25	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112690013A	09/29/2011 11:00	Olivia Arosemena	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112700014A	09/29/2011 11:08	Elizabeth J Marin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112700014A	09/30/2011 03:25	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112770026A	10/04/2011 23:01	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112730009A	10/01/2011 23:58	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112730005A	10/04/2011 13:00	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112730005A	09/30/2011 13:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112730009A	09/30/2011 17:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112700014A	09/28/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112770026A	10/04/2011 16:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708005	10/03/2011 08:40	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112695708005	10/03/2011 08:40	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112695708005	10/03/2011 08:40	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112695708005	10/03/2011 08:40	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112695708005	10/03/2011 08:40	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112695708005	10/03/2011 08:40	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112695708005	10/03/2011 08:40	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112695708005	10/03/2011 08:40	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112695708005	10/03/2011 08:40	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112695708005	10/03/2011 08:40	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112695708005	10/03/2011 08:40	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112695708005	10/03/2011 08:40	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-039-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA7-SB-4.0-5.0

LLI Sample # SW 6417438
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 11:32

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5113 SDG#: DE251-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112775708002	10/05/2011 09:06	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112695708005	10/03/2011 08:40	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112691026001A	09/27/2011 21:59	David K Beck	2
06125	Arsenic	SW-846 6020	1	112691026001A	09/27/2011 21:59	David K Beck	2
06126	Barium	SW-846 6020	1	112691026001D	09/27/2011 21:59	David K Beck	2
06127	Beryllium	SW-846 6020	1	112691026001A	09/27/2011 21:59	David K Beck	2
06128	Cadmium	SW-846 6020	1	112691026001A	09/27/2011 21:59	David K Beck	2
06131	Chromium	SW-846 6020	1	112691026001A	09/27/2011 21:59	David K Beck	2
06132	Cobalt	SW-846 6020	1	112691026001A	09/27/2011 21:59	David K Beck	2
06133	Copper	SW-846 6020	1	112691026001A	09/27/2011 21:59	David K Beck	2
06135	Lead	SW-846 6020	1	112691026001A	10/04/2011 05:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026001C	09/27/2011 21:59	David K Beck	2
06139	Nickel	SW-846 6020	1	112691026001A	10/04/2011 05:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026001B	09/27/2011 21:59	David K Beck	2
06142	Silver	SW-846 6020	1	112691026001A	09/27/2011 21:59	David K Beck	2
06145	Thallium	SW-846 6020	1	112691026001A	09/27/2011 21:59	David K Beck	2
06148	Vanadium	SW-846 6020	1	112691026001A	09/27/2011 21:59	David K Beck	2
06149	Zinc	SW-846 6020	1	112691026001A	09/27/2011 21:59	David K Beck	2
00159	Mercury	SW-846 7471A	1	112695711003	09/27/2011 19:38	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708005	09/27/2011 12:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708002	10/04/2011 13:57	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112775708002	10/04/2011 22:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026001	09/27/2011 12:48	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711003	09/27/2011 14:14	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11272621202B	09/30/2011 07:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11272621203B	09/29/2011 22:34	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11277243201A	10/05/2011 17:05	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11272621202B	09/29/2011 05:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11272621203B	09/29/2011 05:50	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11279039401B	10/06/2011 11:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11277243201A	10/04/2011 20:55	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162402A	09/28/2011 20:26	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-072-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA7-SB-4.0-5.0

LLI Sample # SW 6417439
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:24

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5114 SDG#: DE251-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	74	U	74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	74	U	74	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-072-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA7-SB-4.0-5.0

LLI Sample # SW 6417439
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:24

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5114 SDG#: DE251-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	190	U	190	190		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.82	J	0.74	1.8		1
10138	Naphthalene	91-20-3	0.97	J	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		20.36
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-072-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA7-SB-4.0-5.0

LLI Sample # SW 6417439
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:24

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5114 SDG#: DE251-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.46	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
	The sample was analyzed after the initial calibration with the ending calibration standard analyzed outside the 12 hour window. The sample was analyzed outside the client requested 7 day hold time; however was analyzed within the method's 14 day hold time. The sample was not reanalyzed since the hold time had expired.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	1.1	J	0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	31,600		6.70	22.1		1
07914	Boron	7440-42-8	8.82		0.399	5.54		1
01650	Calcium	7440-70-2	1,240		2.77	22.1		1
01654	Iron	7439-89-6	22,000		2.89	22.1		1
01656	Lithium	7439-93-2	22.0		0.69	2.2		1
01657	Magnesium	7439-95-4	3,710		0.487	11.1		1
06958	Manganese	7439-96-5	106		0.0399	0.554		1
10145	Phosphorus	7723-14-0	131		0.388	11.1		1
01662	Potassium	7440-09-7	1,100		12.5	55.4		1
01667	Sodium	7440-23-5	117		6.59	111		1
07968	Strontium	7440-24-6	17.8		0.0277	0.554		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-072-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA7-SB-4.0-5.0

LLI Sample # SW 6417439
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:24

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5114 SDG#: DE251-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06969	Tin	7440-31-5	3.09	J	0.354	11.1		1
06970	Titanium	7440-32-6	1,380		0.0771	1.09		1
10146	Zirconium	7440-67-7	1.88	J	0.509	5.54		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0909	J	0.0812	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.09		0.0877	0.439		2
06126	Barium	7440-39-3	74.5		0.116	0.439		2
06127	Beryllium	7440-41-7	1.01		0.0175	0.110		2
06128	Cadmium	7440-43-9	0.0483	U	0.0483	0.110		2
06131	Chromium	7440-47-3	19.7		0.132	0.439		2
06132	Cobalt	7440-48-4	3.74		0.0219	0.110		2
06133	Copper	7440-50-8	4.44		0.0877	0.439		2
06135	Lead	7439-92-1	6.90		0.0112	0.219		2
06138	Molybdenum	7439-98-7	1.09		0.0548	0.110		2
06139	Nickel	7440-02-0	8.43		0.110	0.439		2
06141	Selenium	7782-49-2	0.215	J	0.0636	0.439		2
06142	Silver	7440-22-4	0.0302	J	0.0156	0.110		2
06145	Thallium	7440-28-0	0.232		0.0329	0.110		2
06148	Vanadium	7440-62-2	41.7		0.0241	0.110		2
06149	Zinc	7440-66-6	33.9		0.614	3.29		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0139	J	0.0073	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.91	U	0.91	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.93	J	0.23	1.2		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	5.58		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-072-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA7-SB-4.0-5.0

LLI Sample # SW 6417439
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:24

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5114 SDG#: DE251-14

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-072-SA7-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLA026	10/05/2011 13:09	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11273SLA026	10/09/2011 12:29	Chad A Moline	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11273SLA026	10/01/2011 08:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLA026	10/03/2011 10:10	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11270B34A	09/28/2011 02:06	Linda C Pape	20.36
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201126625634	09/23/2011 16:12	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201126625634	09/23/2011 16:12	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112690013A	10/01/2011 13:43	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112690013A	09/29/2011 11:00	Olivia Arosemena	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112700014A	09/29/2011 11:26	Elizabeth J Marin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112700014A	09/30/2011 03:42	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112770026A	10/04/2011 23:13	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112730009A	10/02/2011 00:25	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112730005A	10/04/2011 13:23	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112730005A	09/30/2011 13:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112730009A	09/30/2011 17:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112700014A	09/28/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112770026A	10/04/2011 16:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708005	10/03/2011 08:44	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112695708005	10/03/2011 08:44	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112695708005	10/03/2011 08:44	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112695708005	10/03/2011 08:44	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112695708005	10/03/2011 08:44	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112695708005	10/03/2011 08:44	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112695708005	10/03/2011 08:44	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112695708005	10/03/2011 08:44	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112695708005	10/03/2011 08:44	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112695708005	10/03/2011 08:44	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112695708005	10/03/2011 08:44	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112695708005	10/03/2011 08:44	Joanne M Gates	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-072-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA7-SB-4.0-5.0

LLI Sample # SW 6417439
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:24

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5114 SDG#: DE251-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112775708002	10/05/2011 09:18	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112695708005	10/03/2011 08:44	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112691026001A	09/27/2011 22:08	David K Beck	2
06125	Arsenic	SW-846 6020	1	112691026001A	09/27/2011 22:08	David K Beck	2
06126	Barium	SW-846 6020	1	112691026001D	09/27/2011 22:08	David K Beck	2
06127	Beryllium	SW-846 6020	1	112691026001A	09/27/2011 22:08	David K Beck	2
06128	Cadmium	SW-846 6020	1	112691026001A	09/27/2011 22:08	David K Beck	2
06131	Chromium	SW-846 6020	1	112691026001A	09/27/2011 22:08	David K Beck	2
06132	Cobalt	SW-846 6020	1	112691026001A	09/27/2011 22:08	David K Beck	2
06133	Copper	SW-846 6020	1	112691026001A	09/27/2011 22:08	David K Beck	2
06135	Lead	SW-846 6020	1	112691026001A	09/27/2011 22:08	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112691026001C	09/27/2011 22:08	David K Beck	2
06139	Nickel	SW-846 6020	1	112691026001A	09/27/2011 22:08	David K Beck	2
06141	Selenium	SW-846 6020	1	112691026001B	09/27/2011 22:08	David K Beck	2
06142	Silver	SW-846 6020	1	112691026001A	09/27/2011 22:08	David K Beck	2
06145	Thallium	SW-846 6020	1	112691026001A	09/27/2011 22:08	David K Beck	2
06148	Vanadium	SW-846 6020	1	112691026001A	09/27/2011 22:08	David K Beck	2
06149	Zinc	SW-846 6020	1	112691026001A	09/27/2011 22:08	David K Beck	2
00159	Mercury	SW-846 7471A	1	112695711003	09/27/2011 19:39	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708005	09/27/2011 12:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708002	10/04/2011 13:57	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112775708002	10/04/2011 22:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026001	09/27/2011 12:48	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711003	09/27/2011 14:14	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11272621202B	09/30/2011 07:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11272621203B	09/29/2011 22:57	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11277243201A	10/05/2011 17:31	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11272621202B	09/29/2011 05:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11272621203B	09/29/2011 05:50	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11279039401B	10/06/2011 11:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11277243201A	10/04/2011 20:55	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162402A	09/28/2011 20:26	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-072-SA7-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA7-SB-7.5-8.5

LLI Sample # SW 6417440
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:30

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5115 SDG#: DE251-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-072-SA7-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA7-SB-7.5-8.5

LLI Sample # SW 6417440
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:30

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5115 SDG#: DE251-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	1.1	J	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	1.1	J	0.74	1.8		1
10138	Naphthalene	91-20-3	1.1	J	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.87	J	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		25
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1

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Sample Description: SL-072-SA7-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA7-SB-7.5-8.5

LLI Sample # SW 6417440
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:30

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5115 SDG#: DE251-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	140	J	110	550		1
	The sample was analyzed after the initial calibration with the ending calibration standard analyzed outside the 12 hour window. The sample was analyzed outside the client requested 7 day hold time; however was analyzed within the method's 14 day hold time. The sample was not reanalyzed since the hold time had expired.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	1.6		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,100		6.45	21.3		1
07914	Boron	7440-42-8	4.94	J	0.384	5.33		1
01650	Calcium	7440-70-2	243		2.67	21.3		1
01654	Iron	7439-89-6	14,300		2.78	21.3		1
01656	Lithium	7439-93-2	16.5		0.66	2.1		1
01657	Magnesium	7439-95-4	2,800		0.469	10.7		1
06958	Manganese	7439-96-5	120		0.0384	0.533		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-072-SA7-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA7-SB-7.5-8.5

LLI Sample # SW 6417440
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:30

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5115 SDG#: DE251-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	126		0.373	10.7		1
01662	Potassium	7440-09-7	1,470		12.0	53.3		1
01667	Sodium	7440-23-5	86.1	J	6.34	107		1
07968	Strontium	7440-24-6	4.66		0.0267	0.533		1
06969	Tin	7440-31-5	2.74	J	0.341	10.7		1
06970	Titanium	7440-32-6	1,290		0.0779	1.10		1
10146	Zirconium	7440-67-7	1.60	J	0.490	5.33		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0797	U	0.0797	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.71		0.0861	0.431		2
06126	Barium	7440-39-3	29.1		0.114	0.431		2
06127	Beryllium	7440-41-7	0.538		0.0172	0.108		2
06128	Cadmium	7440-43-9	0.0474	U	0.0474	0.108		2
06131	Chromium	7440-47-3	11.6		0.129	0.431		2
06132	Cobalt	7440-48-4	2.57		0.0215	0.108		2
06133	Copper	7440-50-8	3.52		0.0861	0.431		2
06135	Lead	7439-92-1	4.88		0.0110	0.215		2
06138	Molybdenum	7439-98-7	0.398		0.0538	0.108		2
06139	Nickel	7440-02-0	5.05		0.108	0.431		2
06141	Selenium	7782-49-2	0.143	J	0.0624	0.431		2
06142	Silver	7440-22-4	0.0183	J	0.0153	0.108		2
06145	Thallium	7440-28-0	0.159		0.0323	0.108		2
06148	Vanadium	7440-62-2	24.2		0.0237	0.108		2
06149	Zinc	7440-66-6	31.2		0.603	3.23		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0077	U	0.0077	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.88	U	0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.85	J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	5.12		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.8		0.50	0.50		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-072-SA7-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-072-SA7-SB-7.5-8.5

LLI Sample # SW 6417440
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:30

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5115 SDG#: DE251-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-072-SA7-SB-8.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11277SLC026	10/06/2011	05:45	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11273SLA026	10/09/2011	13:01	Chad A Moline	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11273SLA026	10/01/2011	08:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11277SLC026	10/05/2011	07:35	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11270B34A	09/28/2011	02:42	Linda C Pape	25
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201126625634	09/23/2011	16:13	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201126625634	09/23/2011	16:13	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112690013A	10/01/2011	14:02	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112690013A	09/29/2011	11:00	Olivia Arosemena	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112700014A	09/29/2011	11:43	Elizabeth J Marin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112700014A	09/30/2011	03:58	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112770026A	10/04/2011	23:26	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112730009A	10/02/2011	00:53	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112730005A	10/04/2011	13:47	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112730005A	09/30/2011	13:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112730009A	09/30/2011	17:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112700014A	09/28/2011	21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112770026A	10/04/2011	16:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708005	10/03/2011	08:48	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112695708005	10/03/2011	08:48	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-072-SA7-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA7-SB-7.5-8.5

LLI Sample # SW 6417440
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:30

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5115 SDG#: DE251-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	112695708005	10/03/2011 08:48	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112695708005	10/03/2011 08:48	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112695708005	10/03/2011 08:48	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112695708005	10/03/2011 08:48	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112695708005	10/03/2011 08:48	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112695708005	10/03/2011 08:48	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112695708005	10/03/2011 08:48	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112695708005	10/03/2011 08:48	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112695708005	10/03/2011 08:48	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112695708005	10/03/2011 08:48	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112775708002	10/05/2011 09:22	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112695708005	10/03/2011 08:48	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112691026001A	09/27/2011 22:11	David K Beck	2
06125	Arsenic	SW-846 6020	1	112691026001A	09/27/2011 22:11	David K Beck	2
06126	Barium	SW-846 6020	1	112691026001D	09/27/2011 22:11	David K Beck	2
06127	Beryllium	SW-846 6020	1	112691026001A	09/27/2011 22:11	David K Beck	2
06128	Cadmium	SW-846 6020	1	112691026001A	09/27/2011 22:11	David K Beck	2
06131	Chromium	SW-846 6020	1	112691026001A	09/27/2011 22:11	David K Beck	2
06132	Cobalt	SW-846 6020	1	112691026001A	09/27/2011 22:11	David K Beck	2
06133	Copper	SW-846 6020	1	112691026001A	09/27/2011 22:11	David K Beck	2
06135	Lead	SW-846 6020	1	112691026001A	09/27/2011 22:11	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112691026001C	09/27/2011 22:11	David K Beck	2
06139	Nickel	SW-846 6020	1	112691026001A	09/27/2011 22:11	David K Beck	2
06141	Selenium	SW-846 6020	1	112691026001B	09/27/2011 22:11	David K Beck	2
06142	Silver	SW-846 6020	1	112691026001A	09/27/2011 22:11	David K Beck	2
06145	Thallium	SW-846 6020	1	112691026001A	09/27/2011 22:11	David K Beck	2
06148	Vanadium	SW-846 6020	1	112691026001A	09/27/2011 22:11	David K Beck	2
06149	Zinc	SW-846 6020	1	112691026001A	09/27/2011 22:11	David K Beck	2
00159	Mercury	SW-846 7471A	1	112695711003	09/27/2011 19:40	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708005	09/27/2011 12:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708002	10/04/2011 13:57	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112775708002	10/04/2011 22:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026001	09/27/2011 12:48	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711003	09/27/2011 14:14	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11272621202B	09/30/2011 08:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11272621203B	09/29/2011 23:20	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11277243201A	10/05/2011 17:45	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11272621202B	09/29/2011 05:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11272621203B	09/29/2011 05:50	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11279039401B	10/06/2011 11:45	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-072-SA7-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA7-SB-7.5-8.5

LLI Sample # SW 6417440
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:30

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5115 SDG#: DE251-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11277243201A	10/04/2011 20:55	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162402B	09/28/2011 20:26	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-074-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA7-SB-4.0-5.0

LLI Sample # SW 6417441
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 12:25

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5116 SDG#: DE251-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	70	U	70	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	70	U	70	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-074-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-074-SA7-SB-4.0-5.0

LLI Sample # SW 6417441
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 12:25

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5116 SDG#: DE251-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	1.7	J	0.70	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.3	U	6.3	19		1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.7		1
10138	Fluorene	86-73-7	0.71	J	0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.7		1
10138	1-Methylnaphthalene	90-12-0	1.2	J	0.70	1.7		1
10138	2-Methylnaphthalene	91-57-6	2.6		0.70	1.7		1
10138	Naphthalene	91-20-3	3.4		0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	0.81	J	0.70	1.7		1
10138	Pyrene	129-00-0	0.70	U	0.70	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		24.65
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-074-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-074-SA7-SB-4.0-5.0

LLI Sample # SW 6417441
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 12:25

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5116 SDG#: DE251-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
	The sample was analyzed after the initial calibration with the ending calibration standard analyzed outside the 12 hour window. The sample was analyzed outside the client requested 7 day hold time; however was analyzed within the method's 14 day hold time. The sample was not reanalyzed since the hold time had expired.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.6		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.6		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C21-C30)	n.a.	0.83	J	0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	3.5		0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,400		6.03	19.9		1
07914	Boron	7440-42-8	5.78		0.359	4.99		1
01650	Calcium	7440-70-2	1,630		2.49	19.9		1
01654	Iron	7439-89-6	17,900		2.60	19.9		1
01656	Lithium	7439-93-2	22.9		0.62	2.0		1
01657	Magnesium	7439-95-4	3,550		0.439	9.97		1
06958	Manganese	7439-96-5	189		0.0359	0.499		1
10145	Phosphorus	7723-14-0	167		0.349	9.97		1
01662	Potassium	7440-09-7	1,880		11.3	49.9		1
01667	Sodium	7440-23-5	64.4	J	5.93	99.7		1
07968	Strontium	7440-24-6	15.1		0.0249	0.499		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-074-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-074-SA7-SB-4.0-5.0

LLI Sample # SW 6417441
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 12:25

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5116 SDG#: DE251-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06969	Tin	7440-31-5	2.71	J	0.319	9.97		1
06970	Titanium	7440-32-6	1,260		0.0729	1.03		1
10146	Zirconium	7440-67-7	1.43	J	0.459	4.99		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0775	U	0.0775	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.64		0.0838	0.419		2
06126	Barium	7440-39-3	67.4		0.111	0.419		2
06127	Beryllium	7440-41-7	0.576		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.0461	U	0.0461	0.105		2
06131	Chromium	7440-47-3	14.2		0.126	0.419		2
06132	Cobalt	7440-48-4	4.59		0.0209	0.105		2
06133	Copper	7440-50-8	4.90		0.0838	0.419		2
06135	Lead	7439-92-1	5.23		0.0107	0.209		2
06138	Molybdenum	7439-98-7	0.461		0.0524	0.105		2
06139	Nickel	7440-02-0	8.39		0.105	0.419		2
06141	Selenium	7782-49-2	0.181	J	0.0607	0.419		2
06142	Silver	7440-22-4	0.0298	J	0.0149	0.105		2
06145	Thallium	7440-28-0	0.233		0.0314	0.105		2
06148	Vanadium	7440-62-2	30.5		0.0230	0.105		2
06149	Zinc	7440-66-6	53.3		0.586	3.14		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	U	0.0073	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0		0.85	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.25	J	0.21	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.19		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-074-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-074-SA7-SB-4.0-5.0

LLI Sample # SW 6417441
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 12:25

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5116 SDG#: DE251-16

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-074-SA7-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLA026	10/05/2011 13:34	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11273SLA026	10/09/2011 13:34	Chad A Moline	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11273SLA026	10/01/2011 08:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLA026	10/03/2011 10:10	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11270B34A	09/28/2011 04:32	Linda C Pape	24.65
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201126625634	09/23/2011 16:15	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201126625634	09/23/2011 16:15	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112690013A	10/01/2011 14:21	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112690013A	09/29/2011 11:00	Olivia Arosemena	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112700014A	09/29/2011 12:01	Elizabeth J Marin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112700014A	09/30/2011 04:15	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112770026A	10/04/2011 23:52	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112730009A	10/02/2011 05:27	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112730005A	10/04/2011 14:11	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112730005A	09/30/2011 13:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112730009A	09/30/2011 17:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112700014A	09/28/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112770026A	10/04/2011 16:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708005	10/03/2011 08:52	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112695708005	10/03/2011 08:52	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112695708005	10/03/2011 08:52	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112695708005	10/03/2011 08:52	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112695708005	10/03/2011 08:52	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112695708005	10/03/2011 08:52	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112695708005	10/03/2011 08:52	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112695708005	10/03/2011 08:52	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112695708005	10/03/2011 08:52	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112695708005	10/03/2011 08:52	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112695708005	10/03/2011 08:52	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112695708005	10/03/2011 08:52	Joanne M Gates	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-074-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA7-SB-4.0-5.0

LLI Sample # SW 6417441
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 12:25

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5116 SDG#: DE251-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112775708002	10/05/2011 09:26	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112695708005	10/03/2011 08:52	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112691026001A	09/27/2011 22:14	David K Beck	2
06125	Arsenic	SW-846 6020	1	112691026001A	09/27/2011 22:14	David K Beck	2
06126	Barium	SW-846 6020	1	112691026001D	09/27/2011 22:14	David K Beck	2
06127	Beryllium	SW-846 6020	1	112691026001A	09/27/2011 22:14	David K Beck	2
06128	Cadmium	SW-846 6020	1	112691026001A	09/27/2011 22:14	David K Beck	2
06131	Chromium	SW-846 6020	1	112691026001A	09/27/2011 22:14	David K Beck	2
06132	Cobalt	SW-846 6020	1	112691026001A	09/27/2011 22:14	David K Beck	2
06133	Copper	SW-846 6020	1	112691026001A	09/27/2011 22:14	David K Beck	2
06135	Lead	SW-846 6020	1	112691026001A	09/27/2011 22:14	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112691026001C	09/27/2011 22:14	David K Beck	2
06139	Nickel	SW-846 6020	1	112691026001A	09/27/2011 22:14	David K Beck	2
06141	Selenium	SW-846 6020	1	112691026001B	09/27/2011 22:14	David K Beck	2
06142	Silver	SW-846 6020	1	112691026001A	09/27/2011 22:14	David K Beck	2
06145	Thallium	SW-846 6020	1	112691026001A	09/27/2011 22:14	David K Beck	2
06148	Vanadium	SW-846 6020	1	112691026001A	09/27/2011 22:14	David K Beck	2
06149	Zinc	SW-846 6020	1	112691026001A	09/27/2011 22:14	David K Beck	2
00159	Mercury	SW-846 7471A	1	112695711003	09/27/2011 19:44	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708005	09/27/2011 12:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708002	10/04/2011 13:57	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112775708002	10/04/2011 22:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026001	09/27/2011 12:48	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711003	09/27/2011 14:14	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11272621202B	09/30/2011 08:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11272621203B	09/29/2011 23:43	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11277243201A	10/05/2011 17:52	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11272621202B	09/29/2011 05:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11272621203B	09/29/2011 05:50	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11279039401B	10/06/2011 11:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11277243201A	10/04/2011 20:55	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162402B	09/28/2011 20:26	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-075-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA7-SB-4.0-5.0

LLI Sample # SW 6417442
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:20

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5117 SDG#: DE251-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1

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Sample Description: **SL-075-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA7-SB-4.0-5.0

LLI Sample # SW 6417442
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:20

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5117 SDG#: DE251-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.2	U	6.2	19		1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.96	J	0.69	1.7		1
10138	Naphthalene	91-20-3	1.4	J	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19		1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7		1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		26.32
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5		1
10225	Aroclor 5460	11126-42-4	2.2	J	1.0	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1

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Sample Description: SL-075-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA7-SB-4.0-5.0

LLI Sample # SW 6417442
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:20

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5117 SDG#: DE251-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.67	J	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
	The sample was analyzed after the initial calibration with the ending calibration standard analyzed outside the 12 hour window. The sample was analyzed outside the client requested 7 day hold time; however was analyzed within the method's 14 day hold time. The sample was not reanalyzed since the hold time had expired.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C21-C30)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	1.3		0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,900		6.27	20.7		1
07914	Boron	7440-42-8	6.52		0.373	5.18		1
01650	Calcium	7440-70-2	1,790		2.59	20.7		1
01654	Iron	7439-89-6	16,800		2.70	20.7		1
01656	Lithium	7439-93-2	22.8		0.64	2.1		1
01657	Magnesium	7439-95-4	3,300		0.456	10.4		1
06958	Manganese	7439-96-5	223		0.0373	0.518		1
10145	Phosphorus	7723-14-0	280		0.362	10.4		1
01662	Potassium	7440-09-7	2,680		11.7	51.8		1
01667	Sodium	7440-23-5	88.5	J	6.16	104		1
07968	Strontium	7440-24-6	13.3		0.0259	0.518		1

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Sample Description: SL-075-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA7-SB-4.0-5.0

LLI Sample # SW 6417442
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:20

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5117 SDG#: DE251-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06969	Tin	7440-31-5	2.61	J	0.331	10.4		1
06970	Titanium	7440-32-6	1,240		0.0721	1.02		1
10146	Zirconium	7440-67-7	1.12	J	0.476	5.18		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0774	U	0.0774	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.71		0.0837	0.418		2
06126	Barium	7440-39-3	80.8		0.111	0.418		2
06127	Beryllium	7440-41-7	0.556		0.0167	0.105		2
06128	Cadmium	7440-43-9	0.0860	J	0.0460	0.105		2
06131	Chromium	7440-47-3	16.1		0.126	0.418		2
06132	Cobalt	7440-48-4	4.83		0.0209	0.105		2
06133	Copper	7440-50-8	6.38		0.0837	0.418		2
06135	Lead	7439-92-1	5.44		0.0107	0.209		2
06138	Molybdenum	7439-98-7	0.827		0.0523	0.105		2
06139	Nickel	7440-02-0	9.50		0.105	0.418		2
06141	Selenium	7782-49-2	0.292	J	0.0607	0.418		2
06142	Silver	7440-22-4	0.0285	J	0.0149	0.105		2
06145	Thallium	7440-28-0	0.255		0.0314	0.105		2
06148	Vanadium	7440-62-2	34.6		0.0230	0.105		2
06149	Zinc	7440-66-6	99.2		0.586	3.14		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	J	0.0070	0.100		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.83	U	0.83	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.29	J	0.21	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.37		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: **SL-075-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA7-SB-4.0-5.0

LLI Sample # SW 6417442
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:20

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5117 SDG#: DE251-17

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-075-SA7-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLA026	10/05/2011 14:00	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11273SLA026	10/09/2011 14:06	Chad A Moline	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11273SLA026	10/01/2011 08:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLA026	10/03/2011 10:10	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11270B34A	09/28/2011 05:09	Linda C Pape	26.32
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201126625634	09/23/2011 16:16	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201126625634	09/23/2011 16:16	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112690013A	10/01/2011 14:40	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112690013A	09/29/2011 11:00	Olivia Arosemena	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112700014A	09/29/2011 12:19	Elizabeth J Marin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112700014A	09/30/2011 04:31	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112770026A	10/05/2011 00:05	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112730009A	10/02/2011 01:20	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112730005A	10/04/2011 14:35	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112730005A	09/30/2011 13:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112730009A	09/30/2011 17:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112700014A	09/28/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112770026A	10/04/2011 16:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708005	10/03/2011 08:56	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112695708005	10/03/2011 08:56	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112695708005	10/03/2011 08:56	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112695708005	10/03/2011 08:56	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112695708005	10/03/2011 08:56	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112695708005	10/03/2011 08:56	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112695708005	10/03/2011 08:56	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112695708005	10/03/2011 08:56	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112695708005	10/03/2011 08:56	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112695708005	10/03/2011 08:56	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112695708005	10/03/2011 08:56	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112695708005	10/03/2011 08:56	Joanne M Gates	1

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Sample Description: **SL-075-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA7-SB-4.0-5.0

LLI Sample # SW 6417442
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:20

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5117 SDG#: DE251-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112775708002	10/05/2011 09:30	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112695708005	10/03/2011 08:56	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112691026001A	09/27/2011 22:17	David K Beck	2
06125	Arsenic	SW-846 6020	1	112691026001A	09/27/2011 22:17	David K Beck	2
06126	Barium	SW-846 6020	1	112691026001D	09/27/2011 22:17	David K Beck	2
06127	Beryllium	SW-846 6020	1	112691026001A	09/27/2011 22:17	David K Beck	2
06128	Cadmium	SW-846 6020	1	112691026001A	09/27/2011 22:17	David K Beck	2
06131	Chromium	SW-846 6020	1	112691026001A	09/27/2011 22:17	David K Beck	2
06132	Cobalt	SW-846 6020	1	112691026001A	09/27/2011 22:17	David K Beck	2
06133	Copper	SW-846 6020	1	112691026001A	09/27/2011 22:17	David K Beck	2
06135	Lead	SW-846 6020	1	112691026001A	09/27/2011 22:17	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112691026001C	09/27/2011 22:17	David K Beck	2
06139	Nickel	SW-846 6020	1	112691026001A	09/27/2011 22:17	David K Beck	2
06141	Selenium	SW-846 6020	1	112691026001B	09/27/2011 22:17	David K Beck	2
06142	Silver	SW-846 6020	1	112691026001A	09/27/2011 22:17	David K Beck	2
06145	Thallium	SW-846 6020	1	112691026001A	09/27/2011 22:17	David K Beck	2
06148	Vanadium	SW-846 6020	1	112691026001A	09/27/2011 22:17	David K Beck	2
06149	Zinc	SW-846 6020	1	112691026001A	09/27/2011 22:17	David K Beck	2
00159	Mercury	SW-846 7471A	1	112695711003	09/27/2011 19:45	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708005	09/27/2011 12:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708002	10/04/2011 13:57	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112775708002	10/04/2011 22:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026001	09/27/2011 12:48	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711003	09/27/2011 14:14	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11272621202B	09/30/2011 17:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11272621203B	09/30/2011 00:06	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11277243201A	10/05/2011 18:05	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11272621202B	09/29/2011 05:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11272621203B	09/29/2011 05:50	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11279039401B	10/06/2011 11:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11277243201A	10/04/2011 20:55	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162402B	09/28/2011 20:26	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-075-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA7-SB-9.0-10.0

LLI Sample # SW 6417443
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:26

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5118 SDG#: DE251-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: **SL-075-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA7-SB-9.0-10.0

LLI Sample # SW 6417443
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:26

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5118 SDG#: DE251-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.0	J	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	11	J	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	1.1	J	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		22.56
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	7.2		1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.74	J	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1

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Sample Description: SL-075-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA7-SB-9.0-10.0

LLI Sample # SW 6417443
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:26

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5118 SDG#: DE251-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	7.5		0.43	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
	The sample was analyzed after the initial calibration with the ending calibration standard analyzed outside the 12 hour window. The sample was analyzed outside the client requested 7 day hold time; however was analyzed within the method's 14 day hold time. The sample was not reanalyzed since the hold time had expired.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.68	J	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	14		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	12		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,100		6.39	21.1		1
07914	Boron	7440-42-8	7.60		0.380	5.28		1
01650	Calcium	7440-70-2	4,630		2.64	21.1		1
01654	Iron	7439-89-6	17,400		2.76	21.1		1
01656	Lithium	7439-93-2	23.5		0.65	2.1		1
01657	Magnesium	7439-95-4	3,590		0.465	10.6		1
06958	Manganese	7439-96-5	247		0.0380	0.528		1
10145	Phosphorus	7723-14-0	308		0.370	10.6		1
01662	Potassium	7440-09-7	2,630		11.9	52.8		1
01667	Sodium	7440-23-5	180		6.28	106		1
07968	Strontium	7440-24-6	19.8		0.0264	0.528		1

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Sample Description: SL-075-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA7-SB-9.0-10.0

LLI Sample # SW 6417443
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:26

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5118 SDG#: DE251-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06969	Tin	7440-31-5	2.32	J	0.338	10.6		1
06970	Titanium	7440-32-6	1,180		0.0779	1.10		1
10146	Zirconium	7440-67-7	0.966	J	0.486	5.28		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0789	U	0.0789	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.85		0.0853	0.426		2
06126	Barium	7440-39-3	74.5		0.113	0.426		2
06127	Beryllium	7440-41-7	0.498		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.137		0.0469	0.107		2
06131	Chromium	7440-47-3	13.8		0.128	0.426		2
06132	Cobalt	7440-48-4	4.51		0.0213	0.107		2
06133	Copper	7440-50-8	6.13		0.0853	0.426		2
06135	Lead	7439-92-1	6.44		0.0109	0.213		2
06138	Molybdenum	7439-98-7	0.469		0.0533	0.107		2
06139	Nickel	7440-02-0	9.10		0.107	0.426		2
06141	Selenium	7782-49-2	0.195	J	0.0618	0.426		2
06142	Silver	7440-22-4	0.0231	J	0.0151	0.107		2
06145	Thallium	7440-28-0	0.231		0.0320	0.107		2
06148	Vanadium	7440-62-2	27.4		0.0235	0.107		2
06149	Zinc	7440-66-6	83.7		0.597	3.20		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0137	J	0.0075	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8		0.90	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26	J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.74		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: **SL-075-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA7-SB-9.0-10.0

LLI Sample # SW 6417443
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:26

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5118 SDG#: DE251-18

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-075-SA7-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLA026	10/05/2011 14:25	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11273SLA026	10/09/2011 14:38	Chad A Moline	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11273SLA026	10/01/2011 08:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLA026	10/03/2011 10:10	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11270B34A	09/28/2011 05:45	Linda C Pape	22.56
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201126625634	09/23/2011 16:17	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201126625634	09/23/2011 16:18	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112690013A	10/01/2011 14:58	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112690013A	09/29/2011 11:00	Olivia Arosemena	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112700014A	09/29/2011 12:36	Elizabeth J Marin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112700014A	09/30/2011 04:48	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112770026A	10/05/2011 00:17	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112730009A	10/02/2011 03:10	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112730005A	10/04/2011 14:59	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112730005A	09/30/2011 13:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112730009A	09/30/2011 17:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112700014A	09/28/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112770026A	10/04/2011 16:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708005	10/03/2011 09:01	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112695708005	10/03/2011 09:01	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112695708005	10/03/2011 09:01	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112695708005	10/03/2011 09:01	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112695708005	10/03/2011 09:01	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112695708005	10/03/2011 09:01	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112695708005	10/03/2011 09:01	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112695708005	10/03/2011 09:01	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112695708005	10/03/2011 09:01	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112695708005	10/03/2011 09:01	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112695708005	10/03/2011 09:01	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112695708005	10/03/2011 09:01	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-075-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA7-SB-9.0-10.0

LLI Sample # SW 6417443
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:26

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5118 SDG#: DE251-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112775708002	10/05/2011 09:34	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112695708005	10/03/2011 09:01	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112691026001A	09/27/2011 22:20	David K Beck	2
06125	Arsenic	SW-846 6020	1	112691026001A	09/27/2011 22:20	David K Beck	2
06126	Barium	SW-846 6020	1	112691026001D	09/27/2011 22:20	David K Beck	2
06127	Beryllium	SW-846 6020	1	112691026001A	09/27/2011 22:20	David K Beck	2
06128	Cadmium	SW-846 6020	1	112691026001A	09/27/2011 22:20	David K Beck	2
06131	Chromium	SW-846 6020	1	112691026001A	09/27/2011 22:20	David K Beck	2
06132	Cobalt	SW-846 6020	1	112691026001A	09/27/2011 22:20	David K Beck	2
06133	Copper	SW-846 6020	1	112691026001A	09/27/2011 22:20	David K Beck	2
06135	Lead	SW-846 6020	1	112691026001A	09/27/2011 22:20	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112691026001C	09/27/2011 22:20	David K Beck	2
06139	Nickel	SW-846 6020	1	112691026001A	09/27/2011 22:20	David K Beck	2
06141	Selenium	SW-846 6020	1	112691026001B	09/27/2011 22:20	David K Beck	2
06142	Silver	SW-846 6020	1	112691026001A	09/27/2011 22:20	David K Beck	2
06145	Thallium	SW-846 6020	1	112691026001A	09/27/2011 22:20	David K Beck	2
06148	Vanadium	SW-846 6020	1	112691026001A	09/27/2011 22:20	David K Beck	2
06149	Zinc	SW-846 6020	1	112691026001A	09/27/2011 22:20	David K Beck	2
00159	Mercury	SW-846 7471A	1	112695711003	09/27/2011 19:46	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708005	09/27/2011 12:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708002	10/04/2011 13:57	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112775708002	10/04/2011 22:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026001	09/27/2011 12:48	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711003	09/27/2011 14:14	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11272621202B	09/30/2011 17:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11272621203B	09/30/2011 00:29	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11277243201A	10/05/2011 18:25	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11272621202B	09/29/2011 05:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11272621203B	09/29/2011 05:50	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11279039401B	10/06/2011 11:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11277243201A	10/04/2011 20:55	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162402B	09/28/2011 20:26	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-077-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA7-SB-4.0-5.0

LLI Sample # SW 6417444
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 09:31

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5119 SDG#: DE251-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	70	U	70	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	70	U	70	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-077-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-077-SA7-SB-4.0-5.0

LLI Sample # SW 6417444
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 09:31

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5119 SDG#: DE251-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	1.3	J	0.70	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.3	U	6.3	19		1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.8		1
10138	Fluorene	86-73-7	0.77	J	0.70	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.86	J	0.70	1.8		1
10138	2-Methylnaphthalene	91-57-6	1.7	J	0.70	1.8		1
10138	Naphthalene	91-20-3	2.1		0.70	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	1.0	J	0.70	1.8		1
10138	Pyrene	129-00-0	0.70	U	0.70	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		23.15
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1

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Sample Description: **SL-077-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-077-SA7-SB-4.0-5.0

LLI Sample # SW 6417444
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 09:31

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5119 SDG#: DE251-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
	The sample was analyzed after the initial calibration with the ending calibration standard analyzed outside the 12 hour window. The sample was not reanalyzed since the hold time had expired.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C21-C30)	n.a.	1.5		0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	5.4		0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,000		6.33	20.9		1
07914	Boron	7440-42-8	6.16		0.377	5.23		1
01650	Calcium	7440-70-2	1,760		2.62	20.9		1
01654	Iron	7439-89-6	20,000		2.73	20.9		1
01656	Lithium	7439-93-2	31.5		0.65	2.1		1
01657	Magnesium	7439-95-4	3,950		0.461	10.5		1
06958	Manganese	7439-96-5	342		0.0377	0.523		1
10145	Phosphorus	7723-14-0	368		0.366	10.5		1
01662	Potassium	7440-09-7	3,950		11.8	52.3		1
01667	Sodium	7440-23-5	89.4	J	6.23	105		1
07968	Strontium	7440-24-6	11.3		0.0262	0.523		1
06969	Tin	7440-31-5	2.77	J	0.335	10.5		1
06970	Titanium	7440-32-6	1,260		0.0729	1.03		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-077-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA7-SB-4.0-5.0

LLI Sample # SW 6417444
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 09:31

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5119 SDG#: DE251-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
10146	Zirconium	7440-67-7	0.481 U	0.481	5.23		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0774 U	0.0774	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.94	0.0837	0.419		2
06126	Barium	7440-39-3	85.1	0.111	0.419		2
06127	Beryllium	7440-41-7	0.430	0.0167	0.105		2
06128	Cadmium	7440-43-9	0.0681 J	0.0461	0.105		2
06131	Chromium	7440-47-3	11.9	0.126	0.419		2
06132	Cobalt	7440-48-4	5.13	0.0209	0.105		2
06133	Copper	7440-50-8	5.15	0.0837	0.419		2
06135	Lead	7439-92-1	3.99	0.0107	0.209		2
06138	Molybdenum	7439-98-7	0.469	0.0523	0.105		2
06139	Nickel	7440-02-0	8.22	0.105	0.419		2
06141	Selenium	7782-49-2	0.0815 J	0.0607	0.419		2
06142	Silver	7440-22-4	0.0219 J	0.0149	0.105		2
06145	Thallium	7440-28-0	0.276	0.0314	0.105		2
06148	Vanadium	7440-62-2	23.4	0.0230	0.105		2
06149	Zinc	7440-66-6	70.8	0.586	3.14		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0072 U	0.0072	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.1	0.85	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5 U	9.5	31.7		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.27 J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.05	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.4	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-077-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA7-SB-4.0-5.0

LLI Sample # SW 6417444
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 09:31

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5119 SDG#: DE251-19

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-077-SA7-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLA026	10/05/2011 14:50	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11273SLA026	10/09/2011 15:11	Chad A Moline	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11273SLA026	10/01/2011 08:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLA026	10/03/2011 10:10	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11270B34A	09/28/2011 06:22	Linda C Pape	23.15
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201126625634	09/23/2011 16:19	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201126625634	09/23/2011 16:19	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112690013A	10/01/2011 15:17	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112690013A	09/29/2011 11:00	Olivia Arosemena	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112700014A	09/29/2011 12:54	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112770026A	10/05/2011 00:30	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112730009A	10/02/2011 01:47	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112730005A	10/04/2011 15:23	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112730005A	09/30/2011 13:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112730009A	09/30/2011 17:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112700014A	09/28/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112770026A	10/04/2011 16:10	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708005	10/03/2011 09:05	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112695708005	10/03/2011 09:05	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112695708005	10/03/2011 09:05	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112695708005	10/03/2011 09:05	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112695708005	10/03/2011 09:05	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112695708005	10/03/2011 09:05	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112695708005	10/03/2011 09:05	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112695708005	10/03/2011 09:05	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112695708005	10/03/2011 09:05	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112695708005	10/03/2011 09:05	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112695708005	10/03/2011 09:05	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112695708005	10/03/2011 09:05	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112775708002	10/05/2011 09:38	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112695708005	10/03/2011 09:05	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **SL-077-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-077-SA7-SB-4.0-5.0

LLI Sample # SW 6417444
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 09:31

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5119 SDG#: DE251-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112691026001A	09/27/2011 22:23	David K Beck	2
06125	Arsenic	SW-846 6020	1	112691026001A	09/27/2011 22:23	David K Beck	2
06126	Barium	SW-846 6020	1	112691026001D	09/27/2011 22:23	David K Beck	2
06127	Beryllium	SW-846 6020	1	112691026001A	09/27/2011 22:23	David K Beck	2
06128	Cadmium	SW-846 6020	1	112691026001A	09/27/2011 22:23	David K Beck	2
06131	Chromium	SW-846 6020	1	112691026001A	09/27/2011 22:23	David K Beck	2
06132	Cobalt	SW-846 6020	1	112691026001A	09/27/2011 22:23	David K Beck	2
06133	Copper	SW-846 6020	1	112691026001A	09/27/2011 22:23	David K Beck	2
06135	Lead	SW-846 6020	1	112691026001A	09/27/2011 22:23	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112691026001C	09/27/2011 22:23	David K Beck	2
06139	Nickel	SW-846 6020	1	112691026001A	09/27/2011 22:23	David K Beck	2
06141	Selenium	SW-846 6020	1	112691026001B	09/27/2011 22:23	David K Beck	2
06142	Silver	SW-846 6020	1	112691026001A	09/27/2011 22:23	David K Beck	2
06145	Thallium	SW-846 6020	1	112691026001A	09/27/2011 22:23	David K Beck	2
06148	Vanadium	SW-846 6020	1	112691026001A	09/27/2011 22:23	David K Beck	2
06149	Zinc	SW-846 6020	1	112691026001A	09/27/2011 22:23	David K Beck	2
00159	Mercury	SW-846 7471A	1	112695711003	09/27/2011 19:47	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708005	09/27/2011 12:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708002	10/04/2011 13:57	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112775708002	10/04/2011 22:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026001	09/27/2011 12:48	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711003	09/27/2011 14:14	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11272621202B	09/30/2011 17:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11272621203B	09/30/2011 00:52	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11277243201A	10/05/2011 18:38	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11272621202B	09/29/2011 05:45	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11272621203B	09/29/2011 05:50	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11279039401B	10/06/2011 11:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11277243201A	10/04/2011 20:55	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162402B	09/28/2011 20:26	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **TB-092211 Water**
SSFL Area IV Collocated Soil Sampling
TB-092211

LLI Sample # WW 6417445
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:00

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5120 SDG#: DE251-20TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11277B20A	10/05/2011	12:54	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11277B20A	10/05/2011	12:54	Marie D John	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **EB-SA7-SB-092211 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-092211

LLI Sample # WW 6417446
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 13:00

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5121 SDG#: DE251-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Acetone	67-64-1	22		6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB-SA7-SB-092211 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-092211

LLI Sample # WW 6417446
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 13:00

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5121 SDG#: DE251-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	3	J	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	3.19		0.525	1.05		1

The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.

N-Nitrosodimethylamine was detected in the method blank at a concentration of 1.47 ng/l. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and comparable data was observed. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	Aniline	62-53-3	1	U	1	6		1
04678	Benzidine	92-87-5	22	U	22	67		1
04678	Benzoic acid	65-85-0	7	U	7	17		1
04678	Benzyl alcohol	100-51-6	6	U	6	17		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	6		1
04678	2-butoxy-Ethanol	111-76-2	50	U	50	50		1
04678	Carbazole	86-74-8	1	U	1	6		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	6		1
04678	4-Chloroaniline	106-47-8	1	U	1	6		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	6		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	6		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	6		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	6		1
04678	2-Chlorophenol	95-57-8	1	U	1	6		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB-SA7-SB-092211 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-092211

LLI Sample # WW 6417446
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 13:00

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5121 SDG#: DE251-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	6		1
04678	Dibenzofuran	132-64-9	1	U	1	6		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	6		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	6		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	6		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	6		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	6		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	11		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	11		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	6	U	6	17		1
04678	2,4-Dinitrophenol	51-28-5	11	U	11	34		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	6		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	6		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	6		1
04678	Hexachlorobenzene	118-74-1	1	U	1	6		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	6		1
04678	Hexachlorocyclopentadiene	77-47-4	6	U	6	17		1
04678	Hexachloroethane	67-72-1	1	U	1	6		1
04678	Isophorone	78-59-1	1	U	1	6		1
04678	2-Methylphenol	95-48-7	1	U	1	6		1
04678	4-Methylphenol	106-44-5	2	U	2	6		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	6		1
04678	3-Nitroaniline	99-09-2	1	U	1	6		1
04678	4-Nitroaniline	100-01-6	1	U	1	6		1
04678	Nitrobenzene	98-95-3	1	U	1	6		1
04678	2-Nitrophenol	88-75-5	1	U	1	6		1
04678	4-Nitrophenol	100-02-7	11	U	11	34		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	6		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	6		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	17		1
04678	Phenol	108-95-2	1	U	1	6		1
04678	2-phenoxy-Ethanol	122-99-6	50	U	50	50		1
04678	Tetralin	119-64-2	6	U	6	6		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	6		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	6		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	6		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.051		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.051		1

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Sample Description: **EB-SA7-SB-092211 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-092211

LLI Sample # WW 6417446
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 13:00

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5121 SDG#: DE251-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Anthracene	120-12-7	0.010	U	0.010	0.051		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.051		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.051		1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.051		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.051		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.051		1
10137	Butylbenzylphthalate	85-68-7	0.051	U	0.051	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.82	J	0.051	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.051		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.051		1
10137	Diethylphthalate	84-66-2	0.34	J	0.051	1.0		1
10137	Dimethylphthalate	131-11-3	0.051	U	0.051	1.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.15	J	0.051	1.0		1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.051		1
10137	Fluorene	86-73-7	0.010	U	0.010	0.051		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.051		1
10137	1-Methylnaphthalene	90-12-0	0.010	U	0.010	0.051		1
10137	2-Methylnaphthalene	91-57-6	0.010	U	0.010	0.051		1
10137	Naphthalene	91-20-3	0.060		0.031	0.051		1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.051		1
10137	Di-n-octylphthalate	117-84-0	0.051	U	0.051	1.0		1
10137	Phenanthrene	85-01-8	0.031	U	0.031	0.051		1
10137	Pyrene	129-00-0	0.010	U	0.010	0.051		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of .13 ug/l. The blank value was not subtracted from the analytical result.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

A preserved vial was submitted for analysis. However, the pH at the time of analysis was 6.

Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.77		0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1

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Sample Description: **EB-SA7-SB-092211 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-092211

LLI Sample # WW 6417446
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 13:00

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5121 SDG#: DE251-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	3.0		0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	20b Formaldehyde 8315A	50-00-0	10	U	10	50		1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.11	U	0.11	0.54		1
10227	Aroclor 5442	12642-23-8	0.11	U	0.11	0.54		1
10227	Aroclor 5460	11126-42-4	0.11	U	0.11	0.54		1
10227	PCB-1016	12674-11-2	0.11	U	0.11	0.54		1
10227	PCB-1221	11104-28-2	0.11	U	0.11	0.54		1
10227	PCB-1232	11141-16-5	0.22	U	0.22	0.54		1
10227	PCB-1242	53469-21-9	0.11	U	0.11	0.54		1
10227	PCB-1248	12672-29-6	0.11	U	0.11	0.54		1
10227	PCB-1254	11097-69-1	0.11	U	0.11	0.54		1
10227	PCB-1260	11096-82-5	0.16	U	0.16	0.54		1
10227	PCB-1262	37324-23-5	0.22	U	0.22	0.54		1
10227	PCB-1268	11100-14-4	0.17	U	0.17	0.54		1
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1

The sample was analyzed after the initial calibration with the ending calibration standard analyzed outside the 12 hour window.
The sample was not reanalyzed since the hold time had expired.

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Sample Description: **EB-SA7-SB-092211 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-092211

LLI Sample # WW 6417446
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 13:00

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5121 SDG#: DE251-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	20	U	20	200		1
08278	Ethylene glycol	107-21-1	20	U	20	200		1
08278	Propylene glycol	57-55-6	20	U	20	200		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.083	U	0.083	0.26		1
10319	o-Terphenyl	84-15-1	0.083	U	0.083	0.26		1
10319	p-Terphenyl	92-94-4	0.083	U	0.083	0.26		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.11	U	0.11	0.67		1
10365	EFH (C15-C20)	n.a.	0.11	U	0.11	0.67		1
10365	EFH (C21-C30)	n.a.	0.11	U	0.11	0.67		1
10365	EFH (C30 - C40)	n.a.	0.11	U	0.11	0.67		1
10365	EFH (C8-C11)	n.a.	0.11	U	0.11	0.67		1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0801	U	0.0801	0.200		1
08014	Boron	7440-42-8	0.0033	J	0.0022	0.0500		1
01750	Calcium	7440-70-2	0.0705	U	0.0705	0.200		1
01754	Iron	7439-89-6	0.0141	U	0.0141	0.200		1
01756	Lithium	7439-93-2	0.0076	U	0.0076	0.0200		1
01757	Magnesium	7439-95-4	0.0067	U	0.0067	0.100		1
07058	Manganese	7439-96-5	0.00044	U	0.00044	0.0050		1
10143	Phosphorus	7723-14-0	0.0047	U	0.0047	0.100		1
01762	Potassium	7440-09-7	0.0874	U	0.0874	0.500		1
01767	Sodium	7440-23-5	0.0647	U	0.0647	1.00		1
08068	Strontium	7440-24-6	0.00022	U	0.00022	0.0050		1
07069	Tin	7440-31-5	0.0043	U	0.0043	0.0200		1
07070	Titanium	7440-32-6	0.00046	U	0.00046	0.0100		1
10144	Zirconium	7440-67-7	0.0042	U	0.0042	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00042	U	0.00042	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00069	U	0.00069	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.00042	J	0.000080	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00027	U	0.00027	0.0020		1

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Sample Description: **EB-SA7-SB-092211 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-092211

LLI Sample # WW 6417446
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 13:00

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5121 SDG#: DE251-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06042	Silver	7440-22-4	0.000098 U	0.000098	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00018 U	0.00018	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000041 J	0.000026	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050 U	0.050	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9012B		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
08255	16b Cyanide by 9012B	57-12-5	0.0050 U	0.0050	0.010		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	17b pH by 9040B	n.a.	5.4	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260B	SW-846 8260B	1	Y112722AA	09/29/2011 20:03	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E112661AB	09/26/2011 11:12	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E112661AB	09/26/2011 11:12	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y112722AA	09/29/2011 20:03	Frank A Valla, Jr	1
10962	21b NDMA by 1625C	EPA 1625C	1	11269WAA026	10/03/2011 18:51	Matthew S Woods	1
04678	5b Semivolatiles by 8270C	SW-846 8270C	1	11267WAH026	10/04/2011 05:12	Jennifer R Riggs	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11267WAI026	10/01/2011 23:23	Gregory J Drahovsky	1

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Sample Description: EB-SA7-SB-092211 Water
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-092211

LLI Sample # WW 6417446
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 13:00

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5121 SDG#: DE251-21EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00813	BNA Water Extraction	SW-846 3510C	1	11267WAH026	09/27/2011 16:05	Nicholas W Shroyer	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11267WAI026	09/27/2011 16:05	Nicholas W Shroyer	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11269WAA026	09/28/2011 15:10	Wanda F Oswald	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11277B20A	10/05/2011 13:16	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11277B20A	10/05/2011 13:16	Marie D John	1
10131	15b Energetics by 8330A	SW-846 8330A	1	112670063A	10/04/2011 02:04	James H Place	1
04144	20b Formaldehyde 8315A	SW-846 8315A	1	112660030A	09/26/2011 18:14	James H Place	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	112670054A	09/30/2011 16:07	Jamie L Brillhart	1
11117	PCB Waters Extraction	SW-846 3510C	1	112670054A	09/28/2011 12:45	Denise L Trimby	1
01013	Formaldehyde Extraction	SW-846 8315A	1	112660030A	09/24/2011 07:00	Sally L Appleyard	1
11122	Energetics Extraction	SW-846 8330	1	112670063A	09/28/2011 17:40	Kelli M Barto	1
06624	18b Alcohols by 8015B	SW-846 8015B	1	112700016A	09/29/2011 03:31	Elizabeth J Marin	1
08278	19b Glycols by 8015B	SW-846 8015B modified	1	112710013A	09/28/2011 22:57	Tyler O Griffin	1
10319	22b Terphenyls by 8015B	SW-846 8015B	1	112670020A	09/29/2011 23:03	Heather E Williams	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112670036A	10/02/2011 03:47	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	112670036A	09/27/2011 22:30	Elaine F Stoltzfus	1
10304	Terphenyls water prep	SW-846 3510C	1	112670020A	09/27/2011 02:00	Sherry L Morrow	1
01743	Aluminum	SW-846 6010B	1	112661848004	09/26/2011 04:51	Tara L Snyder	1
08014	Boron	SW-846 6010B	1	112661848004	09/26/2011 04:51	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	112661848004	09/26/2011 04:51	Tara L Snyder	1
01754	Iron	SW-846 6010B	1	112661848004	09/26/2011 04:51	Tara L Snyder	1
01756	Lithium	SW-846 6010B	1	112661848004	09/26/2011 04:51	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	112661848004	09/27/2011 07:02	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	112661848004	09/26/2011 04:51	Tara L Snyder	1
10143	Phosphorus	SW-846 6010B	1	112661848004	09/26/2011 04:51	Tara L Snyder	1
01762	Potassium	SW-846 6010B	1	112661848004	09/26/2011 04:51	Tara L Snyder	1
01767	Sodium	SW-846 6010B	1	112661848004	09/26/2011 04:51	Tara L Snyder	1
08068	Strontium	SW-846 6010B	1	112661848004	09/26/2011 04:51	Tara L Snyder	1
07069	Tin	SW-846 6010B	1	112661848004	09/26/2011 04:51	Tara L Snyder	1
07070	Titanium	SW-846 6010B	1	112661848004	09/26/2011 04:51	Tara L Snyder	1
10144	Zirconium	SW-846 6010B	1	112661848004	09/26/2011 04:51	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	112666050006A	09/26/2011 10:26	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	112666050006A	09/26/2011 10:26	Choon Y Tian	1
06026	Barium	SW-846 6020	1	112666050006D	09/26/2011 10:26	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	112666050006A	09/26/2011 10:26	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	112666050006A	09/26/2011 10:26	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	112666050006A	09/26/2011 10:26	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	112666050006A	09/26/2011 10:26	Choon Y Tian	1
06033	Copper	SW-846 6020	1	112666050006A	09/26/2011 10:26	Choon Y Tian	1
06035	Lead	SW-846 6020	1	112666050006A	09/26/2011 10:26	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	112666050006C	09/26/2011 10:26	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	112666050006A	09/26/2011 10:26	Choon Y Tian	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB-SA7-SB-092211 Water
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-092211

LLI Sample # WW 6417446
LLI Group # 1268060
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 13:00

Submitted: 09/23/2011 09:20
Reported: 10/20/2011 13:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5121 SDG#: DE251-21EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06041	Selenium	SW-846 6020	1	112666050006B	09/26/2011 10:26	Choon Y Tian	1
06042	Silver	SW-846 6020	1	112666050006A	09/26/2011 10:26	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	112666050006A	09/26/2011 10:26	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	112666050006A	09/26/2011 10:26	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	112666050006A	09/26/2011 10:26	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	112695713007	09/28/2011 10:26	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	112661848004	09/25/2011 10:43	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	112666050006	09/25/2011 11:26	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	112695713007	09/27/2011 17:32	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11266196902B	09/24/2011 10:16	Ashley M Adams	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11266196902B	09/24/2011 10:16	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11266281101A	09/24/2011 01:58	Elyse P Brunstetter	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11266281401A	09/23/2011 13:10	Elyse P Brunstetter	1
08255	16b Cyanide by 9012B	SW-846 9012B	1	11276117101B	10/03/2011 19:24	Joseph E McKenzie	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11276117101B	10/03/2011 10:10	Nancy J Shoop	1
00200	17b pH by 9040B	SW-846 9040B	1	11270020001A	09/27/2011 20:00	Luz M Groff	1

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268060
Reported: 10/20/11 at 01:01 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: E112661AB	Sample number(s): 6417446									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	106		80-123		
Batch number: Y112722AA	Sample number(s): 6417446									
Acetone	6	U	6.	20	ug/l	133	112	49-234	17	30
Benzene	0.5	U	0.5	5	ug/l	101	100	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	106	102	80-120	3	30
Bromochloromethane	1	U	1.	5	ug/l	106	101	80-120	4	30
Bromodichloromethane	1	U	1.	5	ug/l	98	95	80-120	4	30
Bromoform	1	U	1.	5	ug/l	93	90	61-120	3	30
Bromomethane	1	U	1.	5	ug/l	77	77	44-120	0	30
2-Butanone	3	U	3.	10	ug/l	111	103	66-151	7	30
n-Butylbenzene	1	U	1.	5	ug/l	105	101	74-120	3	30
sec-Butylbenzene	1	U	1.	5	ug/l	109	106	78-120	3	30
tert-Butylbenzene	1	U	1.	5	ug/l	105	101	80-120	4	30
Carbon Tetrachloride	1	U	1.	5	ug/l	98	96	75-123	3	30
Chlorobenzene	0.8	U	0.8	5	ug/l	106	102	80-120	4	30
Chloroethane	1	U	1.	5	ug/l	72	72	49-129	0	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	111	109	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	101	100	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	84	81	60-129	4	30
2-Chlorotoluene	1	U	1.	5	ug/l	106	102	80-120	4	30
4-Chlorotoluene	1	U	1.	5	ug/l	106	102	80-120	5	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	56	57	38-136	2	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	97	90	56-126	8	30
Dibromochloromethane	1	U	1.	5	ug/l	98	93	80-120	5	30
1,2-Dibromoethane	1	U	1.	5	ug/l	103	99	80-120	4	30
Dibromomethane	1	U	1.	5	ug/l	101	99	80-120	3	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	106	103	80-120	3	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	107	103	80-120	3	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	106	102	80-120	4	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	72	69	47-120	4	30
1,1-Dichloroethane	1	U	1.	5	ug/l	99	97	79-120	2	30
1,2-Dichloroethane	1	U	1.	5	ug/l	99	94	70-130	6	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	87	85	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	102	101	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	99	97	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	102	99	78-120	3	30
1,3-Dichloropropane	1	U	1.	5	ug/l	102	99	80-120	3	30
2,2-Dichloropropane	1	U	1.	5	ug/l	100	97	77-124	3	30
1,1-Dichloropropene	1	U	1.	5	ug/l	99	97	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	98	95	80-120	4	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	98	95	79-120	2	30
Ethylbenzene	0.8	U	0.8	5	ug/l	105	102	79-120	3	30
Freon 113	2	U	2.	10	ug/l	89	88	69-128	2	30
Freon 133a	2	U	2.	5	ug/l	77	78	77-120	1	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268060
Reported: 10/20/11 at 01:01 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Hexachlorobutadiene	2	U	2.	5	ug/l	100	97	58-120	3	30
2-Hexanone	3	U	3.	10	ug/l	101	97	65-136	4	30
Isopropylbenzene	1	U	1.	5	ug/l	108	105	77-120	3	30
p-Isopropyltoluene	1	U	1.	5	ug/l	107	104	80-120	3	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	99	96	76-120	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	96	93	70-121	3	30
Methylene Chloride	2	U	2.	5	ug/l	92	97	80-120	5	30
n-Propylbenzene	1	U	1.	5	ug/l	105	101	80-120	3	30
Styrene	1	U	1.	5	ug/l	107	104	80-120	3	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	103	100	80-120	4	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	102	98	71-120	4	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	104	102	80-121	2	30
Toluene	0.7	U	0.7	5	ug/l	104	101	79-120	3	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	104	100	65-120	4	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	106	102	67-120	4	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	98	97	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	105	102	80-120	3	30
Trichloroethene	1	U	1.	5	ug/l	102	100	80-120	3	30
Trichlorofluoromethane	2	U	2.	5	ug/l	86	84	64-129	3	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	102	98	80-120	4	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	108	104	74-120	3	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	108	103	75-120	4	30
Vinyl Chloride	1	U	1.	5	ug/l	83	81	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	106	102	80-120	3	30
o-Xylene	0.8	U	0.8	5	ug/l	105	102	80-120	3	30
Batch number: 11267WAH026	Sample number(s): 6417446									
Aniline	1	U	1.	5	ug/l	75	83	38-116	10	30
Benzidine	20	U	20.	60	ug/l	64	77	34-117	18	30
Benzoic acid	6	U	6.	15	ug/l	31	22	10-69	31*	30
Benzyl alcohol	5	U	5.	15	ug/l	82	84	66-97	2	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	96	104	75-115	8	30
2-butoxy-Ethanol	50	U	50.	50	ug/l					
Carbazole	1	U	1.	5	ug/l	102	111	75-120	9	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	96	105	70-123	8	30
4-Chloroaniline	1	U	1.	5	ug/l	76	91	24-128	18	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	95	103	74-124	9	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	98	103	77-108	5	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	87	94	62-127	8	30
2-Chloronaphthalene	2	U	2.	5	ug/l	80	88	54-132	10	30
2-Chlorophenol	1	U	1.	5	ug/l	101	101	71-114	0	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	92	98	77-114	6	30
Dibenzofuran	1	U	1.	5	ug/l	95	102	75-117	8	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	91	96	55-118	5	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	93	100	61-111	7	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	92	99	53-119	8	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	63	80	37-117	23	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	97	105	77-117	8	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	98	104	72-110	6	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	93	104	70-130	11	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	98	108	65-126	10	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	86	90	52-131	4	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	96	107	76-119	11	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	100	111	76-118	10	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	101	108	68-127	7	30
Hexachlorobenzene	1	U	1.	5	ug/l	95	101	75-119	6	30
Hexachlorobutadiene	1	U	1.	5	ug/l	86	100	57-124	15	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	73	83	36-118	13	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268060
Reported: 10/20/11 at 01:01 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Hexachloroethane	1	U	1.	5	ug/l	93	102	52-113	9	30
Isophorone	1	U	1.	5	ug/l	97	106	74-117	8	30
2-Methylphenol	1	U	1.	5	ug/l	86	88	58-110	3	30
4-Methylphenol	2	U	2.	5	ug/l	79	81	49-108	3	30
2-Nitroaniline	1	U	1.	5	ug/l	95	102	75-120	8	30
3-Nitroaniline	1	U	1.	5	ug/l	94	100	74-113	6	30
4-Nitroaniline	1	U	1.	5	ug/l	81	88	59-100	8	30
Nitrobenzene	1	U	1.	5	ug/l	98	111*	75-109	12	30
2-Nitrophenol	1	U	1.	5	ug/l	107	115	76-118	7	30
4-Nitrophenol	10	U	10.	30	ug/l	42	45	16-78	7	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	87	94	69-110	8	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	99	108	67-136	8	30
Pentachlorophenol	3	U	3.	15	ug/l	93	103	53-110	10	30
Phenol	1	U	1.	5	ug/l	47	48	21-67	2	30
2-phenoxy-Ethanol	50	U	50.	50	ug/l					
Tetralin	5	U	5.	5	ug/l					
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	91	104	71-112	14	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	98	102	79-107	4	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	104	111	76-120	6	30
Batch number: 11267WAI026	Sample number(s): 6417446									
Acenaphthene	0.010	U	0.010	0.050	ug/l	96	101	74-109	5	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	93	101	70-110	8	30
Anthracene	0.010	U	0.010	0.050	ug/l	97	105	66-111	8	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	95	103	72-114	8	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	94	101	60-127	7	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	110	114	58-151	4	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	95	101	57-131	6	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	99	111	59-130	11	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	54	61	40-138	11	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	95	103	56-148	8	30
Chrysene	0.010	U	0.010	0.050	ug/l	95	102	76-116	8	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	102	109	55-134	7	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	85	89	37-148	5	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	54	53	40-119	2	30
Bis(2-Ethylhexyl)phthalate	0.13	J	0.050	1.0	ug/l	93	104	57-154	11	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	102	109	75-116	7	30
Fluorene	0.010	U	0.010	0.050	ug/l	101	108	75-114	7	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	100	106	53-158	6	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	94	98	71-117	5	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	91	95	75-115	4	30
Naphthalene	0.030	U	0.030	0.050	ug/l	96	100	72-109	3	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	66	73	36-89	10	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	87	96	57-145	9	30
Phenanthrene	0.030	U	0.030	0.050	ug/l	97	103	76-111	6	30
Pyrene	0.010	U	0.010	0.050	ug/l	89	95	69-118	6	30
Batch number: 11269WAA026	Sample number(s): 6417446									
N-Nitrosodimethylamine	1.47		0.500	1.00	ng/l	95	112	70-130	16	30
Batch number: 11272SLB026	Sample number(s): 6417430									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	110		70-130		
Batch number: 11273SLA026	Sample number(s): 6417426-6417444									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	93		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	86		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	92		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	95		74-120		

*- Outside of specification

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(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268060
Reported: 10/20/11 at 01:01 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	96		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	99		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	103		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	101		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	105		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	103		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	96		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	105		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	91		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	95		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	112		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	100		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	94		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	103		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	79		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	79		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	80		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	78		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	105		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	90		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	92		72-119		
Batch number: 11274SLA026	Sample number(s): 6417426-6417439,6417441-6417444									
Aniline	170 U		170.	500	ug/kg	72		20-115		
Benzidine	1,200 U		1,200.	3,300	ug/kg	38		15-121		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	116		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	103		60-125		
Benzoic acid	170 U		170.	500	ug/kg	90		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	98		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	100		73-114		
Carbazole	17	U	17.	170	ug/kg	111		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	105		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	40		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	97		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	94		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	94		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	78		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	102		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	101		74-115		
Dibenzofuran	17	U	17.	170	ug/kg	101		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	89		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	90		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	89		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	46		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	102		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	103		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	109		83-120		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	81		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	74		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	111		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	110		79-115		

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268060
Reported: 10/20/11 at 01:01 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	106		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	105		75-117		
Fluoranthene	17	U	17.	170	ug/kg	120*		78-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	98		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	94		65-117		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	87		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	88		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	105		64-119		
Isophorone	17	U	17.	170	ug/kg	100		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	99		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	102		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	109		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	105		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	84		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	99		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	98		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	106		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	91		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	108		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	115		62-137		
Pentachlorophenol	170	U	170.	500	ug/kg	99		51-117		
Phenol	17	U	17.	170	ug/kg	101		58-112		
Pyrene	17	U	17.	170	ug/kg	103		75-115		
Tetralin	170	U	170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	92		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	105		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	106		78-111		
Batch number: 11277SLC026	Sample number(s): 6417440									
Aniline	170	U	170.	500	ug/kg	62		20-115		
Benzidine	1,200	U	1,200.	3,300	ug/kg	45		15-121		
Benzoic acid	170	U	170.	500	ug/kg	68		62-113		
Benzyl alcohol	170	U	170.	500	ug/kg	88		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	96		73-114		
Carbazole	17	U	17.	170	ug/kg	106		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	99		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	57		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	92		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	87		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	79		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	95		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	91		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	89		74-115		
Dibenzofuran	17	U	17.	170	ug/kg	95		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	81		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	81		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	76		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	62		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	95		75-111		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268060
Reported: 10/20/11 at 01:01 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-Dimethylphenol	33	U	33.	170	ug/kg	97		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	100		83-120		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	43*		46-120		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	19		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	99		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	106		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	103		71-125		
Hexachlorobenzene	17	U	17.	170	ug/kg	92		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	81		65-117		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	78		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	80		61-109		
Isophorone	17	U	17.	170	ug/kg	94		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	90		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	86		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	94		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	90		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	73		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	96		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	98		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	90		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	80		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	104		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	80		51-117		
Phenol	17	U	17.	170	ug/kg	86		58-112		
Tetralin	170	U	170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	86		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	99		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	101		78-111		
Batch number: 11270B34A	Sample number(s): 6417438-6417444									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	72	72	67-119	1	30
Batch number: 11277B20A	Sample number(s): 6417445-6417446									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	100	75-135	0	30
Batch number: 112670063A	Sample number(s): 6417446									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	100	100	80-120	0	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	97	97	80-120	0	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	90	87	50-122	4	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	90	87	50-122	4	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	100	100	72-117	0	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	95	95	80-120	0	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
HMX	0.65	U	0.65	2.0	ug/l	91	89	65-125	2	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	95	94	75-121	1	30
Nitroglycerin	5.2	U	5.2	15	ug/l	92	92	80-120	0	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	94	95	74-120	1	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	100	99	69-107	1	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	96	96	80-120	0	30
PETN	6.0	U	6.0	18	ug/l	100	100	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	87	86	70-125	1	30
Tetryl	0.40	U	0.40	0.60	ug/l	74	78	72-141	5	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268060
Reported: 10/20/11 at 01:01 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	83	83	53-129	0	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	99	99	76-109	0	30
Batch number: 112690017A	Sample number(s): 6417430									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	104		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	101		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	76	85	54-134	12	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	75	85	54-134	12	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	106		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	96		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	103		80-120		
HMX	100 U		100.	300	ug/kg	89		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	97		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	84		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	98		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	104		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	97		80-120		
PETN	800 U		800.	2,400	ug/kg	99		80-120		
RDX	50	U	50.	120	ug/kg	101		75-131		
Tetryl	61	U	61.	120	ug/kg	107		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	103		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	103		80-120		
Batch number: 112660030A	Sample number(s): 6417446									
20b Formaldehyde 8315A	10	U	10.	50	ug/l	96	96	69-130	0	30
Batch number: 112670064A	Sample number(s): 6417430									
20a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	98		80-126		
Batch number: 112740020A	Sample number(s): 6417426-6417437									
2,4-D	1.2	U	1.2	3.6	ug/kg	101		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	66		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	93		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	101		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	10		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	109		62-170		
MCPA	76	U	76.	250	ug/kg	82		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	71		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	101		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	88		68-114		
Batch number: 112770016A	Sample number(s): 6417427-6417431,6417433-6417437									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	98		85-115		
Batch number: 112670054A	Sample number(s): 6417446									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	68	68	35-84	0	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	98	92	51-128	6	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268060
Reported: 10/20/11 at 01:01 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	102	98	56-135	4	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 112690013A	Sample number(s): 6417426-6417444									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	85	93	36-106	9	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	101		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	114		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112690020A	Sample number(s): 6417426-6417437									
Aldrin	0.066	U	0.066	0.17	ug/kg	70		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	65		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	88		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	71		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	94		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	92		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	94		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	88		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	93		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	62		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	125		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	105		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	96		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	83		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	94		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	71		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	82		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	98		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 112700014A	Sample number(s): 6417427-6417431,6417433-6417444									
Ethanol	100	U	100.	500	ug/kg	97		71-129		
Isopropanol	100	U	100.	500	ug/kg	94		75-125		
Methanol	100	U	100.	500	ug/kg	96		68-129		
Batch number: 112700016A	Sample number(s): 6417446									
Ethanol	200	U	200.	1,000	ug/l	100		78-116		
Isopropanol	200	U	200.	1,000	ug/l	100		75-125		
Methanol	240	J	200.	1,000	ug/l	108		76-122		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268060
Reported: 10/20/11 at 01:01 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 112710013A	Sample number(s): 6417446								
Diethylene glycol	20 U	20.	200	mg/l	105	115	67-126	9	20
Ethylene glycol	20 U	20.	200	mg/l	95	84	78-136	12	20
Propylene glycol	20 U	20.	200	mg/l	90	80	65-132	12	20
Batch number: 112770026A	Sample number(s): 6417427-6417431,6417433-6417444								
Diethylene glycol	5.0 U	5.0	10	mg/kg	96		75-125		
Ethylene glycol	5.0 U	5.0	10	mg/kg	95		53-149		
Propylene glycol	5.0 U	5.0	10	mg/kg	85		67-131		
Batch number: 112670020A	Sample number(s): 6417446								
m-Terphenyl	0.080 U	0.080	0.25	mg/l	92	92	61-108	0	20
o-Terphenyl	0.080 U	0.080	0.25	mg/l	92	92	75-125	0	20
p-Terphenyl	0.080 U	0.080	0.25	mg/l	92	92	63-110	0	20
Batch number: 112670036A	Sample number(s): 6417446								
EFH (C12-C14)	0.10 U	0.10	0.60	mg/l	90	98	63-121	9	30
EFH (C15-C20)	0.10 U	0.10	0.60	mg/l	96	99	72-124	3	30
EFH (C21-C30)	0.10 U	0.10	0.60	mg/l	72	92	64-123	24	30
EFH (C30 - C40)	0.10 U	0.10	0.60	mg/l	80	100	73-124	22	30
EFH (C8-C11)	0.10 U	0.10	0.60	mg/l	82	88	43-107	7	30
Batch number: 112730005A	Sample number(s): 6417427-6417431,6417433-6417444								
EFH (C12-C14)	0.40 U	0.40	1.2	mg/kg	96		70-123		
EFH (C15-C20)	0.40 U	0.40	1.2	mg/kg	101		75-128		
EFH (C21-C30)	0.40 U	0.40	1.2	mg/kg	100		64-134		
EFH (C30 - C40)	0.40 U	0.40	1.2	mg/kg	95		65-128		
EFH (C8-C11)	0.40 U	0.40	1.2	mg/kg	86		49-107		
Batch number: 112730009A	Sample number(s): 6417427-6417431,6417433-6417444								
m-Terphenyl	1.5 U	1.5	3.5	mg/kg	90		64-111		
o-Terphenyl	1.5 U	1.5	3.5	mg/kg	91		75-125		
p-Terphenyl	1.5 U	1.5	3.5	mg/kg	92		69-109		
Batch number: 112661848004	Sample number(s): 6417446								
Aluminum	0.0801 U	0.0801	0.200	mg/l	102	106	90-112	4	20
Boron	0.0022 U	0.0022	0.0500	mg/l	95	93	89-110	2	20
Calcium	0.0705 U	0.0705	0.200	mg/l	103	105	90-112	3	20
Iron	0.0141 U	0.0141	0.200	mg/l	107	110	90-112	3	20
Lithium	0.0076 U	0.0076	0.0200	mg/l	101	104	80-120	3	20
Magnesium	0.0067 U	0.0067	0.100	mg/l	102	102	89-110	0	20
Manganese	0.00044 U	0.00044	0.0050	mg/l	102	100	90-110	2	20
Phosphorus	0.0047 U	0.0047	0.100	mg/l	100	100	80-120	0	20
Potassium	0.0874 U	0.0874	0.500	mg/l	100	103	85-115	3	20
Sodium	0.0647 U	0.0647	1.00	mg/l	99	102	87-114	3	20
Strontium	0.00022 U	0.00022	0.0050	mg/l	101	101	90-110	0	20
Tin	0.0043 U	0.0043	0.0200	mg/l	98	98	90-110	0	20
Titanium	0.00046 U	0.00046	0.0100	mg/l	100	99	90-113	2	20
Zirconium	0.0042 U	0.0042	0.0500	mg/l	102	105	80-120	3	20
Batch number: 112666050006A	Sample number(s): 6417446								
Antimony	0.00042 U	0.00042	0.0010	mg/l	102	106	87-110	4	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	104	99	86-111	5	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	103	104	90-113	1	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	106	102	90-114	3	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	101	103	90-118	2	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	103	103	87-113	1	20
Copper	0.00038 U	0.00038	0.0020	mg/l	100	102	90-113	2	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268060
Reported: 10/20/11 at 01:01 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Lead	0.000080 U	0.00008 0	0.0010	mg/l	103	102	90-115	1	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	105	106	90-113	1	20
Silver	0.000098 U	0.00009 8	0.00050	mg/l	103	103	90-115	0	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	106	103	89-116	3	20
Vanadium	0.00018 U	0.00018	0.00050	mg/l	102	104	89-116	2	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	102	106	90-116	4	20
Batch number: 112666050006B	Sample number(s): 6417446								
Selenium	0.00027 U	0.00027	0.0020	mg/l	102	105	85-114	3	20
Batch number: 112666050006C	Sample number(s): 6417446								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	101	103	89-115	2	20
Batch number: 112666050006D	Sample number(s): 6417446								
Barium	0.00069 U	0.00069	0.0020	mg/l	100	101	88-113	1	20
Batch number: 112691026001A	Sample number(s): 6417426-6417444								
Antimony	0.0733 U	0.0733	0.198	mg/kg	65		10-224		
Arsenic	0.0792 U	0.0792	0.396	mg/kg	102		78-122		
Beryllium	0.0158 U	0.0158	0.0990	mg/kg	105		80-120		
Cadmium	0.0436 U	0.0436	0.0990	mg/kg	101		81-119		
Chromium	0.119 U	0.119	0.396	mg/kg	108		77-123		
Cobalt	0.0198 U	0.0198	0.0990	mg/kg	103		80-119		
Copper	0.0792 U	0.0792	0.396	mg/kg	106		78-122		
Lead	0.0329 J	0.0101	0.198	mg/kg	102		77-123		
Nickel	0.0990 U	0.0990	0.396	mg/kg	103		80-120		
Silver	0.0141 U	0.0141	0.0990	mg/kg	104		66-134		
Thallium	0.0297 U	0.0297	0.0990	mg/kg	103		75-124		
Vanadium	0.0218 U	0.0218	0.0990	mg/kg	112		76-124		
Zinc	0.554 U	0.554	2.97	mg/kg	102		79-121		
Batch number: 112691026001B	Sample number(s): 6417426-6417444								
Selenium	0.0574 U	0.0574	0.396	mg/kg	103		77-123		
Batch number: 112691026001C	Sample number(s): 6417426-6417444								
Molybdenum	0.0495 U	0.0495	0.0990	mg/kg	104		76-123		
Batch number: 112691026001D	Sample number(s): 6417426-6417444								
Barium	0.105 U	0.105	0.396	mg/kg	103		80-120		
Batch number: 112695708005	Sample number(s): 6417426-6417444								
Aluminum	5.87 U	5.87	19.4	mg/kg	138		42-158		
Boron	0.350 U	0.350	4.85	mg/kg	108		66-134		
Calcium	3.28 J	2.43	19.4	mg/kg	102		79-121		
Iron	3.68 J	2.53	19.4	mg/kg	120		51-149		
Lithium	0.60 U	0.60	1.9	mg/kg	100		80-120		
Magnesium	0.427 U	0.427	9.71	mg/kg	117		64-136		
Manganese	0.0350 U	0.0350	0.485	mg/kg	97		78-122		
Phosphorus	1.15 J	0.340	9.71	mg/kg	103		80-120		
Potassium	11.0 U	11.0	48.5	mg/kg	112		69-131		
Sodium	5.78 U	5.78	97.1	mg/kg	108		71-129		
Strontium	0.0243 U	0.0243	0.485	mg/kg	102		81-119		
Tin	1.39 J	0.311	9.71	mg/kg	95		74-126		
Zirconium	0.447 U	0.447	4.85	mg/kg	101		80-120		
Batch number: 112695711003	Sample number(s): 6417426-6417444								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268060
Reported: 10/20/11 at 01:01 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Mercury	0.0066 U	0.0066	0.0936	mg/kg	95		72-128		
Batch number: 112695713007	Sample number(s): 6417446								
Mercury	0.000051 J	0.00002 6	0.00020	mg/l	98	95	80-120	2	20
Batch number: 112775708002	Sample number(s): 6417426-6417444								
Titanium	0.0840 J	0.0710	1.00	mg/kg	106		80-120		
Batch number: 11266196902B	Sample number(s): 6417446								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	92	90	90-110	3	20
11b Anions by 300.0 - Nitrate	0.050 U	0.050	0.10	mg/l	93	96	90-110	3	20
Batch number: 11266281101A	Sample number(s): 6417446								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	112	100	85-115	11	20
Batch number: 11266281401A	Sample number(s): 6417446								
3b Cr VI by EPA 7199	65.0 U	65.0	130	ug/l	103	104	90-110	1	20
Batch number: 11272621202A	Sample number(s): 6417426-6417435								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	93		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	104		90-110		
Batch number: 11272621202B	Sample number(s): 6417436-6417444								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	93		90-110		
Batch number: 11272621203A	Sample number(s): 6417426-6417435								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	102		85-115		
Batch number: 11272621203B	Sample number(s): 6417436-6417444								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	102		85-115		
Batch number: 11276117101B	Sample number(s): 6417446								
16b Cyanide by 9012B	0.0050 U	0.0050	0.010	mg/l	104	101	90-110	3	20
Batch number: 11277102202A	Sample number(s): 6417427-6417431,6417433-6417437								
16a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	96		80-120		
Batch number: 11277243201A	Sample number(s): 6417426-6417444								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	92		80-120		
Batch number: 11270020001A	Sample number(s): 6417446								
17b pH by 9040B					100	100	90-110	0	3
Batch number: 11279039401A	Sample number(s): 6417426-6417434								
17a pH by 9045C					100		95-105		
Batch number: 11279039401B	Sample number(s): 6417435-6417444								
17a pH by 9045C					100		95-105		
Batch number: 11271162402A	Sample number(s): 6417426-6417429,6417431-6417439								
Moisture Content by 160.3					100		80-120		
Batch number: 11271162402B	Sample number(s): 6417440-6417444								
Moisture Content by 160.3					100		80-120		
Batch number: 11284162402A	Sample number(s): 6417430								
Moisture Content by 160.3					100		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268060
Reported: 10/20/11 at 01:01 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: E112661AB	Sample number(s): 6417446 UNSPK: P415480								
1,4-Dioxane	102	106	73-138	2	30				
Batch number: 11272SLB026	Sample number(s): 6417430 UNSPK: P415790								
N-Nitrosodimethylamine	113	98	70-130	16	30				
Batch number: 11273SLA026	Sample number(s): 6417426-6417444 UNSPK: 6417427								
Acenaphthene	95	94	63-105	1	30				
Acenaphthylene	93	91	67-114	1	30				
Anthracene	101	96	73-115	4	30				
Benzo(a)anthracene	95	92	59-128	3	30				
Benzo(a)pyrene	98	90	58-142	7	30				
Benzo(b)fluoranthene	92	83	54-163	8	30				
Benzo(g,h,i)perylene	61	57	33-141	5	30				
Benzo(k)fluoranthene	84	80	57-153	3	30				
Butylbenzylphthalate	155	148	57-173	4	30				
Di-n-butylphthalate	87	72	65-148	12	30				
Chrysene	92	87	67-123	4	30				
Dibenz(a,h)anthracene	77	74	22-133	3	30				
Diethylphthalate	104	100	70-136	2	30				
Dimethylphthalate	100	97	74-118	2	30				
Bis(2-Ethylhexyl)phthalate	53	49	39-167	2	30				
Fluoranthene	100	86	51-149	11	30				
Fluorene	97	95	66-122	2	30				
Indeno(1,2,3-cd)pyrene	73	69	21-143	5	30				
1-Methylnaphthalene	90	86	72-123	4	30				
2-Methylnaphthalene	88	85	64-103	3	30				
Naphthalene	88	84	61-102	4	30				
N-Nitrosodimethylamine	90	86	48-113	4	30				
Di-n-octylphthalate	121	111	40-192	8	30				
Phenanthrene	90	79	62-122	10	30				
Pyrene	83	77	51-131	5	30				
Batch number: 11274SLA026	Sample number(s): 6417426-6417439,6417441-6417444 UNSPK: 6417426								
Aniline	70	66	18-116	7	30				
Benzidine	15*	0*	35-141	200*	30				
Benzo(b)fluoranthene	114	112	59-125	2	30				
Benzo(g,h,i)perylene	96	95	59-127	1	30				
Benzoic acid	66	66	10-173	1	30				
Benzyl alcohol	99	99	67-115	0	30				
4-Bromophenyl-phenylether	97	93	67-129	4	30				
Carbazole	105	102	64-120	3	30				
4-Chloro-3-methylphenol	107	104	62-122	3	30				
4-Chloroaniline	38	44	13-107	14	30				
bis(2-Chloroethoxy)methane	96	93	75-104	4	30				
bis(2-Chloroethyl)ether	96	91	60-116	5	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268060
Reported: 10/20/11 at 01:01 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
bis(2-Chloroisopropyl)ether	95	90	55-142	6	30				
2-Chloronaphthalene	76	75	50-141	2	30				
2-Chlorophenol	107	105	73-121	2	30				
4-Chlorophenyl-phenylether	99	97	80-109	2	30				
Dibenzofuran	100	99	71-112	1	30				
1,2-Dichlorobenzene	92	89	66-108	3	30				
1,3-Dichlorobenzene	90	87	63-109	4	30				
1,4-Dichlorobenzene	91	86	58-108	6	30				
3,3'-Dichlorobenzidine	40	39	28-109	2	30				
2,4-Dichlorophenol	107	102	66-123	5	30				
2,4-Dimethylphenol	104	102	68-118	2	30				
3,5-Dimethylphenol	108	107	71-127	1	30				
4,6-Dinitro-2-methylphenol	87	83	11-126	5	30				
2,4-Dinitrophenol	69	64	20-143	7	30				
2,4-Dinitrotoluene	110	106	56-129	4	30				
2,6-Dinitrotoluene	110	106	69-123	4	30				
1,2-Diphenylhydrazine	102	99	71-129	3	30				
bis(2-Ethylhexyl)phthalate	101	97	63-122	4	30				
Fluoranthene	111	109	73-112	3	30				
Hexachlorobenzene	94	91	77-114	3	30				
Hexachlorobutadiene	92	86	62-120	6	30				
Hexachlorocyclopentadiene	92	81	10-153	12	30				
Hexachloroethane	91	87	57-109	4	30				
Indeno(1,2,3-cd)pyrene	100	100	61-126	1	30				
Isophorone	99	96	73-102	3	30				
2-Methylphenol	104	103	75-111	1	30				
4-Methylphenol	106	104	59-123	2	30				
2-Nitroaniline	111	108	67-125	3	30				
3-Nitroaniline	105	102	59-122	4	30				
4-Nitroaniline	85	82	41-109	3	30				
Nitrobenzene	101	96	57-125	5	30				
2-Nitrophenol	102	98	56-127	4	30				
4-Nitrophenol	103	102	37-129	2	30				
N-Nitroso-di-n-propylamine	93	90	60-116	3	30				
N-Nitrosodiphenylamine	104	100	71-122	4	30				
Di-n-octylphthalate	118	119	56-126	0	30				
Pentachlorophenol	99	96	28-127	4	30				
Phenol	105	103	58-126	2	30				
Pyrene	101	98	74-126	3	30				
1,2,4-Trichlorobenzene	93	88	72-115	6	30				
2,4,5-Trichlorophenol	106	105	58-129	1	30				
2,4,6-Trichlorophenol	107	104	56-134	4	30				
Batch number: 11277SLC026	Sample number(s): 6417440 UNSPK: P419491								
Aniline	61	62	18-116	3	30				
Benzidine	0*	0*	35-141	0	30				
Benzoic acid	57	40	10-173	34*	30				
Benzyl alcohol	98	95	67-115	2	30				
4-Bromophenyl-phenylether	102	98	67-129	3	30				
Carbazole	104	100	64-120	3	30				
4-Chloro-3-methylphenol	98	99	62-122	2	30				
4-Chloroaniline	41	38	13-107	7	30				
bis(2-Chloroethoxy)methane	93	91	75-104	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268060
Reported: 10/20/11 at 01:01 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
bis(2-Chloroethyl)ether	90	89	60-116	1	30				
bis(2-Chloroisopropyl)ether	84	81	55-142	2	30				
2-Chloronaphthalene	88	81	50-141	8	30				
2-Chlorophenol	99	98	73-121	0	30				
4-Chlorophenyl-phenylether	94	87	80-109	6	30				
Dibenzofuran	98	93	71-112	4	30				
1,2-Dichlorobenzene	82	83	66-108	3	30				
1,3-Dichlorobenzene	81	82	63-109	3	30				
1,4-Dichlorobenzene	80	81	58-108	3	30				
3,3'-Dichlorobenzidine	62	65	28-109	6	30				
2,4-Dichlorophenol	97	95	66-123	1	30				
2,4-Dimethylphenol	101	97	68-118	2	30				
3,5-Dimethylphenol	97	95	71-127	0	30				
4,6-Dinitro-2-methylphenol	63	55	11-126	12	30				
2,4-Dinitrophenol	34	23	20-143	36*	30				
2,4-Dinitrotoluene	92	87	56-129	5	30				
2,6-Dinitrotoluene	99	97	69-123	1	30				
1,2-Diphenylhydrazine	109	106	71-129	2	30				
Hexachlorobenzene	93	92	77-114	0	30				
Hexachlorobutadiene	84	83	62-120	0	30				
Hexachlorocyclopentadiene	49	42	10-153	13	30				
Hexachloroethane	74	77	57-109	5	30				
Isophorone	94	93	73-102	0	30				
2-Methylphenol	99	96	75-111	1	30				
4-Methylphenol	94	88	59-123	5	30				
2-Nitroaniline	96	90	67-125	6	30				
3-Nitroaniline	91	86	59-122	5	30				
4-Nitroaniline	82	67	41-109	19	30				
Nitrobenzene	94	98	57-125	5	30				
2-Nitrophenol	97	97	56-127	2	30				
4-Nitrophenol	92	86	37-129	6	30				
N-Nitroso-di-n-propylamine	86	86	60-116	2	30				
N-Nitrosodiphenylamine	110	105	71-122	3	30				
Pentachlorophenol	46	68	28-127	39*	30				
Phenol	95	92	58-126	2	30				
1,2,4-Trichlorobenzene	87	89	72-115	3	30				
2,4,5-Trichlorophenol	98	94	58-129	2	30				
2,4,6-Trichlorophenol	109	98	56-134	10	30				
Batch number: 112690017A	Sample number(s): 6417430 UNSPK: P414168								
4-Amino-2,6-Dinitrotoluene	107	113	80-127	6	50				
2-Amino-4,6-Dinitrotoluene	105	114	80-137	7	50				
1,3-Dinitrobenzene	109	117	38-166	7	50				
2,4-Dinitrotoluene	100	108	80-131	8	50				
2,6-Dinitrotoluene	104	111	80-127	6	50				
HMX	91	97	63-128	6	50				
Nitrobenzene	101	106	80-125	5	50				
Nitroglycerin	98	104	80-120	7	50				
2-Nitrotoluene	101	108	80-122	7	50				
3-Nitrotoluene	107	115	72-119	7	50				
4-Nitrotoluene	100	107	80-125	7	50				
PETN	106	114	80-121	7	50				
RDX	98	106	75-129	8	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268060
Reported: 10/20/11 at 01:01 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Tetryl	90	103	55-174	14	50				
1,3,5-Trinitrobenzene	101	109	82-126	8	50				
2,4,6-Trinitrotoluene	105	113	82-130	7	50				
Batch number: 112670064A	Sample number(s): 6417430 UNSPK: P419519								
20a Formaldehyde 8315A	105	96	80-120	9	50				
Batch number: 112740020A	Sample number(s): 6417426-6417437 UNSPK: 6417428								
2,4-D	92	88	17-180	3	35				
Dalapon	37	40	10-125	7	50				
2,4-DB	-134*	-143*	10-201	17	50				
Dicamba	65	63	10-190	4	50				
Dinoseb	10	11	10-46	9	35				
2,4-DP (Dichlorprop)	64	36	33-178	56*	50				
MCPA	15	315*	10-213	182*	50				
MCPP (Mecoprop)	79	67	10-184	17	50				
2,4,5-T	30	29	10-156	4	35				
2,4,5-TP	25	24	24-141	5	35				
Batch number: 112770016A	Sample number(s): 6417427-6417431,6417433-6417437 UNSPK: 6417427								
6a Perchlorate EPA 6850	103	112	80-120	8	20				
Batch number: 112690013A	Sample number(s): 6417426-6417444 UNSPK: 6417426								
PCB-1016	87	94	29-146	8	50				
PCB-1260	77	86	39-149	9	50				
Batch number: 112690020A	Sample number(s): 6417426-6417437 UNSPK: 6417426								
Aldrin	79	76	16-126	4	50				
Alpha BHC	76	71	10-129	8	50				
Beta BHC	97	91	14-147	7	50				
Gamma BHC - Lindane	74	71	10-140	4	50				
p,p-DDD	90	84	16-163	7	50				
p,p-DDE	97	55	18-161	16	50				
p,p-DDT	49	-45*	10-176	24	50				
Delta BHC	125	109	23-140	13	50				
Dieldrin	97	91	19-154	6	50				
Endosulfan I	68	62	16-137	9	50				
Endosulfan II	115	103	28-154	11	50				
Endosulfan Sulfate	80	82	21-160	2	50				
Endrin	75	72	11-149	4	50				
Endrin Aldehyde	83	77	10-148	8	35				
Endrin Ketone	103	86	22-165	18	50				
Heptachlor	82	82	13-126	0	50				
Heptachlor Epoxide	285*	142	13-157	67*	50				
Methoxychlor	100	95	32-147	5	50				
Batch number: 112700014A	Sample number(s): 6417427-6417431,6417433-6417444 UNSPK: 6417427								
Ethanol	79	64	48-130	21*	20				
Isopropanol	79	66	12-149	18	20				
Methanol	80	68	43-138	17	20				
Batch number: 112700016A	Sample number(s): 6417446 UNSPK: P413442								
Ethanol	104	104	62-145	0	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268060
Reported: 10/20/11 at 01:01 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Isopropanol	100	96	73-131	4	20				
Methanol	104	108	52-159	4	20				
Batch number: 112770026A	Sample number(s): 6417427-6417431,6417433-6417444 UNSPK: 6417430								
Diethylene glycol	13*	13*	59-109	1	20				
Ethylene glycol	31*	32*	63-107	2	20				
Propylene glycol	44*	44*	63-107	1	20				
Batch number: 112730005A	Sample number(s): 6417427-6417431,6417433-6417444 UNSPK: 6417427								
EFH (C12-C14)	140*	143*	49-123	2	20				
EFH (C15-C20)	168*	190*	49-123	7	20				
EFH (C21-C30)	140 (2)	346 (2)	49-123	23*	20				
EFH (C30 - C40)	504 (2)	390 (2)	49-123	6	20				
EFH (C8-C11)	94	88	49-123	7	20				
Batch number: 112730009A	Sample number(s): 6417427-6417431,6417433-6417444 UNSPK: 6417429								
m-Terphenyl	94	91	75-125	3	20				
o-Terphenyl	93	90	75-125	3	20				
p-Terphenyl	95	91	75-125	4	20				
Batch number: 112691026001A	Sample number(s): 6417426-6417444 UNSPK: 6417426 BKG: 6417426								
Antimony	39*	34*	75-125	8	20	0.138 J	0.0725 U	200* (1)	20
Arsenic	13*	23*	75-125	5	20	4.02	2.72	38*	20
Beryllium	85	90	75-125	6	20	0.386	0.348	10 (1)	20
Cadmium	97	102	75-125	7	20	0.0875 J	0.0761 J	14 (1)	20
Chromium	46*	56*	75-125	6	20	13.4	9.16	38*	20
Cobalt	95	97	75-125	5	20	3.87	2.86	30*	20
Copper	28*	37*	75-125	7	20	10.7	4.77	77*	20
Lead	56*	89	75-125	9	20	9.53	8.68	9	20
Nickel	-25*	-16*	75-125	6	20	16.0	4.80	108*	20
Silver	102	103	75-125	4	20	0.0138 U	0.0139 U	0 (1)	20
Thallium	91	92	75-125	2	20	0.218	0.191	13 (1)	20
Vanadium	49*	65*	75-125	6	20	22.6	18.1	22*	20
Zinc	40 (2)	102 (2)	75-125	10	20	54.9	52.3	5	20
Batch number: 112691026001B	Sample number(s): 6417426-6417444 UNSPK: 6417426 BKG: 6417426								
Selenium	98	100	75-125	5	20	0.127 J	0.0586 J	74* (1)	20
Batch number: 112691026001C	Sample number(s): 6417426-6417444 UNSPK: 6417426 BKG: 6417426								
Molybdenum	91	95	75-125	7	20	0.812	0.212	117* (1)	20
Batch number: 112691026001D	Sample number(s): 6417426-6417444 UNSPK: 6417426 BKG: 6417426								
Barium	59 (2)	102 (2)	75-125	6	20	62.9	58.6	7	20
Batch number: 112695708005	Sample number(s): 6417426-6417444 UNSPK: 6417426 BKG: 6417426								
Aluminum	1039 (2)	1101 (2)	75-125	1	20	7,600	7,700	1	20
Boron	95	98	84-115	3	20	3.35 J	3.65 J	8 (1)	20
Calcium	136 (2)	185 (2)	75-125	8	20	1,690	1,780	5	20
Iron	2103 (2)	450 (2)	75-125	12	20	12,600	13,400	6	20
Lithium	95	99	82-114	4	20	16.8	16.6	1	20
Magnesium	195 (2)	182 (2)	75-125	1	20	2,450	2,460	0	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268060
Reported: 10/20/11 at 01:01 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Manganese	110	102	75-125	2	20	181	184	1	20
Phosphorus	122	123	75-125	0	20	300	327	9	20
Potassium	111	122	75-125	3	20	2,650	2,630	1	20
Sodium	94	97	75-125	2	20	48.8 J	50.2 J	3 (1)	20
Strontium	96	99	75-115	3	20	7.65	8.31	8	20
Tin	88	90	80-110	2	20	2.32 J	2.30 J	1 (1)	20
Zirconium	93	97	75-125	4	20	0.914 J	1.42 J	44* (1)	20
Batch number: 112695711003	Sample number(s): 6417426-6417444 UNSPK: 6417430 BKG: 6417430								
Mercury	89	94	65-135	2	20	0.0393 J	0.0395 J	0 (1)	20
Batch number: 112775708002	Sample number(s): 6417426-6417444 UNSPK: 6417426 BKG: 6417426								
Titanium	79 (2)	176 (2)	75-125	9	20	971	941	3	20
Batch number: 11272621202A	Sample number(s): 6417426-6417435 UNSPK: 6417426 BKG: 6417426								
11a Anions by 300.0 - Fluoride	79*		80-120			0.80 U	0.80 U	0 (1)	20
11a Anions by 300.0 - Nitrate	125*		80-120			8.2	9.1	10	20
Batch number: 11272621202B	Sample number(s): 6417436-6417444 UNSPK: 6417436 BKG: 6417436								
11a Anions by 300.0 - Fluoride	85		80-120			0.80 U	0.80 U	0 (1)	20
Batch number: 11272621203A	Sample number(s): 6417426-6417435 UNSPK: 6417426 BKG: 6417426								
7a Perchlorate EPA 314.0	107		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11272621203B	Sample number(s): 6417436-6417444 UNSPK: 6417436 BKG: 6417436								
7a Perchlorate EPA 314.0	104		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11277102202A	Sample number(s): 6417427-6417431,6417433-6417437 UNSPK: 6417427 BKG: 6417427								
16a Cyanide by 9012B	108		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11277243201A	Sample number(s): 6417426-6417444 UNSPK: 6417427 BKG: 6417427								
3a Cr VI by EPA 7199	83		75-125			0.35 J	0.20 U	200* (1)	20
Batch number: 11279039401A	Sample number(s): 6417426-6417434 BKG: 6417426								
17a pH by 9045C						6.68	6.67	0	3
Batch number: 11279039401B	Sample number(s): 6417435-6417444 BKG: 6417444								
17a pH by 9045C						8.05	8.04	0	3
Batch number: 11271162402A	Sample number(s): 6417426-6417429,6417431-6417439 BKG: 6417439								
Moisture Content by 160.3						10.6	10.4	2	20
Batch number: 11271162402B	Sample number(s): 6417440-6417444 BKG: 6417443								
Moisture Content by 160.3						9.8	9.9	1	20
Batch number: 11284162402A	Sample number(s): 6417430 BKG: P415790								
Moisture Content by 160.3						9.5	9.4	1	20

Surrogate Quality Control

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268060
Reported: 10/20/11 at 01:01 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E112661AB

	Toluene-d8
6417446	101
Blank	102
LCS	102
MS	102
MSD	101
Limits:	80-120

Analysis Name: 1b Volatile Organics EPA8260B
Batch number: Y112722AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6417446	97	98	99	98
Blank	98	101	99	98
LCS	99	103	100	99
LCSD	100	103	100	99
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11267WAH026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6417446	72	41	80	104	101	91
Blank	61	35	89	92	91	83
LCS	68	42	92	93	93	80
LCSD	69	41	96	104	99	87
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11267WAI026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6417446	177*	94	98
Blank	98	95	97
LCS	98	91	87
LCSD	102	97	93
Limits:	40-130	45-130	45-135

Analysis Name: 21b NDMA by 1625C
Batch number: 11269WAA026

	N-Nitrosodimethylamine-d6
6417446	320*
Blank	135
LCS	150
LCSD	137

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268060
Reported: 10/20/11 at 01:01 PM

Surrogate Quality Control

Limits: 50-150

Analysis Name: 21a NDMA by 1625C
Batch number: 11272SLB026

	N-Nitrosodimethylamine-d6
6417430	168*
Blank	159*
LCS	165*
MS	347*
MSD	351*

Limits: 50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11273SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6417426	96	84	84
6417427	99	79	86
6417428	108	85	86
6417429	97	88	86
6417430	103	85	85
6417431	128	88	93
6417432	105	88	95
6417433	107	84	87
6417434	125	89	85
6417435	103	86	84
6417436	98	83	80
6417437	98	87	79
6417438	96	84	81
6417439	93	83	85
6417440	92	82	83
6417441	95	89	87
6417442	83	77	75
6417443	97	87	85
6417444	93	86	84
Blank	110	103	109
LCS	94	81	88
MS	110	85	87
MSD	108	85	87
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11274SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6417426	93	93	86	82	89	81
6417427	100	101	85	90	90	79
6417428	99	101	87	88	91	77
6417429	95	99	85	87	86	75
6417430	97	97	81	84	84	76
6417431	97	98	83	89	87	79
6417432	83	86	71	79	80	70

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268060
Reported: 10/20/11 at 01:01 PM

Surrogate Quality Control

6417433	94	96	82	90	90	80
6417434	95	97	82	88	87	78
6417435	95	97	80	85	87	76
6417436	98	99	80	85	86	77
6417437	93	95	79	87	88	79
6417438	94	96	80	87	86	76
6417439	91	91	77	83	83	75
6417441	98	100	76	91	89	77
6417442	97	97	76	89	87	81
6417443	94	94	79	84	86	79
6417444	86	86	78	78	82	80
Blank	90	92	83	86	87	82
LCS	94	96	90	92	92	82
MS	97	100	87	91	89	80
MSD	97	99	89	89	88	78
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11277SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6417440	91	96	78	86	90	87
Blank	101	109	90	100	108	97
LCS	89	95	90	92	91	86
MS	97	102	87	93	98	84
MSD	96	102	81	94	92	86
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11270B34A

	Trifluorotoluene-F
6417438	85
6417439	84
6417440	88
6417441	95
6417442	90
6417443	86
6417444	92
Blank	102
LCS	92
LCSD	91
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11277B20A

	Trifluorotoluene-F
6417445	87
6417446	89
Blank	83
LCS	111
LCSD	111

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268060
Reported: 10/20/11 at 01:01 PM

Surrogate Quality Control

Limits: 63-135

Analysis Name: 20b Formaldehyde 8315A
Batch number: 112660030A

	Butyraldehyde
6417446	90
Blank	89
LCS	90
LCSD	93
Limits:	45-145

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 112670054A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6417446	109	108
Blank	96	79
LCS	102	79
LCSD	98	71
Limits:	30-150	45-120

Analysis Name: 15b Energetics by 8330A
Batch number: 112670063A

	2-Nitro-m-xylene
6417446	90
Blank	101
LCS	95
LCSD	98
Limits:	50-134

Analysis Name: 20a Formaldehyde 8315A
Batch number: 112670064A

	Butyraldehyde
6417430	79
Blank	105
LCS	101
MS	99
MSD	98
Limits:	64-126

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112690013A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6417426	102	80
6417427	87	86
6417428	82	84
6417429	93	88
6417430	88	85
6417431	110	107

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268060
Reported: 10/20/11 at 01:01 PM

Surrogate Quality Control

6417432	97	94
6417433	138	201*
6417434	104	96
6417435	119	103
6417436	121	112
6417437	105	98
6417438	90	53
6417439	107	108
6417440	100	99
6417441	90	87
6417442	111	107
6417443	100	72
6417444	112	111
Blank	106	107
LCS	109	113
LCSD	112	120
MS	98	79
MSD	99	89
Limits:	53-139	45-120

Analysis Name: 15a Energetics by 8330A
Batch number: 112690017A

	2-Nitro-m-xylene
6417430	105
Blank	113
LCS	106
LCSD	105
MS	113
MSD	107
Limits:	80-146

Analysis Name: 12a Pesticides by 8081A
Batch number: 112690020A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6417426	89	108
6417427	78	117
6417428	82	124*
6417429	75	103
6417430	85	113
6417431	75	121*
6417432	65	190*
6417433	52	0*
6417434	66	136*
6417435	77	129*
6417436	56	60
6417437	59	121*
Blank	76	118
LCS	76	116
MS	86	118
MSD	85	111
Limits:	50-130	20-120

Analysis Name: 13a Herbicides by EPA 8151

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268060
Reported: 10/20/11 at 01:01 PM

Surrogate Quality Control

Batch number: 112740020A

	2,4-Dichlorophenylacetic acid
6417426	107
6417427	113
6417428	69
6417429	118
6417430	116
6417431	116
6417432	121
6417433	123
6417434	139
6417435	107
6417436	114
6417437	102
Blank	88
LCS	91
MS	118
MSD	107
Limits:	36-156

Analysis Name: 22b Terphenyls by 8015B
Batch number: 112670020A

	n-Triacontane-d62
6417446	73
Blank	73
LCS	74
LCSD	73
Limits:	17-138

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 112670036A

	Chlorobenzene	Orthoterphenyl
6417446	96	98
Blank	92	91
LCS	109	97
LCSD	110	98
Limits:	28-152	52-131

Analysis Name: 18a Alcohols by 8015B
Batch number: 112700014A

	Acetone
6417427	90
6417428	68
6417429	95
6417430	68
6417431	67
6417433	146*
6417434	80
6417435	47

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268060
Reported: 10/20/11 at 01:01 PM

Surrogate Quality Control

6417436	89
6417437	104
6417438	51
6417439	85
6417440	54
6417441	73
6417442	72
6417443	93
6417444	58
Blank	97
LCS	96
MS	81
MSD	64

Limits: 42-138

Analysis Name: 18b Alcohols by 8015B
Batch number: 112700016A

	Acetone
6417446	97
Blank	97
LCS	96
MS	99
MSD	97

Limits: 54-147

Analysis Name: 19b Glycols by 8015B
Batch number: 112710013A

	Tetramethylene glycol
6417446	103
Blank	117
LCS	106
LCSD	107

Limits: 29-157

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112730005A

	Chlorobenzene	Orthoterphenyl
6417427	82	92
6417428	94	104
6417429	84	97
6417430	113	129
6417431	90	95
6417433	87	93
6417434	90	99
6417435	83	98
6417436	99	111
6417437	89	96
6417438	81	90
6417439	75	82
6417440	69	82
6417441	80	89

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268060
Reported: 10/20/11 at 01:01 PM

Surrogate Quality Control

6417442	73	87
6417443	81	90
6417444	75	90
Blank	84	91
LCS	86	94
MS	86	91
MSD	79	91
Limits:	37-125	47-145

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112730009A

	n-Triacontane-d62
6417427	164*
6417428	232*
6417429	78
6417430	74
6417431	1396*
6417433	122
6417434	134
6417435	108
6417436	121
6417437	73
6417438	66
6417439	61
6417440	71
6417441	89
6417442	62
6417443	76
6417444	65
Blank	68
LCS	68
MS	78
MSD	77
Limits:	19-152

Analysis Name: 19a Glycols by 8015B
Batch number: 112770026A

	Tetramethylene glycol
6417427	72
6417428	68
6417429	69
6417430	62
6417431	64
6417433	65
6417434	66
6417435	66
6417436	63
6417437	70
6417438	75
6417439	75
6417440	75
6417441	78
6417442	77
6417443	77

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268060
Reported: 10/20/11 at 01:01 PM

Surrogate Quality Control

6417444	78
Blank	89
LCS	90
MS	64
MSD	65
Limits:	29-137

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1268060 Sample# 6417426-46

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA8) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Perchlorate EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dioxins# EPA 8270	Other Instructions and Notes
SL-011-SA7-SS-0.0-0.5	09.22.11	1035	SOIL	NONE	1-SS Sleeve			X	X																		
SL-011-SA7-SS-0.0-0.5	09.22.11	1035	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		X	X						X	X	X	X		
SL-012-SA7-SS-0.0-0.5	09.22.11	1110	SOIL	NONE	1-SS Sleeve			X	X																		
SL-012-SA7-SS-0.0-0.5	09.22.11	1110	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		
SL-013-SA7-SS-0.0-0.5	09.22.11	1135	SOIL	NONE	1-SS Sleeve			X	X																		
SL-013-SA7-SS-0.0-0.5	09.22.11	1135	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		
SL-020-SA7-SS-0.0-0.5	09.22.11	1000	SOIL	NONE	1-SS Sleeve			X	X																		
SL-020-SA7-SS-0.0-0.5	09.22.11	1000	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		
SL-055-SA7-SS-0.0-0.5	09.22.11	0800	SOIL	NONE	1-SS Sleeve			X	X																		
SL-055-SA7-SS-0.0-0.5	09.22.11	0800	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
SL-038-SA7-SS-0.0-0.5	09.22.11	0855	SOIL	NONE	1-SS Sleeve			X	X																		
SL-038-SA7-SS-0.0-0.5	09.22.11	0855	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		
SL-101-SA7-SS-0.0-0.5	09.22.11	0925	SOIL	NONE	1-SS Sleeve			X	X																		
SL-101-SA7-SS-0.0-0.5	09.22.11	0925	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		X	X											
SL-151-SA7-SS-0.0-0.5	09.22.11	0740	SOIL	NONE	1-SS Sleeve			X	X																		
SL-151-SA7-SS-0.0-0.5	09.22.11	0740	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		
SL-023-SA7-SS-0.0-0.5	09.21.11	1415	SOIL	NONE	1-SS Sleeve			X	X																		
SL-023-SA7-SS-0.0-0.5	09.21.11	1415	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		
SL-141-SA7-SS-0.0-0.5	09.21.11	1445	SOIL	NONE	1-SS Sleeve			X	X																		
SL-141-SA7-SS-0.0-0.5	09.21.11	1445	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		
SL-142-SA7-SS-0.0-0.5	09.21.11	1400	SOIL	NONE	1-SS Sleeve			X	X																		
SL-142-SA7-SS-0.0-0.5	09.21.11	1400	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		
SL-143-SA7-SS-0.0-0.5	09.21.11	1340	SOIL	NONE	1-SS Sleeve			X	X																		
SL-143-SA7-SS-0.0-0.5	09.21.11	1340	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	09/22/2011 / 1600	Yaw M 9/23/11 0920	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8767 8583 3380,3391,3408,3417	

acct#1303 Qp#1268060 Sample# GH17426-46

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 8 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-039-SA7-SB-4.5	09.22.11	1133	SOIL	NONE	2-Encores										X											
SL-039-SA7-SB-4.0-5.0	09.22.11	1132	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X		
SL-072-SA7-SB-4.5	09.22.11	1025	SOIL	NONE	2-Encores										X											
SL-072-SA7-SB-4.0-5.0	09.22.11	1024	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X		
SL-072-SA7-SB-6.0	09.22.11	1031	SOIL	NONE	2-Encores										X											
SL-072-SA7-SB-7.5-8.5	09.22.11	1030	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X		
SL-074-SA7-SB-4.5	09.22.11	1228	SOIL	NONE	2-Encores										X											
SL-074-SA7-SB-4.0-5.0	09.22.11	1225	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X		
SL-075-SA7-SB-4.5	09.22.11	0821	SOIL	NONE	2-Encores										X											
SL-075-SA7-SB-4.0-5.0	09.22.11	0820	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X		
SL-075-SA7-SB-9.5	09.22.11	0827	SOIL	NONE	2-Encores										X											
SL-075-SA7-SB-9.0-10.0	09.22.11	0826	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X		
SL-077-SA7-SB-4.5	09.22.11	0932	SOIL	NONE	2-Encores										X											
SL-077-SA7-SB-4.0-5.0	09.22.11	0931	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X		
TB-092211	09.22.11	0800	WATER	NONE	2-10mL vials										X											

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	09/22/2011 / 1600	LJ 9/23/11 0920	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8767 8583 3380,3391,3406,3417	

acct#13013 Gp# 1268060 Sample# 6417426-46

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subares 8 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dewonsil EPA 8270	Other Instructions and Notes
EB-SA7-SB-092211	09.22.11	1300	SOIL	NONE	10-1 liter ambers			X	X	X								X			X	X		X			X	
EB-SA7-SB-092211	09.22.11	1300	SOIL	NONE	1-500 mL poly		X				X	X	X															
EB-SA7-SB-092211	09.22.11	1300	SOIL	HNO3	1-500 mL poly	X																						
EB-SA7-SB-092211	09.22.11	1300	SOIL	NaOH	1-500 mL poly																		X					
EB-SA7-SB-092211	09.22.11	1300	SOIL	NONE	1-250 mL glass															X								
EB-SA7-SB-092211	09.22.11	1300	SOIL	HCL	11-40 mL vials										X	X	X									X		
EB-SA7-SB-092211	09.22.11	1300	SOIL	NONE	4-40 mL vials														X						X			

Relinquished by: (Signature) — Date/Time: 09/22/2011 / 1600 — Received for Laboratory by: (Signature): Yang Yi Li 9/23/11 0920

Received by: (Signature) — Date/Time — Airbill No.(s): 8767 8583 3380,3391,3406,3417

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 13, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/23/2011
Group Number: 1268061
SDG: DX140
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-011-SA7-SS-0.0-0.5 Soil	6417447
SL-012-SA7-SS-0.0-0.5 Soil	6417448
SL-013-SA7-SS-0.0-0.5 Soil	6417449
SL-020-SA7-SS-0.0-0.5 Soil	6417450
SL-055-SA7-SS-0.0-0.5 Soil	6417451
SL-088-SA7-SS-0.0-0.5 Soil	6417452
SL-101-SA7-SS-0.0-0.5 Soil	6417453
SL-151-SA7-SS-0.0-0.5 Soil	6417454
SL-023-SA7-SS-0.0-0.5 Soil	6417455
SL-141-SA7-SS-0.0-0.5 Soil	6417456

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser
ELECTRONIC COPY TO Data Package Group

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-011-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA7-SS-0.0-0.5

LLI Sample # SW 6417447
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:35

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4012 SDG#: DX140-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-011-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA7-SS-0.0-0.5

LLI Sample # SW 6417447
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:35

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4012 SDG#: DX140-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0655 JBQ	0.0189	0.989	1
11031	12378-PeCDD	40321-76-4	0.118 JBQ	0.0206	4.94	1
11031	123478-HxCDD	39227-28-6	0.143 JB	0.0484	4.94	1
11031	123678-HxCDD	57653-85-7	0.390 JB	0.0483	4.94	1
11031	123789-HxCDD	19408-74-3	0.306 JB	0.0466	4.94	1
11031	1234678-HpCDD	35822-46-9	8.69 B	0.0263	4.94	1
11031	OCDD	3268-87-9	99.3 B	0.0314	9.89	1
11031	2378-TCDF	51207-31-9	0.128 J	0.0398	0.989	1
11031	12378-PeCDF	57117-41-6	0.485 JB	0.0256	4.94	1
11031	23478-PeCDF	57117-31-4	0.294 JB	0.0259	4.94	1
11031	123478-HxCDF	70648-26-9	0.339 JB	0.0408	4.94	1
11031	123678-HxCDF	57117-44-9	0.152 JB	0.0356	4.94	1
11031	123789-HxCDF	72918-21-9	0.0732 JB	0.0399	4.94	1
11031	234678-HxCDF	60851-34-5	0.127 JB	0.0369	4.94	1
11031	1234678-HpCDF	67562-39-4	1.09 JB	0.0201	4.94	1
11031	1234789-HpCDF	55673-89-7	0.119 JBQ	0.0296	4.94	1
11031	OCDF	39001-02-0	1.82 JB	0.0256	9.89	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	59	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-011-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA7-SS-0.0-0.5

LLI Sample # SW 6417447
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:35

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4012 SDG#: DX140-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-011-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA7-SS-0.0-0.5

LLI Sample # SW 6417447
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:35

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4012 SDG#: DX140-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11276002	10/06/2011 11:34	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11276002	10/03/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162402A	09/28/2011 20:26	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-012-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA7-SS-0.0-0.5

LLI Sample # SW 6417448
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 11:10

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4013 SDG#: DX140-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-012-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA7-SS-0.0-0.5

LLI Sample # SW 6417448
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 11:10

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4013 SDG#: DX140-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0510	JB	0.0154	0.997	1
11031	12378-PeCDD	40321-76-4	0.376	JBQ	0.0294	4.99	1
11031	123478-HxCDD	39227-28-6	0.420	JBQ	0.0647	4.99	1
11031	123678-HxCDD	57653-85-7	1.04	JB	0.0665	4.99	1
11031	123789-HxCDD	19408-74-3	0.887	JB	0.0613	4.99	1
11031	1234678-HpCDD	35822-46-9	17.7	B	0.0368	4.99	1
11031	OCDD	3268-87-9	172	B	0.0261	9.97	1
11031	2378-TCDF	51207-31-9	0.254	J	0.0655	0.997	1
11031	12378-PeCDF	57117-41-6	0.291	JB	0.0348	4.99	1
11031	23478-PeCDF	57117-31-4	0.598	JB	0.0346	4.99	1
11031	123478-HxCDF	70648-26-9	0.532	JB	0.0459	4.99	1
11031	123678-HxCDF	57117-44-9	0.212	JB	0.0408	4.99	1
11031	123789-HxCDF	72918-21-9	0.0925	JB	0.0510	4.99	1
11031	234678-HxCDF	60851-34-5	0.255	JB	0.0447	4.99	1
11031	1234678-HpCDF	67562-39-4	2.24	JB	0.0223	4.99	1
11031	1234789-HpCDF	55673-89-7	0.225	JB	0.0362	4.99	1
11031	OCDF	39001-02-0	4.46	JB	0.0236	9.97	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	55	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-012-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA7-SS-0.0-0.5

LLI Sample # SW 6417448
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 11:10

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4013 SDG#: DX140-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-012-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA7-SS-0.0-0.5

LLI Sample # SW 6417448
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 11:10

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4013 SDG#: DX140-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11276002	10/06/2011 12:30	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11276002	10/03/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162402A	09/28/2011 20:26	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-013-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA7-SS-0.0-0.5

LLI Sample # SW 6417449
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 11:35

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4014 SDG#: DX140-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-013-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA7-SS-0.0-0.5

LLI Sample # SW 6417449
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 11:35

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4014 SDG#: DX140-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0459	JBQ	0.0135	1.02	1
11031	12378-PeCDD	40321-76-4	0.327	JB	0.0270	5.09	1
11031	123478-HxCDD	39227-28-6	0.432	JB	0.0646	5.09	1
11031	123678-HxCDD	57653-85-7	1.10	JB	0.0667	5.09	1
11031	123789-HxCDD	19408-74-3	0.910	JB	0.0641	5.09	1
11031	1234678-HpCDD	35822-46-9	24.0	B	0.0364	5.09	1
11031	OCDD	3268-87-9	298	B	0.0246	10.2	1
11031	2378-TCDF	51207-31-9	0.325	J	0.0998	1.02	1
11031	12378-PeCDF	57117-41-6	0.814	JB	0.0505	5.09	1
11031	23478-PeCDF	57117-31-4	0.749	JB	0.0511	5.09	1
11031	123478-HxCDF	70648-26-9	0.746	JB	0.0458	5.09	1
11031	123678-HxCDF	57117-44-9	0.322	JB	0.0411	5.09	1
11031	123789-HxCDF	72918-21-9	0.119	JB	0.0474	5.09	1
11031	234678-HxCDF	60851-34-5	0.299	JB	0.0464	5.09	1
11031	1234678-HpCDF	67562-39-4	2.80	JB	0.0178	5.09	1
11031	1234789-HpCDF	55673-89-7	0.235	JBQ	0.0263	5.09	1
11031	OCDF	39001-02-0	5.31	JB	0.0227	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	62	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-013-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA7-SS-0.0-0.5

LLI Sample # SW 6417449
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 11:35

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4014 SDG#: DX140-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-013-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA7-SS-0.0-0.5

LLI Sample # SW 6417449
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 11:35

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4014 SDG#: DX140-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11276002	10/07/2011 13:26	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11276002	10/03/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162402A	09/28/2011 20:26	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-020-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA7-SS-0.0-0.5

LLI Sample # SW 6417450
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:00

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4015 SDG#: DX140-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-020-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA7-SS-0.0-0.5

LLI Sample # SW 6417450
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:00

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4015 SDG#: DX140-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0190 JBQ	0.0154	1.01	1
11031	12378-PeCDD	40321-76-4	0.0969 JBQ	0.0179	5.05	1
11031	123478-HxCDD	39227-28-6	0.134 JB	0.0483	5.05	1
11031	123678-HxCDD	57653-85-7	0.409 JB	0.0505	5.05	1
11031	123789-HxCDD	19408-74-3	0.321 JB	0.0465	5.05	1
11031	1234678-HpCDD	35822-46-9	7.70 B	0.0273	5.05	1
11031	OCDD	3268-87-9	91.0 B	0.0280	10.1	1
11031	2378-TCDF	51207-31-9	0.0593 J	0.0408	1.01	1
11031	12378-PeCDF	57117-41-6	1.14 JB	0.0289	5.05	1
11031	23478-PeCDF	57117-31-4	0.232 JB	0.0308	5.05	1
11031	123478-HxCDF	70648-26-9	0.440 JB	0.0367	5.05	1
11031	123678-HxCDF	57117-44-9	0.135 JB	0.0319	5.05	1
11031	123789-HxCDF	72918-21-9	0.0851 JB	0.0400	5.05	1
11031	234678-HxCDF	60851-34-5	0.120 JB	0.0338	5.05	1
11031	1234678-HpCDF	67562-39-4	1.23 JB	0.0192	5.05	1
11031	1234789-HpCDF	55673-89-7	0.133 JBQ	0.0304	5.05	1
11031	OCDF	39001-02-0	2.06 JB	0.0264	10.1	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	90	25 - 164
13C12-12378-PeCDD	91	25 - 181
13C12-123478-HxCDD	95	32 - 141
13C12-123678-HxCDD	92	28 - 130
13C12-123789-HxCDD	95	28 - 130
13C12-1234678-HpCDD	94	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	97	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	93	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	102	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	71	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-020-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA7-SS-0.0-0.5

LLI Sample # SW 6417450
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:00

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4015 SDG#: DX140-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-020-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA7-SS-0.0-0.5

LLI Sample # SW 6417450
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:00

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4015 SDG#: DX140-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11276002	10/07/2011 00:57	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11276002	10/03/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162402A	09/28/2011 20:26	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-055-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA7-SS-0.0-0.5

LLI Sample # SW 6417451
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:00

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4016 SDG#: DX140-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-055-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-055-SA7-SS-0.0-0.5

LLI Sample # SW 6417451
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:00

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4016 SDG#: DX140-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.101	JB	0.0234	1.01	1
11031	12378-PeCDD	40321-76-4	0.583	JB	0.0550	5.07	1
11031	123478-HxCDD	39227-28-6	0.939	JB	0.0996	5.07	1
11031	123678-HxCDD	57653-85-7	2.95	JB	0.102	5.07	1
11031	123789-HxCDD	19408-74-3	1.96	JB	0.0975	5.07	1
11031	1234678-HpCDD	35822-46-9	77.4	B	0.0609	5.07	1
11031	OCDD	3268-87-9	957	B	0.0607	10.1	1
11031	2378-TCDF	51207-31-9	0.572	J	0.132	1.01	1
11031	12378-PeCDF	57117-41-6	2.23	JB	0.0853	5.07	1
11031	23478-PeCDF	57117-31-4	1.19	JB	0.0846	5.07	1
11031	123478-HxCDF	70648-26-9	2.24	JB	0.0719	5.07	1
11031	123678-HxCDF	57117-44-9	0.636	JB	0.0700	5.07	1
11031	123789-HxCDF	72918-21-9	0.196	JB	0.0813	5.07	1
11031	234678-HxCDF	60851-34-5	0.494	JB	0.0700	5.07	1
11031	1234678-HpCDF	67562-39-4	5.82	B	0.0382	5.07	1
11031	1234789-HpCDF	55673-89-7	0.394	JB	0.0484	5.07	1
11031	OCDF	39001-02-0	9.83	JB	0.0319	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	73	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-055-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA7-SS-0.0-0.5

LLI Sample # SW 6417451
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:00

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4016 SDG#: DX140-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-055-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-055-SA7-SS-0.0-0.5

LLI Sample # SW 6417451
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:00

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4016 SDG#: DX140-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11276002	10/07/2011 01:54	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11276002	10/03/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11284162402A	10/11/2011 18:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-088-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-088-SA7-SS-0.0-0.5

LLI Sample # SW 6417452
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:55

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4017 SDG#: DX140-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-088-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-088-SA7-SS-0.0-0.5

LLI Sample # SW 6417452
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:55

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4017 SDG#: DX140-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0715 JBQ	0.0169	1.01	1
11031	12378-PeCDD	40321-76-4	0.433 JBQ	0.0286	5.03	1
11031	123478-HxCDD	39227-28-6	0.451 JB	0.0681	5.03	1
11031	123678-HxCDD	57653-85-7	1.18 JB	0.0713	5.03	1
11031	123789-HxCDD	19408-74-3	0.935 JB	0.0677	5.03	1
11031	1234678-HpCDD	35822-46-9	23.1 B	0.0457	5.03	1
11031	OCDD	3268-87-9	190 B	0.0311	10.1	1
11031	2378-TCDF	51207-31-9	0.284 J	0.0591	1.01	1
11031	12378-PeCDF	57117-41-6	0.332 JB	0.0288	5.03	1
11031	23478-PeCDF	57117-31-4	0.517 JB	0.0295	5.03	1
11031	123478-HxCDF	70648-26-9	0.398 JB	0.0425	5.03	1
11031	123678-HxCDF	57117-44-9	0.283 JB	0.0370	5.03	1
11031	123789-HxCDF	72918-21-9	0.102 JB	0.0460	5.03	1
11031	234678-HxCDF	60851-34-5	0.321 JB	0.0385	5.03	1
11031	1234678-HpCDF	67562-39-4	3.04 JB	0.0279	5.03	1
11031	1234789-HpCDF	55673-89-7	0.253 JB	0.0403	5.03	1
11031	OCDF	39001-02-0	6.89 JB	0.0286	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	65	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-088-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-088-SA7-SS-0.0-0.5

LLI Sample # SW 6417452
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:55

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4017 SDG#: DX140-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-088-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-088-SA7-SS-0.0-0.5

LLI Sample # SW 6417452
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:55

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4017 SDG#: DX140-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11276002	10/07/2011 02:50	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11276002	10/03/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162402A	09/28/2011 20:26	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-101-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-101-SA7-SS-0.0-0.5

LLI Sample # SW 6417453
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 09:25

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4018 SDG#: DX140-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-101-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-101-SA7-SS-0.0-0.5

LLI Sample # SW 6417453
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 09:25

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4018 SDG#: DX140-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.111	JB	0.0223	0.990	1
11031	12378-PeCDD	40321-76-4	0.832	JB	0.0638	4.95	1
11031	123478-HxCDD	39227-28-6	1.30	JB	0.100	4.95	1
11031	123678-HxCDD	57653-85-7	4.93	JB	0.105	4.95	1
11031	123789-HxCDD	19408-74-3	2.69	JB	0.0980	4.95	1
11031	1234678-HpCDD	35822-46-9	117	B	0.106	4.95	1
11031	OCDD	3268-87-9	2,170	B	0.104	9.90	1
11031	2378-TCDF	51207-31-9	1.16	C	0.177	0.990	1
11031	12378-PeCDF	57117-41-6	1.84	JB	0.0927	4.95	1
11031	23478-PeCDF	57117-31-4	2.35	JB	0.0932	4.95	1
11031	123478-HxCDF	70648-26-9	3.94	JB	0.0921	4.95	1
11031	123678-HxCDF	57117-44-9	1.82	JB	0.0851	4.95	1
11031	123789-HxCDF	72918-21-9	1.33	JB	0.0993	4.95	1
11031	234678-HxCDF	60851-34-5	2.16	JB	0.0873	4.95	1
11031	1234678-HpCDF	67562-39-4	34.3	B	0.0557	4.95	1
11031	1234789-HpCDF	55673-89-7	3.17	JB	0.0703	4.95	1
11031	OCDF	39001-02-0	62.5	B	0.0526	9.90	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	70	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-101-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-101-SA7-SS-0.0-0.5

LLI Sample # SW 6417453
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 09:25

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4018 SDG#: DX140-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-101-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-101-SA7-SS-0.0-0.5

LLI Sample # SW 6417453
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 09:25

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4018 SDG#: DX140-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11276002	10/07/2011 03:47	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11276002	10/03/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162402A	09/28/2011 20:26	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-151-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-151-SA7-SS-0.0-0.5

LLI Sample # SW 6417454
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 07:40

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4019 SDG#: DX140-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-151-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-151-SA7-SS-0.0-0.5

LLI Sample # SW 6417454
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 07:40

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4019 SDG#: DX140-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	1.01	JB	0.0257	1.02	1
11031	12378-PeCDD	40321-76-4	1.05	JB	0.0875	5.08	1
11031	123478-HxCDD	39227-28-6	1.91	JB	0.115	5.08	1
11031	123678-HxCDD	57653-85-7	7.83	B	0.120	5.08	1
11031	123789-HxCDD	19408-74-3	3.72	JB	0.110	5.08	1
11031	1234678-HpCDD	35822-46-9	150	B	0.112	5.08	1
11031	OCDD	3268-87-9	1,590	B	0.129	10.2	1
11031	2378-TCDF	51207-31-9	0.449	J	0.376	1.02	1
11031	12378-PeCDF	57117-41-6	6.88	B	0.163	5.08	1
11031	23478-PeCDF	57117-31-4	4.75	JB	0.157	5.08	1
11031	123478-HxCDF	70648-26-9	6.35	B	0.127	5.08	1
11031	123678-HxCDF	57117-44-9	2.44	JB	0.102	5.08	1
11031	123789-HxCDF	72918-21-9	0.583	JB	0.104	5.08	1
11031	234678-HxCDF	60851-34-5	2.76	JB	0.0945	5.08	1
11031	1234678-HpCDF	67562-39-4	35.7	B	0.0775	5.08	1
11031	1234789-HpCDF	55673-89-7	1.74	JB	0.0904	5.08	1
11031	OCDF	39001-02-0	60.8	B	0.0469	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	65	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-151-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-151-SA7-SS-0.0-0.5

LLI Sample # SW 6417454
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 07:40

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4019 SDG#: DX140-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-151-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-151-SA7-SS-0.0-0.5

LLI Sample # SW 6417454
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 07:40

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4019 SDG#: DX140-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11276002	10/07/2011 04:44	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11276002	10/03/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162402A	09/28/2011 20:26	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-023-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA7-SS-0.0-0.5

LLI Sample # SW 6417455
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:15

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4020 SDG#: DX140-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-023-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA7-SS-0.0-0.5

LLI Sample # SW 6417455
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:15

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4020 SDG#: DX140-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0209	JBQ	0.0154	1.01	1
11031	12378-PeCDD	40321-76-4	0.219	JB	0.0265	5.05	1
11031	123478-HxCDD	39227-28-6	0.418	JB	0.0732	5.05	1
11031	123678-HxCDD	57653-85-7	1.66	JB	0.0759	5.05	1
11031	123789-HxCDD	19408-74-3	0.903	JB	0.0736	5.05	1
11031	1234678-HpCDD	35822-46-9	46.7	B	0.0666	5.05	1
11031	OCDD	3268-87-9	416	B	0.0365	10.1	1
11031	2378-TCDF	51207-31-9	0.279	J	0.0992	1.01	1
11031	12378-PeCDF	57117-41-6	1.39	JB	0.0603	5.05	1
11031	23478-PeCDF	57117-31-4	0.827	JB	0.0558	5.05	1
11031	123478-HxCDF	70648-26-9	0.916	JB	0.0590	5.05	1
11031	123678-HxCDF	57117-44-9	0.408	JB	0.0553	5.05	1
11031	123789-HxCDF	72918-21-9	0.188	JB	0.0626	5.05	1
11031	234678-HxCDF	60851-34-5	0.469	JB	0.0576	5.05	1
11031	1234678-HpCDF	67562-39-4	9.07	B	0.0314	5.05	1
11031	1234789-HpCDF	55673-89-7	0.586	JB	0.0420	5.05	1
11031	OCDF	39001-02-0	32.0	B	0.0236	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	71	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-023-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA7-SS-0.0-0.5

LLI Sample # SW 6417455
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:15

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4020 SDG#: DX140-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-023-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA7-SS-0.0-0.5

LLI Sample # SW 6417455
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:15

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4020 SDG#: DX140-20

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11276002	10/07/2011 08:43	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11276002	10/03/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162402A	09/28/2011 20:26	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-141-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-141-SA7-SS-0.0-0.5

LLI Sample # SW 6417456
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:45

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4021 SDG#: DX140-21*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.92	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-141-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-141-SA7-SS-0.0-0.5

LLI Sample # SW 6417456
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:45

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4021 SDG#: DX140-21*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0396	JB	0.0146	0.977	1
11031	12378-PeCDD	40321-76-4	0.154	JBQ	0.0210	4.89	1
11031	123478-HxCDD	39227-28-6	0.253	JB	0.0683	4.89	1
11031	123678-HxCDD	57653-85-7	0.829	JB	0.0706	4.89	1
11031	123789-HxCDD	19408-74-3	0.460	JB	0.0631	4.89	1
11031	1234678-HpCDD	35822-46-9	21.4	B	0.0420	4.89	1
11031	OCDD	3268-87-9	227	B	0.0325	9.77	1
11031	2378-TCDF	51207-31-9	0.241	J	0.0812	0.977	1
11031	12378-PeCDF	57117-41-6	1.52	JB	0.0444	4.89	1
11031	23478-PeCDF	57117-31-4	0.640	JB	0.0477	4.89	1
11031	123478-HxCDF	70648-26-9	0.724	JB	0.0539	4.89	1
11031	123678-HxCDF	57117-44-9	0.324	JB	0.0469	4.89	1
11031	123789-HxCDF	72918-21-9	0.144	JB	0.0594	4.89	1
11031	234678-HxCDF	60851-34-5	0.280	JB	0.0491	4.89	1
11031	1234678-HpCDF	67562-39-4	3.85	JB	0.0300	4.89	1
11031	1234789-HpCDF	55673-89-7	0.278	JB	0.0485	4.89	1
11031	OCDF	39001-02-0	10.3	B	0.0281	9.77	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	60	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-141-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-141-SA7-SS-0.0-0.5

LLI Sample # SW 6417456
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:45

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4021 SDG#: DX140-21*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-141-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-141-SA7-SS-0.0-0.5

LLI Sample # SW 6417456
LLI Group # 1268061
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:45

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 19:58

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4021 SDG#: DX140-21*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11276002	10/07/2011 09:40	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11276002	10/03/2011 13:15	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162402A	09/28/2011 20:26	Scott W Freisher	1

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268061
Reported: 10/13/11 at 07:58 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11271162402A	Sample number(s): 6417447-6417450,6417452-6417456								
Moisture Content by 160.3					100		80-120		
Batch number: 11284162402A	Sample number(s): 6417451								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11276002	Sample number(s): 6417447-6417456								
2378-TCDD	0.0397 J	0.0167	1.00	ng/kg	104		67-158		
12378-PeCDD	0.0530 J	0.0190	5.00	ng/kg	102		70-142		
123478-HxCDD	0.0215 J	0.0122	5.00	ng/kg	94		70-164		
123678-HxCDD	0.0373 J	0.0131	5.00	ng/kg	96		76-134		
123789-HxCDD	0.0302 J	0.0119	5.00	ng/kg	97		64-162		
1234678-HpCDD	0.260 J	0.0181	5.00	ng/kg	95		70-140		
OCDD	0.430 J	0.0213	10.0	ng/kg	95		78-144		
2378-TCDF	0.0167 U	0.0167	1.00	ng/kg	93		75-158		
12378-PeCDF	0.0314 J	0.00980	5.00	ng/kg	93		80-134		
23478-PeCDF	0.0668 J	0.00970	5.00	ng/kg	91		68-160		
123478-HxCDF	0.0558 J	0.00990	5.00	ng/kg	94		72-134		
123678-HxCDF	0.0302 J	0.00900	5.00	ng/kg	93		84-130		
123789-HxCDF	0.0514 J	0.0107	5.00	ng/kg	90		78-130		
234678-HxCDF	0.0364 J	0.00900	5.00	ng/kg	93		70-156		
1234678-HpCDF	0.115 J	0.00700	5.00	ng/kg	92		82-122		
1234789-HpCDF	0.0423 J	0.0110	5.00	ng/kg	93		78-138		
OCDF	0.129 J	0.0198	10.0	ng/kg	91		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11271162402A	Sample number(s): 6417447-6417450,6417452-6417456					BKG: P417439			
Moisture Content by 160.3						10.6	10.4	2	20
Batch number: 11284162402A	Sample number(s): 6417451					BKG: P415790			
Moisture Content by 160.3						9.5	9.4	1	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268061
Reported: 10/13/11 at 07:58 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11276002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6417447	76	72	63	70	65	69
6417448	73	68	64	72	63	63
6417449	76	71	70	78	71	72
6417450	90	84	80	93	83	81
6417451	80	76	77	82	78	74
6417452	76	76	73	81	75	70
6417453	75	75	70	77	70	72
6417454	78	77	54	65	71	69
6417455	79	78	71	74	72	72
6417456	76	73	69	79	74	68
Blank	72	69	65	71	68	65
OPR	65	70	63	66	65	69
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6417447	80	61	59	81	76	79
6417448	82	58	55	78	75	75
6417449	89	63	62	78	82	82
6417450	102	74	71	91	95	92
6417451	81	73	73	79	85	83
6417452	87	66	65	84	81	84
6417453	80	70	70	80	79	77
6417454	70	65	65	81	81	77
6417455	85	70	71	82	80	80
6417456	91	65	60	79	83	83
Blank	83	63	60	77	81	78
OPR	79	66	67	74	78	76
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6417447	78	80	76	72	78
6417448	76	79	78	70	75
6417449	83	85	81	71	77
6417450	95	94	90	83	97
6417451	83	84	83	79	79
6417452	84	83	84	75	85
6417453	79	81	83	73	81
6417454	79	81	77	75	82
6417455	82	88	85	75	81
6417456	87	88	77	73	80
Blank	80	83	79	68	72
OPR	78	84	82	66	72
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268061
Reported: 10/13/11 at 07:58 PM

Surrogate Quality Control

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp# 1268061 Sample#6417447-56

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 8 (SA8) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowcnol EPA 8270	Other Instructions and Notes
SL-011-SA7-SS-0.0-0.5	09.22.11	1035	SOIL	NONE	1-SS Sleeve			X	X						X	X											
SL-011-SA7-SS-0.0-0.5	09.22.11	1035	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X														
SL-012-SA7-SS-0.0-0.5	09.22.11	1110	SOIL	NONE	1-SS Sleeve			X	X													X	X	X	X		
SL-012-SA7-SS-0.0-0.5	09.22.11	1110	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X										
SL-013-SA7-SS-0.0-0.5	09.22.11	1135	SOIL	NONE	1-SS Sleeve			X	X													X	X	X	X		
SL-013-SA7-SS-0.0-0.5	09.22.11	1135	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X										
SL-020-SA7-SS-0.0-0.5	09.22.11	1000	SOIL	NONE	1-SS Sleeve			X	X													X	X	X	X		
SL-020-SA7-SS-0.0-0.5	09.22.11	1000	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X										
SL-055-SA7-SS-0.0-0.5	09.22.11	0800	SOIL	NONE	1-SS Sleeve			X	X													X	X	X	X		
SL-055-SA7-SS-0.0-0.5	09.22.11	0800	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
SL-096-SA7-SS-0.0-0.5	09.22.11	0855	SOIL	NONE	1-SS Sleeve			X	X													X	X	X	X		
SL-096-SA7-SS-0.0-0.5	09.22.11	0855	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X										
SL-101-SA7-SS-0.0-0.5	09.22.11	0925	SOIL	NONE	1-SS Sleeve			X	X																		
SL-101-SA7-SS-0.0-0.5	09.22.11	0925	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		X	X											
SL-151-SA7-SS-0.0-0.5	09.22.11	0740	SOIL	NONE	1-SS Sleeve			X	X													X	X	X	X		
SL-151-SA7-SS-0.0-0.5	09.22.11	0740	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X										
SL-023-SA7-SS-0.0-0.5	09.21.11	1415	SOIL	NONE	1-SS Sleeve			X	X													X	X	X	X		
SL-023-SA7-SS-0.0-0.5	09.21.11	1415	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X										
SL-141-SA7-SS-0.0-0.5	09.21.11	1445	SOIL	NONE	1-SS Sleeve			X	X													X	X	X	X		
SL-141-SA7-SS-0.0-0.5	09.21.11	1445	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X										
SL-142-SA7-SS-0.0-0.5	09.21.11	1400	SOIL	NONE	1-SS Sleeve			X	X													X	X	X	X		
SL-142-SA7-SS-0.0-0.5	09.21.11	1400	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X										
SL-143-SA7-SS-0.0-0.5	09.21.11	1340	SOIL	NONE	1-SS Sleeve			X	X													X	X	X	X		
SL-143-SA7-SS-0.0-0.5	09.21.11	1340	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X										

Relinquished by: (Signature) — Date/Time: 09/22/2011 / 1600

Received for Laboratory by: (Signature) — Mary M. Li 9/23/11 0920

Received by: (Signature) — Date/Time

Airbill No.(s): 8767 8583 3380,3391,3406,3417

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 13, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/23/2011
Group Number: 1268062
SDG: DX141
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-142-SA7-SS-0.0-0.5 Soil	6417457
SL-143-SA7-SS-0.0-0.5 Soil	6417458
SL-039-SA7-SB-4.0-5.0 Soil	6417459
SL-072-SA7-SB-4.0-5.0 Soil	6417460
SL-072-SA7-SB-7.5-8.5 Soil	6417461
SL-074-SA7-SB-4.0-5.0 Soil	6417462
SL-075-SA7-SB-4.0-5.0 Soil	6417463
SL-075-SA7-SB-9.0-10.0 Soil	6417464
SL-077-SA7-SB-4.0-5.0 Soil	6417465
EB-SA7-SB-092211 Water	6417466

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

ELECTRONIC COPY TO Data Package Group

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-142-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-142-SA7-SS-0.0-0.5

LLI Sample # SW 6417457
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:00

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4101 SDG#: DX141-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-142-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-142-SA7-SS-0.0-0.5

LLI Sample # SW 6417457
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:00

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4101 SDG#: DX141-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0545	U	0.0545	1.01	1
11031	12378-PeCDD	40321-76-4	0.228	JB	0.0559	5.05	1
11031	123478-HxCDD	39227-28-6	0.294	JQ	0.0740	5.05	1
11031	123678-HxCDD	57653-85-7	0.992	J	0.0748	5.05	1
11031	123789-HxCDD	19408-74-3	0.750	JB	0.0635	5.05	1
11031	1234678-HpCDD	35822-46-9	23.7	B	0.0983	5.05	1
11031	OCDD	3268-87-9	221	B	0.106	10.1	1
11031	2378-TCDF	51207-31-9	0.449	J	0.0978	1.01	1
11031	12378-PeCDF	57117-41-6	0.755	JB	0.0597	5.05	1
11031	23478-PeCDF	57117-31-4	0.838	JB	0.0558	5.05	1
11031	123478-HxCDF	70648-26-9	0.905	J	0.0688	5.05	1
11031	123678-HxCDF	57117-44-9	0.291	J	0.0581	5.05	1
11031	123789-HxCDF	72918-21-9	0.124	J	0.0616	5.05	1
11031	234678-HxCDF	60851-34-5	0.352	JQ	0.0563	5.05	1
11031	1234678-HpCDF	67562-39-4	3.67	JB	0.0411	5.05	1
11031	1234789-HpCDF	55673-89-7	0.191	J	0.0642	5.05	1
11031	OCDF	39001-02-0	10.2	B	0.0834	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	93	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	59	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-142-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-142-SA7-SS-0.0-0.5

LLI Sample # SW 6417457
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:00

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4101 SDG#: DX141-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-142-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-142-SA7-SS-0.0-0.5

LLI Sample # SW 6417457
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 14:00

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4101 SDG#: DX141-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11277002	10/06/2011 03:14	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11277002	10/04/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162402A	09/28/2011 20:26	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-143-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA7-SS-0.0-0.5

LLI Sample # SW 6417458
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 13:40

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4102 SDG#: DX141-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-143-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA7-SS-0.0-0.5

LLI Sample # SW 6417458
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 13:40

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4102 SDG#: DX141-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0589	U	0.0589	0.986	1
11031	12378-PeCDD	40321-76-4	0.111	JB	0.0528	4.93	1
11031	123478-HxCDD	39227-28-6	0.229	JQ	0.0578	4.93	1
11031	123678-HxCDD	57653-85-7	0.632	J	0.0555	4.93	1
11031	123789-HxCDD	19408-74-3	0.492	JB	0.0560	4.93	1
11031	1234678-HpCDD	35822-46-9	15.6	B	0.0774	4.93	1
11031	OCDD	3268-87-9	146	B	0.101	9.86	1
11031	2378-TCDF	51207-31-9	0.351	J	0.0841	0.986	1
11031	12378-PeCDF	57117-41-6	1.07	JB	0.0440	4.93	1
11031	23478-PeCDF	57117-31-4	0.303	JB	0.0485	4.93	1
11031	123478-HxCDF	70648-26-9	0.705	J	0.0492	4.93	1
11031	123678-HxCDF	57117-44-9	0.294	J	0.0429	4.93	1
11031	123789-HxCDF	72918-21-9	0.0775	JQ	0.0556	4.93	1
11031	234678-HxCDF	60851-34-5	0.240	J	0.0478	4.93	1
11031	1234678-HpCDF	67562-39-4	1.94	JB	0.0291	4.93	1
11031	1234789-HpCDF	55673-89-7	0.218	JQ	0.0563	4.93	1
11031	OCDF	39001-02-0	4.61	JB	0.0836	9.86	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	53	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-143-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA7-SS-0.0-0.5

LLI Sample # SW 6417458
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 13:40

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4102 SDG#: DX141-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-143-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA7-SS-0.0-0.5

LLI Sample # SW 6417458
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/21/2011 13:40

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4102 SDG#: DX141-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11277002	10/06/2011 04:10	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11277002	10/04/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162402A	09/28/2011 20:26	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-039-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA7-SB-4.0-5.0

LLI Sample # SW 6417459
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 11:32

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4103 SDG#: DX141-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-039-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA7-SB-4.0-5.0

LLI Sample # SW 6417459
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 11:32

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4103 SDG#: DX141-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0742	U	0.0742	1.10	1
11031	12378-PeCDD	40321-76-4	0.0528	U	0.0528	5.50	1
11031	123478-HxCDD	39227-28-6	0.0415	U	0.0415	5.50	1
11031	123678-HxCDD	57653-85-7	0.0594	JQ	0.0389	5.50	1
11031	123789-HxCDD	19408-74-3	0.0459	JBQ	0.0356	5.50	1
11031	1234678-HpCDD	35822-46-9	0.263	JBQ	0.0651	5.50	1
11031	OCDD	3268-87-9	0.789	JB	0.0632	11.0	1
11031	2378-TCDF	51207-31-9	0.0580	U	0.0580	1.10	1
11031	12378-PeCDF	57117-41-6	0.0376	JBQ	0.0287	5.50	1
11031	23478-PeCDF	57117-31-4	0.0290	U	0.0290	5.50	1
11031	123478-HxCDF	70648-26-9	0.0278	U	0.0278	5.50	1
11031	123678-HxCDF	57117-44-9	0.0364	JQ	0.0228	5.50	1
11031	123789-HxCDF	72918-21-9	0.0300	U	0.0300	5.50	1
11031	234678-HxCDF	60851-34-5	0.0471	J	0.0248	5.50	1
11031	1234678-HpCDF	67562-39-4	0.157	JBQ	0.0194	5.50	1
11031	1234789-HpCDF	55673-89-7	0.0546	JQ	0.0398	5.50	1
11031	OCDF	39001-02-0	0.187	JBQ	0.114	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	61	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	58	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	46	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-039-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA7-SB-4.0-5.0

LLI Sample # SW 6417459
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 11:32

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4103 SDG#: DX141-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-039-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA7-SB-4.0-5.0

LLI Sample # SW 6417459
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 11:32

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4103 SDG#: DX141-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11277002	10/06/2011 05:07	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11277002	10/04/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162402A	09/28/2011 20:26	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-072-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA7-SB-4.0-5.0

LLI Sample # SW 6417460
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:24

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4104 SDG#: DX141-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-072-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA7-SB-4.0-5.0

LLI Sample # SW 6417460
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:24

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4104 SDG#: DX141-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0748	U	0.0748	1.10	1
11031	12378-PeCDD	40321-76-4	0.0645	U	0.0645	5.48	1
11031	123478-HxCDD	39227-28-6	0.0450	U	0.0450	5.48	1
11031	123678-HxCDD	57653-85-7	0.0509	JQ	0.0451	5.48	1
11031	123789-HxCDD	19408-74-3	0.122	JB	0.0431	5.48	1
11031	1234678-HpCDD	35822-46-9	0.216	JB	0.0677	5.48	1
11031	OCDD	3268-87-9	0.756	JB	0.0630	11.0	1
11031	2378-TCDF	51207-31-9	0.0652	U	0.0652	1.10	1
11031	12378-PeCDF	57117-41-6	0.0385	JBQ	0.0313	5.48	1
11031	23478-PeCDF	57117-31-4	0.0871	JBQ	0.0328	5.48	1
11031	123478-HxCDF	70648-26-9	0.0820	JQ	0.0328	5.48	1
11031	123678-HxCDF	57117-44-9	0.0804	JQ	0.0257	5.48	1
11031	123789-HxCDF	72918-21-9	0.0355	U	0.0355	5.48	1
11031	234678-HxCDF	60851-34-5	0.0411	JQ	0.0238	5.48	1
11031	1234678-HpCDF	67562-39-4	0.133	JB	0.0264	5.48	1
11031	1234789-HpCDF	55673-89-7	0.0611	J	0.0501	5.48	1
11031	OCDF	39001-02-0	0.130	U	0.130	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	61	25 - 164
13C12-12378-PeCDD	60	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	57	24 - 169
13C12-12378-PeCDF	62	24 - 185
13C12-23478-PeCDF	54	21 - 178
13C12-123478-HxCDF	45	26 - 152
13C12-123678-HxCDF	57	26 - 123
13C12-234678-HxCDF	58	28 - 136
13C12-123789-HxCDF	49	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	47	26 - 138
13C12-OCDF	39	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-072-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA7-SB-4.0-5.0

LLI Sample # SW 6417460
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:24

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4104 SDG#: DX141-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-072-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA7-SB-4.0-5.0

LLI Sample # SW 6417460
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:24

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4104 SDG#: DX141-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11277002	10/06/2011 06:03	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11277002	10/04/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162402A	09/28/2011 20:26	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-072-SA7-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA7-SB-7.5-8.5

LLI Sample # SW 6417461
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:30

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4105 SDG#: DX141-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-072-SA7-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA7-SB-7.5-8.5

LLI Sample # SW 6417461
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:30

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4105 SDG#: DX141-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0713	U	0.0713	1.11	1
11031	12378-PeCDD	40321-76-4	0.0463	U	0.0463	5.54	1
11031	123478-HxCDD	39227-28-6	0.0446	U	0.0446	5.54	1
11031	123678-HxCDD	57653-85-7	0.307	JQ	0.0453	5.54	1
11031	123789-HxCDD	19408-74-3	0.291	JB	0.0433	5.54	1
11031	1234678-HpCDD	35822-46-9	0.608	JBQ	0.0629	5.54	1
11031	OCDD	3268-87-9	2.82	JB	0.0504	11.1	1
11031	2378-TCDF	51207-31-9	0.0562	JQ	0.0512	1.11	1
11031	12378-PeCDF	57117-41-6	0.0342	JBQ	0.0271	5.54	1
11031	23478-PeCDF	57117-31-4	0.0288	U	0.0288	5.54	1
11031	123478-HxCDF	70648-26-9	0.0311	J	0.0272	5.54	1
11031	123678-HxCDF	57117-44-9	0.147	JQ	0.0221	5.54	1
11031	123789-HxCDF	72918-21-9	0.0327	U	0.0327	5.54	1
11031	234678-HxCDF	60851-34-5	0.0237	U	0.0237	5.54	1
11031	1234678-HpCDF	67562-39-4	0.141	JBQ	0.0177	5.54	1
11031	1234789-HpCDF	55673-89-7	0.0409	U	0.0409	5.54	1
11031	OCDF	39001-02-0	0.338	JBQ	0.104	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	57	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	48	26 - 138
13C12-OCDF	43	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-072-SA7-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA7-SB-7.5-8.5

LLI Sample # SW 6417461
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:30

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4105 SDG#: DX141-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-072-SA7-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-072-SA7-SB-7.5-8.5

LLI Sample # SW 6417461
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 10:30

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4105 SDG#: DX141-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11277002	10/06/2011 07:00	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11277002	10/04/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162402B	09/28/2011 20:26	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-074-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-074-SA7-SB-4.0-5.0

LLI Sample # SW 6417462
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 12:25

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4106 SDG#: DX141-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-074-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-074-SA7-SB-4.0-5.0

LLI Sample # SW 6417462
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 12:25

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4106 SDG#: DX141-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0559	U	0.0559	1.04	1
11031	12378-PeCDD	40321-76-4	0.0384	U	0.0384	5.20	1
11031	123478-HxCDD	39227-28-6	0.0324	U	0.0324	5.20	1
11031	123678-HxCDD	57653-85-7	0.154	JQ	0.0327	5.20	1
11031	123789-HxCDD	19408-74-3	0.142	JBQ	0.0314	5.20	1
11031	1234678-HpCDD	35822-46-9	0.493	JBQ	0.0502	5.20	1
11031	OCDD	3268-87-9	3.06	JB	0.0436	10.4	1
11031	2378-TCDF	51207-31-9	0.0394	U	0.0394	1.04	1
11031	12378-PeCDF	57117-41-6	0.0666	JBQ	0.0217	5.20	1
11031	23478-PeCDF	57117-31-4	0.0776	JB	0.0228	5.20	1
11031	123478-HxCDF	70648-26-9	0.0785	JQ	0.0227	5.20	1
11031	123678-HxCDF	57117-44-9	0.0558	JQ	0.0191	5.20	1
11031	123789-HxCDF	72918-21-9	0.0526	JQ	0.0252	5.20	1
11031	234678-HxCDF	60851-34-5	0.0514	JQ	0.0196	5.20	1
11031	1234678-HpCDF	67562-39-4	0.164	JB	0.0139	5.20	1
11031	1234789-HpCDF	55673-89-7	0.0532	JQ	0.0295	5.20	1
11031	OCDF	39001-02-0	0.415	JBQ	0.0756	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	51	26 - 138
13C12-OCDF	44	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-074-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-074-SA7-SB-4.0-5.0

LLI Sample # SW 6417462
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 12:25

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4106 SDG#: DX141-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-074-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-074-SA7-SB-4.0-5.0

LLI Sample # SW 6417462
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 12:25

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4106 SDG#: DX141-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11277002	10/06/2011 12:25	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11277002	10/04/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162402B	09/28/2011 20:26	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-075-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA7-SB-4.0-5.0

LLI Sample # SW 6417463
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:20

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4107 SDG#: DX141-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-075-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA7-SB-4.0-5.0

LLI Sample # SW 6417463
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:20

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4107 SDG#: DX141-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0863	JQ	0.0471	1.04	1
11031	12378-PeCDD	40321-76-4	0.224	JB	0.0417	5.22	1
11031	123478-HxCDD	39227-28-6	0.123	JQ	0.0354	5.22	1
11031	123678-HxCDD	57653-85-7	0.258	JQ	0.0351	5.22	1
11031	123789-HxCDD	19408-74-3	0.145	JB	0.0355	5.22	1
11031	1234678-HpCDD	35822-46-9	1.23	JB	0.0561	5.22	1
11031	OCDD	3268-87-9	9.92	JB	0.0448	10.4	1
11031	2378-TCDF	51207-31-9	0.124	JQ	0.0361	1.04	1
11031	12378-PeCDF	57117-41-6	0.252	JBQ	0.0195	5.22	1
11031	23478-PeCDF	57117-31-4	0.215	JB	0.0189	5.22	1
11031	123478-HxCDF	70648-26-9	0.228	JQ	0.0321	5.22	1
11031	123678-HxCDF	57117-44-9	0.158	J	0.0281	5.22	1
11031	123789-HxCDF	72918-21-9	0.163	J	0.0322	5.22	1
11031	234678-HxCDF	60851-34-5	0.130	J	0.0268	5.22	1
11031	1234678-HpCDF	67562-39-4	0.363	JB	0.0180	5.22	1
11031	1234789-HpCDF	55673-89-7	0.0340	JQ	0.0310	5.22	1
11031	OCDF	39001-02-0	1.06	JBQ	0.0760	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	52	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-075-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA7-SB-4.0-5.0

LLI Sample # SW 6417463
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:20

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4107 SDG#: DX141-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-075-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA7-SB-4.0-5.0

LLI Sample # SW 6417463
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:20

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4107 SDG#: DX141-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11277002	10/06/2011 13:22	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11277002	10/04/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162402B	09/28/2011 20:26	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-075-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA7-SB-9.0-10.0

LLI Sample # SW 6417464
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:26

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4108 SDG#: DX141-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-075-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA7-SB-9.0-10.0

LLI Sample # SW 6417464
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:26

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4108 SDG#: DX141-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0652	JQ	0.0414	1.08	1
11031	12378-PeCDD	40321-76-4	0.189	JBQ	0.0380	5.41	1
11031	123478-HxCDD	39227-28-6	0.0792	JQ	0.0455	5.41	1
11031	123678-HxCDD	57653-85-7	0.517	J	0.0443	5.41	1
11031	123789-HxCDD	19408-74-3	0.497	JBQ	0.0461	5.41	1
11031	1234678-HpCDD	35822-46-9	10.5	B	0.0758	5.41	1
11031	OCDD	3268-87-9	160	B	0.0911	10.8	1
11031	2378-TCDF	51207-31-9	0.135	JQ	0.0519	1.08	1
11031	12378-PeCDF	57117-41-6	0.445	JBQ	0.0370	5.41	1
11031	23478-PeCDF	57117-31-4	1.19	JBQ	0.0391	5.41	1
11031	123478-HxCDF	70648-26-9	3.01	J	0.0603	5.41	1
11031	123678-HxCDF	57117-44-9	0.536	J	0.0487	5.41	1
11031	123789-HxCDF	72918-21-9	0.400	JQ	0.0644	5.41	1
11031	234678-HxCDF	60851-34-5	0.516	J	0.0499	5.41	1
11031	1234678-HpCDF	67562-39-4	2.92	JB	0.0271	5.41	1
11031	1234789-HpCDF	55673-89-7	0.349	J	0.0493	5.41	1
11031	OCDF	39001-02-0	3.90	JB	0.0662	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	95	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	56	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-075-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA7-SB-9.0-10.0

LLI Sample # SW 6417464
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:26

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4108 SDG#: DX141-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-075-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-075-SA7-SB-9.0-10.0

LLI Sample # SW 6417464
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 08:26

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4108 SDG#: DX141-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11277002	10/06/2011 20:09	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11277002	10/04/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162402B	09/28/2011 20:26	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-077-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-077-SA7-SB-4.0-5.0

LLI Sample # SW 6417465
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 09:31

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4109 SDG#: DX141-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-077-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-077-SA7-SB-4.0-5.0

LLI Sample # SW 6417465
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 09:31

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4109 SDG#: DX141-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0426 U	0.0426	1.04	1
11031	12378-PeCDD	40321-76-4	0.0777 JBQ	0.0341	5.21	1
11031	123478-HxCDD	39227-28-6	0.0261 U	0.0261	5.21	1
11031	123678-HxCDD	57653-85-7	0.0556 JQ	0.0263	5.21	1
11031	123789-HxCDD	19408-74-3	0.0774 JBQ	0.0243	5.21	1
11031	1234678-HpCDD	35822-46-9	0.242 JB	0.0330	5.21	1
11031	OCDD	3268-87-9	1.65 JB	0.0303	10.4	1
11031	2378-TCDF	51207-31-9	0.0330 U	0.0330	1.04	1
11031	12378-PeCDF	57117-41-6	0.0621 JB	0.0174	5.21	1
11031	23478-PeCDF	57117-31-4	0.120 JBQ	0.0169	5.21	1
11031	123478-HxCDF	70648-26-9	0.0624 JQ	0.0338	5.21	1
11031	123678-HxCDF	57117-44-9	0.0318 U	0.0318	5.21	1
11031	123789-HxCDF	72918-21-9	0.0465 J	0.0182	5.21	1
11031	234678-HxCDF	60851-34-5	0.0444 JQ	0.0155	5.21	1
11031	1234678-HpCDF	67562-39-4	0.0493 JBQ	0.0177	5.21	1
11031	1234789-HpCDF	55673-89-7	0.0179 U	0.0179	5.21	1
11031	OCDF	39001-02-0	0.144 JB	0.0549	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	34	26 - 152
13C12-123678-HxCDF	38	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	53	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	57	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-077-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-077-SA7-SB-4.0-5.0

LLI Sample # SW 6417465
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 09:31

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4109 SDG#: DX141-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-077-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-077-SA7-SB-4.0-5.0

LLI Sample # SW 6417465
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 09:31

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4109 SDG#: DX141-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11277002	10/06/2011 21:05	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11277002	10/04/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162402B	09/28/2011 20:26	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA7-SB-092211 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-092211

LLI Sample # WW 6417466
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 13:00

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4110 SDG#: DX141-10EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.437	U	0.437	2.18	1
10915	12378-PeCDD	40321-76-4	0.380	J	0.376	10.9	1
10915	123478-HxCDD	39227-28-6	0.259	U	0.259	10.9	1
10915	123678-HxCDD	57653-85-7	0.243	U	0.243	10.9	1
10915	123789-HxCDD	19408-74-3	0.504	JBQ	0.235	10.9	1
10915	1234678-HpCDD	35822-46-9	2.86	JB	0.348	10.9	1
10915	OCDD	3268-87-9	3.94	JB	0.259	21.8	1
10915	2378-TCDF	51207-31-9	0.318	U	0.318	2.18	1
10915	12378-PeCDF	57117-41-6	0.179	U	0.179	10.9	1
10915	23478-PeCDF	57117-31-4	0.557	JB	0.152	10.9	1
10915	123478-HxCDF	70648-26-9	0.493	JBQ	0.183	10.9	1
10915	123678-HxCDF	57117-44-9	0.307	JB	0.183	10.9	1
10915	123789-HxCDF	72918-21-9	0.182	U	0.182	10.9	1
10915	234678-HxCDF	60851-34-5	0.313	JBQ	0.158	10.9	1
10915	1234678-HpCDF	67562-39-4	0.635	JB	0.149	10.9	1
10915	1234789-HpCDF	55673-89-7	0.165	U	0.165	10.9	1
10915	OCDF	39001-02-0	0.863	JB	0.417	21.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	78	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA7-SB-092211 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-092211

LLI Sample # WW 6417466
LLI Group # 1268062
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 13:00

Submitted: 09/23/2011 09:20
Reported: 10/13/2011 21:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4110 SDG#: DX141-10EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11270001	09/28/2011 22:53	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11270001	09/27/2011 07:50	Ginelle L Haines	1

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268062
Reported: 10/13/11 at 09:09 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11271162402A	Sample number(s): 6417457-6417460								
Moisture Content by 160.3					100		80-120		
Batch number: 11271162402B	Sample number(s): 6417461-6417465								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11270001	Sample number(s): 6417466								
2378-TCDD	0.736 J	0.708	2.00	pg/l	104		67-158		
12378-PeCDD	0.507 U	0.507	10.0	pg/l	104		70-142		
123478-HxCDD	0.378 U	0.378	10.0	pg/l	106		70-164		
123678-HxCDD	0.385 U	0.385	10.0	pg/l	101		76-134		
123789-HxCDD	0.399 J	0.352	10.0	pg/l	102		64-162		
1234678-HpCDD	3.23 J	0.402	10.0	pg/l	104		70-140		
OCDD	4.63 J	0.465	20.0	pg/l	103		78-144		
2378-TCDF	0.492 U	0.492	2.00	pg/l	98		75-158		
12378-PeCDF	0.430 J	0.274	10.0	pg/l	103		80-134		
23478-PeCDF	0.659 J	0.232	10.0	pg/l	101		68-160		
123478-HxCDF	0.497 J	0.275	10.0	pg/l	99		72-134		
123678-HxCDF	0.530 J	0.267	10.0	pg/l	101		84-130		
123789-HxCDF	0.247 U	0.247	10.0	pg/l	99		78-130		
234678-HxCDF	0.526 J	0.231	10.0	pg/l	100		70-156		
1234678-HpCDF	1.14 J	0.190	10.0	pg/l	101		82-122		
1234789-HpCDF	0.566 J	0.203	10.0	pg/l	101		78-138		
OCDF	1.21 J	0.464	20.0	pg/l	103		63-170		
Batch number: 11277002	Sample number(s): 6417457-6417465								
2378-TCDD	0.0582 U	0.0582	1.00	ng/kg	98		67-158		
12378-PeCDD	0.0413 J	0.0387	5.00	ng/kg	102		70-142		
123478-HxCDD	0.0279 U	0.0279	5.00	ng/kg	104		70-164		
123678-HxCDD	0.0283 U	0.0283	5.00	ng/kg	98		76-134		
123789-HxCDD	0.0334 J	0.0285	5.00	ng/kg	101		64-162		
1234678-HpCDD	0.192 J	0.0453	5.00	ng/kg	99		70-140		
OCDD	0.493 J	0.0348	10.0	ng/kg	98		78-144		
2378-TCDF	0.0434 U	0.0434	1.00	ng/kg	102		75-158		
12378-PeCDF	0.0219 J	0.0212	5.00	ng/kg	101		80-134		
23478-PeCDF	0.0315 J	0.0214	5.00	ng/kg	97		68-160		
123478-HxCDF	0.0209 U	0.0209	5.00	ng/kg	98		72-134		
123678-HxCDF	0.0186 U	0.0186	5.00	ng/kg	98		84-130		
123789-HxCDF	0.0236 U	0.0236	5.00	ng/kg	100		78-130		
234678-HxCDF	0.0184 U	0.0184	5.00	ng/kg	98		70-156		
1234678-HpCDF	0.130 J	0.0137	5.00	ng/kg	95		82-122		
1234789-HpCDF	0.0233 U	0.0233	5.00	ng/kg	99		78-138		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268062
Reported: 10/13/11 at 09:09 PM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
OCDF	0.0774 J	0.0694	10.0	ng/kg	98		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11271162402A	Sample number(s): 6417457-6417460					BKG: P417439			
Moisture Content by 160.3						10.6	10.4	2	20
Batch number: 11271162402B	Sample number(s): 6417461-6417465					BKG: P417443			
Moisture Content by 160.3						9.8	9.9	1	20
Batch number: 11277002	Sample number(s): 6417457-6417465					UNSPK: P418473			
2378-TCDD	99	100	67-158	0	25				
12378-PeCDD	100	101	70-142	0	25				
123478-HxCDD	99	100	70-164	0	25				
123678-HxCDD	97	96	76-134	1	25				
123789-HxCDD	98	97	64-162	2	25				
1234678-HpCDD	97	95	70-140	3	25				
OCDD	92	87	78-144	4	25				
2378-TCDF	104	99	75-158	5	25				
12378-PeCDF	97	96	80-134	2	25				
23478-PeCDF	93	98	68-160	4	25				
123478-HxCDF	95	94	72-134	1	25				
123678-HxCDF	95	94	84-130	1	25				
123789-HxCDF	95	97	78-130	2	25				
234678-HxCDF	95	95	70-156	1	25				
1234678-HpCDF	92	93	82-122	1	25				
1234789-HpCDF	96	96	78-138	1	25				
OCDF	96	96	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11270001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6417466	72	74	63	64	72	75
Blank	76	81	71	72	77	87
OPR	76	79	76	75	79	82
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6417466	68	75	78	72	72	76

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268062
Reported: 10/13/11 at 09:09 PM

Surrogate Quality Control

Blank	80	83	87	78	78	79
OPR	85	90	97	79	78	84
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6417466	74	78	80	75	73	
Blank	78	85	92	79	79	
OPR	82	93	103	78	79	
Limits:	28-130	23-140	17-157	24-169	24-185	

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11277002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6417457	79	68	62	73	73	77
6417458	76	65	64	76	68	70
6417459	67	58	59	71	64	65
6417460	61	54	45	57	58	49
6417461	66	59	62	74	64	57
6417462	66	63	62	72	66	62
6417463	75	72	59	69	70	70
6417464	82	74	61	76	76	69
6417465	68	66	34	38	72	73
Blank	83	74	73	84	81	76
MS	70	63	56	67	66	67
MSD	70	62	60	71	67	70
OPR	72	64	66	74	70	73
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6417457	82	63	59	71	81	83
6417458	89	57	53	72	78	88
6417459	85	53	46	61	74	78
6417460	68	47	39	60	68	70
6417461	89	48	43	66	75	77
6417462	86	51	44	66	74	74
6417463	82	58	52	74	80	81
6417464	91	61	56	81	87	95
6417465	53	62	57	70	74	82
Blank	96	70	62	82	92	96
MS	83	56	53	70	80	84
MSD	85	61	59	70	79	88
OPR	92	63	58	72	80	84
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6417457	93	81	75	77	74	
6417458	86	78	73	71	76	
6417459	83	75	66	62	64	
6417460	69	66	59	57	62	

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268062
Reported: 10/13/11 at 09:09 PM

Surrogate Quality Control

6417461	77	73	66	63	71
6417462	74	71	65	65	73
6417463	81	75	70	73	80
6417464	91	87	82	77	84
6417465	86	81	74	64	70
Blank	94	91	83	77	81
MS	89	80	77	63	71
MSD	87	82	81	63	72
OPR	82	85	80	64	70
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1268062 Sample# 6417457-66

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SS ONLY		SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
						*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	
SL-011-SA7-SS-0.0-0.5	09.22.11	1035	SOIL	NONE	1-SS Sleeve			X	X						X	X											
SL-011-SA7-SS-0.0-0.5	09.22.11	1035	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X														
SL-012-SA7-SS-0.0-0.5	09.22.11	1110	SOIL	NONE	1-SS Sleeve			X	X																		
SL-012-SA7-SS-0.0-0.5	09.22.11	1110	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		
SL-013-SA7-SS-0.0-0.5	09.22.11	1135	SOIL	NONE	1-SS Sleeve			X	X																		
SL-013-SA7-SS-0.0-0.5	09.22.11	1135	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		
SL-020-SA7-SS-0.0-0.5	09.22.11	1000	SOIL	NONE	1-SS Sleeve			X	X																		
SL-020-SA7-SS-0.0-0.5	09.22.11	1000	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		
SL-055-SA7-SS-0.0-0.5	09.22.11	0800	SOIL	NONE	1-SS Sleeve			X	X																		
SL-055-SA7-SS-0.0-0.5	09.22.11	0800	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
SL-088-SA7-SS-0.0-0.5	09.22.11	0855	SOIL	NONE	1-SS Sleeve			X	X																		
SL-088-SA7-SS-0.0-0.5	09.22.11	0855	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		
SL-101-SA7-SS-0.0-0.5	09.22.11	0925	SOIL	NONE	1-SS Sleeve			X	X																		
SL-101-SA7-SS-0.0-0.5	09.22.11	0925	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		X	X											
SL-151-SA7-SS-0.0-0.5	09.22.11	0740	SOIL	NONE	1-SS Sleeve			X	X																		
SL-151-SA7-SS-0.0-0.5	09.22.11	0740	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		
SL-023-SA7-SS-0.0-0.5	09.21.11	1415	SOIL	NONE	1-SS Sleeve			X	X																		
SL-023-SA7-SS-0.0-0.5	09.21.11	1415	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		
SL-141-SA7-SS-0.0-0.5	09.21.11	1445	SOIL	NONE	1-SS Sleeve			X	X																		
SL-141-SA7-SS-0.0-0.5	09.21.11	1445	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		
SL-142-SA7-SS-0.0-0.5	09.21.11	1400	SOIL	NONE	1-SS Sleeve			X	X																		
SL-142-SA7-SS-0.0-0.5	09.21.11	1400	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		
SL-143-SA7-SS-0.0-0.5	09.21.11	1340	SOIL	NONE	1-SS Sleeve			X	X																		
SL-143-SA7-SS-0.0-0.5	09.21.11	1340	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X	X	X	X	X					X	X	X	X		

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	09/22/2011 / 1600	LJ 9/23/M 0920	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8767 8583 3380,3391,3406,3417	

acct#13013 Qp#1268062 Sample# 6417457-66

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowanol EPA 8270	Other Instructions and Notes
SL-039-SA7-SB-4.5	09.22.11	1133	SOIL	NONE	2-Encores										X											
SL-039-SA7-SB-4.0-5.0	09.22.11	1132	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X		
SL-072-SA7-SB-4.5	09.22.11	1025	SOIL	NONE	2-Encores										X											
SL-072-SA7-SB-4.0-5.0	09.22.11	1024	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X		
SL-072-SA7-SB-8.0	09.22.11	1031	SOIL	NONE	2-Encores										X											
SL-072-SA7-SB-7.5-8.5	09.22.11	1030	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X		
SL-074-SA7-SB-4.5	09.22.11	1228	SOIL	NONE	2-Encores										X											
SL-074-SA7-SB-4.0-5.0	09.22.11	1225	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X		
SL-075-SA7-SB-4.5	09.22.11	0821	SOIL	NONE	2-Encores										X											
SL-075-SA7-SB-4.0-5.0	09.22.11	0820	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X		
SL-075-SA7-SB-9.5	09.22.11	0827	SOIL	NONE	2-Encores										X											
SL-075-SA7-SB-9.0-10.0	09.22.11	0826	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X		
SL-077-SA7-SB-4.5	09.22.11	0932	SOIL	NONE	2-Encores										X											
SL-077-SA7-SB-4.0-5.0	09.22.11	0931	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X		
TB-092211	09.22.11	0800	WATER	NONE	2-10mL vials										X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	09/22/2011 / 1600	LLJ 9123/11 0920	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8767 8583 3380,3391,3406,3417	

acct# 13013 Gp# 1268062 Sample # 6417457-66

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subareas 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dioxins# EPA 8270	Other Instructions and Notes
EB-SA7-SB-092211	09.22.11	1300	SOIL	NONE	10-1 liter ambers			X	X	X								X			X	X		X			X	
EB-SA7-SB-092211	09.22.11	1300	SOIL	NONE	1-500 mL poly		X				X	X	X																
EB-SA7-SB-092211	09.22.11	1300	SOIL	HNO3	1-500 mL poly	X																							
EB-SA7-SB-092211	09.22.11	1300	SOIL	NaOH	1-500 mL poly																		X						
EB-SA7-SB-092211	09.22.11	1300	SOIL	NONE	1-250 mL glass															X									
EB-SA7-SB-092211	09.22.11	1300	SOIL	HCL	11-40 mL vials										X	X	X									X			
EB-SA7-SB-092211	09.22.11	1300	SOIL	NONE	4-40 mL vials														X						X				

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	09/22/2011 / 1600	9/23/11 0920	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8767 8583 3380,3391,3406,3417	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 27, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/24/2011
Group Number: 1268211
SDG: DE252, DE253
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-015-SA7-SS-0.0-0.5 Soil	6418446
SL-015-SA7-SS-0.0-0.5MS Soil	6418447
SL-015-SA7-SS-0.0-0.5MSD Soil	6418448
SL-015-SA7-SS-0.0-0.5DUP Soil	6418449
SL-015-SA7-SS-0.0-0.5RL MS Soil	6418450
SL-015-SA7-SS-0.0-0.5RL LCS Soil	6418451
SL-139-SA7-SS-0.0-0.5 Soil	6418452
SL-140-SA7-SS-0.0-0.5 Soil	6418453
DUP05-SA7-QC-092211 Soil	6418454
SL-019-SA7-SS-0.0-0.5 Soil	6418455
SL-025-SA7-SS-0.0-0.5 Soil	6418456
SL-027-SA7-SS-0.0-0.5 Soil	6418457
SL-062-SA7-SS-0.0-0.5 Soil	6418458
SL-066-SA7-SS-0.0-0.5 Soil	6418459
SL-067-SA7-SS-0.0-0.5 Soil	6418460
SL-068-SA7-SS-0.0-0.5 Soil	6418461
SL-069-SA7-SS-0.0-0.5 Soil	6418462
SL-089-SA7-SS-0.0-0.5 Soil	6418463
SL-152-SA7-SS-0.0-0.5 Soil	6418464
SL-153-SA7-SS-0.0-0.5 Soil	6418465
SL-181-SA7-SS-0.0-0.5 Soil	6418466
SL-030-SA7-SB-4.0-5.0 Soil	6418467
SL-073-SA7-SB-4.0-5.0 Soil	6418468
SL-076-SA7-SB-2.5-3.5 Soil	6418469
SL-028-SA7-SB-4.0-5.0 Soil	6418470
SL-028-SA7-SB-8.0-9.0 Soil	6418471

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Analysis Report

TB-092311 Water 6418472

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Chad A. Moline
Group Leader

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418446
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5201 SDG#: DE252-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170		1
04688	4-Chloroaniline	106-47-8	66	U	66	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	330		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170		1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	66	U	66	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	33	U	33	170		1
04688	4-Methylphenol	106-44-5	33	U	33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	33	U	33	170		1
04688	4-Nitroaniline	100-01-6	66	U	66	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-015-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418446
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5201 SDG#: DE252-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.67	U	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.67	U	0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.9	J	6.0	18		1
10138	Fluoranthene	206-44-0	0.67	U	0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	0.67	U	0.67	1.7		1
10138	Pyrene	129-00-0	0.67	U	0.67	1.7		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	6.8	U	6.8	6.8		1
10401	Dicamba	1918-00-9	0.69	J	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	1,900		77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	The LCS data for MCPA is outside the QC limits. Results from the							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-015-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418446
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5201 SDG#: DE252-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that MCPA was not detected in the reextract.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	7.5		0.33	1.7		5
01363	p,p-DDT	50-29-3	0.93		0.067	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.28	U	0.28	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.20	U	0.20	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	3.7		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	2.0		0.33	1.7		1
10225	PCB-1260	11096-82-5	1.9		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
	The DCB surrogate data was outside the client specified limits at 122%; however it was within our in-house statistical limits of 53-142.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-015-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418446
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5201 SDG#: DE252-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
	The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	0.79	J	0.41	1.2		1
10199	EFH (C21-C30)	n.a.	6.8		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	17		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.41	U	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,600		6.13	20.3		1
07914	Boron	7440-42-8	8.65		0.365	5.07		1
01650	Calcium	7440-70-2	2,810		2.53	20.3		1
01654	Iron	7439-89-6	20,900		2.62	20.1		1
01656	Lithium	7439-93-2	23.1		0.63	2.0		1
01657	Magnesium	7439-95-4	4,660		0.446	10.1		1
06958	Manganese	7439-96-5	267		0.0365	0.507		1
10145	Phosphorus	7723-14-0	303		0.355	10.1		1
01662	Potassium	7440-09-7	2,460		11.4	50.7		1
01667	Sodium	7440-23-5	88.2	J	6.03	101		1
07968	Strontium	7440-24-6	15.4		0.0253	0.507		1
06969	Tin	7440-31-5	2.90	J	0.324	10.1		1
06970	Titanium	7440-32-6	1,250		0.0719	1.01		1
10146	Zirconium	7440-67-7	2.73	J	0.466	5.07		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.146	J	0.0735	0.199		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-015-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418446
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5201 SDG#: DE252-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.72		0.0795	0.397		2
06126	Barium	7440-39-3	87.7		0.105	0.397		2
06127	Beryllium	7440-41-7	0.644		0.0159	0.0993		2
06128	Cadmium	7440-43-9	0.233		0.0437	0.0993		2
06131	Chromium	7440-47-3	21.5		0.119	0.397		2
06132	Cobalt	7440-48-4	5.90		0.0199	0.0993		2
06133	Copper	7440-50-8	8.45		0.0795	0.397		2
06135	Lead	7439-92-1	9.31		0.0101	0.199		2
06138	Molybdenum	7439-98-7	0.540		0.0497	0.0993		2
06139	Nickel	7440-02-0	11.6		0.0993	0.397		2
06141	Selenium	7782-49-2	0.169	J	0.0576	0.397		2
06142	Silver	7440-22-4	0.0743	J	0.0141	0.0993		2
06145	Thallium	7440-28-0	0.270		0.0298	0.0993		2
06148	Vanadium	7440-62-2	39.2		0.0219	0.0993		2
06149	Zinc	7440-66-6	59.8		0.556	2.98		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	J	0.0068	0.0973		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.0		0.80	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	0.98		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.00		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-015-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418446
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5201 SDG#: DE252-01BKG

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.2C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 6.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLB026	10/04/2011 10:02	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274SLF026	10/08/2011 07:45	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11274SLF026	10/04/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLB026	10/03/2011 11:00	Olivia Arosemena	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112700013A	10/01/2011 06:42	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112730023A	10/06/2011 22:42	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112730023A	10/06/2011 22:56	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112720029A	10/03/2011 16:31	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112730023A	10/02/2011 10:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112720029A	09/30/2011 11:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112700013A	09/29/2011 02:00	Kerrie A Freeburn	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112720046A	09/30/2011 08:37	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112730031A	10/01/2011 00:57	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112740015A	10/05/2011 16:41	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112740008A	10/05/2011 09:16	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112740008A	10/03/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112740015A	10/03/2011 13:30	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112720046A	09/29/2011 22:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112730031A	09/30/2011 19:20	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708008	10/04/2011 00:39	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112695708008	10/04/2011 00:39	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112695708008	10/04/2011 00:39	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708002	10/06/2011 20:06	John P Hook	1
01656	Lithium	SW-846 6010B	1	112695708008	10/04/2011 00:39	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112695708008	10/04/2011 00:39	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112695708008	10/04/2011 00:39	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112695708008	10/04/2011 00:39	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112695708008	10/04/2011 00:39	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112695708008	10/04/2011 00:39	John W Yanzuk II	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-015-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418446
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5201 SDG#: DE252-01BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112695708008	10/04/2011 00:39	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112695708008	10/04/2011 00:39	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112695708008	10/04/2011 00:39	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112695708008	10/04/2011 00:39	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112691026003A	09/28/2011 09:58	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112691026003A	09/28/2011 09:58	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112691026003D	09/28/2011 09:58	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112691026003A	09/28/2011 09:58	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112691026003A	09/28/2011 09:58	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112691026003A	09/28/2011 09:58	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112691026003A	09/28/2011 09:58	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112691026003A	09/28/2011 09:58	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112691026003A	09/28/2011 09:58	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026003C	09/28/2011 09:58	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112691026003A	09/28/2011 09:58	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026003B	09/28/2011 09:58	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112691026003A	09/28/2011 09:58	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112691026003A	09/28/2011 09:58	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112691026003A	09/28/2011 09:58	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112691026003A	09/28/2011 09:58	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112695711005	09/28/2011 09:34	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708008	09/27/2011 22:28	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708003	10/04/2011 23:07	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708002	10/05/2011 22:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026003	09/27/2011 22:31	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711005	09/28/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621202A	10/01/2011 07:00	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11273373201A	10/01/2011 12:12	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11278243202A	10/06/2011 17:11	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11278102201A	10/05/2011 20:15	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621202A	09/30/2011 06:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11273373201A	09/30/2011 06:25	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11278102201A	10/05/2011 15:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11280039401A	10/07/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11278243202A	10/05/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403A	09/28/2011 21:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-015-SA7-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418447
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5201 SDG#: DE252-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,500		17	170		1
04688	Acenaphthylene	208-96-8	1,600		17	170		1
04688	Aniline	62-53-3	1,200		170	500		1
04688	Anthracene	120-12-7	1,600		17	170		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzo(a)anthracene	56-55-3	1,500		17	170		1
04688	Benzo(a)pyrene	50-32-8	1,600		17	170		1
04688	Benzo(b)fluoranthene	205-99-2	1,700		17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	1,600		17	170		1
04688	Benzo(k)fluoranthene	207-08-9	1,600		17	170		1
04688	Benzoic acid	65-85-0	280	J	170	500		1
04688	Benzyl alcohol	100-51-6	1,600		170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	1,500		17	170		1
04688	Butylbenzylphthalate	85-68-7	1,600		17	170		1
04688	Di-n-butylphthalate	84-74-2	1,600		17	170		1
04688	Carbazole	86-74-8	1,600		17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	1,700		33	170		1
04688	4-Chloroaniline	106-47-8	1,200		66	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,600		17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,400		17	170		1
04688	2-Chloronaphthalene	91-58-7	1,400		17	170		1
04688	2-Chlorophenol	95-57-8	1,600		17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,400		33	170		1
04688	Chrysene	218-01-9	1,500		17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	1,600		17	170		1
04688	Dibenzofuran	132-64-9	1,500		17	170		1
04688	1,2-Dichlorobenzene	95-50-1	1,400		17	170		1
04688	1,3-Dichlorobenzene	541-73-1	1,400		17	170		1
04688	1,4-Dichlorobenzene	106-46-7	1,400		17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,100		100	330		1
04688	2,4-Dichlorophenol	120-83-2	1,600		17	170		1
04688	Diethylphthalate	84-66-2	1,500		17	170		1
04688	2,4-Dimethylphenol	105-67-9	1,700		33	170		1
04688	3,5-Dimethylphenol	108-68-9	1,600		33	170		1
04688	Dimethylphthalate	131-11-3	1,500		17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,000		170	500		1
04688	2,4-Dinitrophenol	51-28-5	750	J	330	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	1,500		33	170		1
04688	2,6-Dinitrotoluene	606-20-2	1,600		17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	1,600		17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,600		17	330		1
04688	Fluoranthene	206-44-0	1,700		17	170		1
04688	Fluorene	86-73-7	1,500		17	170		1
04688	Hexachlorobenzene	118-74-1	1,500		17	170		1
04688	Hexachlorobutadiene	87-68-3	1,400		66	170		1
04688	Hexachlorocyclopentadiene	77-47-4	2,700		170	500		1
04688	Hexachloroethane	67-72-1	1,400		17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600		17	170		1
04688	Isophorone	78-59-1	1,600		17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-015-SA7-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418447
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5201 SDG#: DE252-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1-Methylnaphthalene	90-12-0	1,600		17	170		1
04688	2-Methylnaphthalene	91-57-6	1,600		17	170		1
04688	2-Methylphenol	95-48-7	1,600		33	170		1
04688	4-Methylphenol	106-44-5	1,600		33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,500		17	170		1
04688	2-Nitroaniline	88-74-4	1,500		17	170		1
04688	3-Nitroaniline	99-09-2	1,500		33	170		1
04688	4-Nitroaniline	100-01-6	1,100		66	170		1
04688	Nitrobenzene	98-95-3	1,600		17	170		1
04688	2-Nitrophenol	88-75-5	1,700		17	170		1
04688	4-Nitrophenol	100-02-7	1,400		170	500		1
04688	N-Nitrosodimethylamine	62-75-9	1,400		33	170		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,400		17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	1,600		17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	1,600		17	170		1
04688	Pentachlorophenol	87-86-5	1,300		170	500		1
04688	Phenanthrene	85-01-8	1,600		17	170		1
04688	Phenol	108-95-2	1,600		17	170		1
04688	Pyrene	129-00-0	1,500		17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	1,500		17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	1,500		33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	1,600		33	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	29		0.67	1.7		1
10138	Acenaphthylene	208-96-8	27		0.34	1.7		1
10138	Anthracene	120-12-7	31		0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	36		0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	37		0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	38		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	31		0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	38		0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	37		6.1	18		1
10138	Di-n-butylphthalate	84-74-2	34		6.1	18		1
10138	Chrysene	218-01-9	35		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	32		0.67	1.7		1
10138	Diethylphthalate	84-66-2	35		6.1	18		1
10138	Dimethylphthalate	131-11-3	32		6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	36		6.1	18		1

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Sample Description: **SL-015-SA7-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418447
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5201 SDG#: DE252-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	34		0.67	1.7		1
10138	Fluorene	86-73-7	34		0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	32		0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	29		0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	28		0.67	1.7		1
10138	Naphthalene	91-20-3	29		0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	26		0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	41		6.1	18		1
10138	Phenanthrene	85-01-8	30		0.67	1.7		1
10138	Pyrene	129-00-0	36		0.67	1.7		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	3.0	J	1.2	3.6		1
10401	Dalapon	75-99-0	14		4.4	9.1		1
10401	2,4-DB	94-82-6	23		0.63	1.7		1
10401	Dicamba	1918-00-9	1.2	J	0.41	1.2		1
10401	Dinoseb	88-85-7	1.4	J	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	9.6		0.81	1.7		1
10401	MCPA	94-74-6	560		77	250		1
10401	MCPP (Mecoprop)	93-65-2	340		76	250		1
10401	2,4,5-T	93-76-5	0.50		0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.63		0.076	0.17		1
	The LCS data for MCPA is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.27		0.067	0.17		1
01363	Alpha BHC	319-84-6	0.27		0.034	0.17		1
01363	Beta BHC	319-85-7	2.4	E	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.28		0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.90		0.067	0.34		1
01363	p,p-DDE	72-55-9	9.2		0.067	0.34		1
01363	p,p-DDT	50-29-3	1.6		0.067	0.34		1
01363	Delta BHC	319-86-8	0.35		0.036	0.17		1
01363	Dieldrin	60-57-1	0.68		0.067	0.34		1
01363	Endosulfan I	959-98-8	0.31		0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.68		0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.57		0.067	0.34		1
01363	Endrin	72-20-8	0.60		0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.59		0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.71		0.067	0.34		1
01363	Heptachlor	76-44-8	0.27		0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.33		0.034	0.17		1
01363	Methoxychlor	72-43-5	3.6		0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1

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Sample Description: **SL-015-SA7-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418447
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5201 SDG#: DE252-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	3.0	J	1.0	3.3		1
10225	PCB-1016	12674-11-2	16		0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	7.4		0.33	1.7		1
10225	PCB-1260	11096-82-5	19		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	1,800		100	510		1
10501	Isopropanol	67-63-0	1,700		100	510		1
10501	Methanol	67-56-1	2,400		100	510		1
	The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	30		5.1	10		1
08283	Propylene glycol	57-55-6	48		5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	7.3		1.5	3.5		1
10318	o-Terphenyl	84-15-1	7.6		1.5	3.5		1
10318	p-Terphenyl	92-94-4	7.5		1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.64	J	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	1.5		0.41	1.2		1
10199	EFH (C21-C30)	n.a.	6.6		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	11		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.57	J	0.41	1.2		1

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Sample Description: **SL-015-SA7-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418447
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5201 SDG#: DE252-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,800	5.95	19.7		1
07914	Boron	7440-42-8	195	0.354	4.92		1
01650	Calcium	7440-70-2	3,280	2.46	19.7		1
01654	Iron	7439-89-6	20,800	2.57	19.7		1
01656	Lithium	7439-93-2	119	0.61	2.0		1
01657	Magnesium	7439-95-4	5,070	0.433	9.84		1
06958	Manganese	7439-96-5	309	0.0354	0.492		1
10145	Phosphorus	7723-14-0	382	0.344	9.84		1
01662	Potassium	7440-09-7	3,700	11.1	49.2		1
01667	Sodium	7440-23-5	1,030	5.85	98.4		1
07968	Strontium	7440-24-6	111	0.0246	0.492		1
06969	Tin	7440-31-5	353	0.315	9.84		1
06970	Titanium	7440-32-6	1,460	0.0698	0.984		1
10146	Zirconium	7440-67-7	95.6	0.452	4.92		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.811	0.0742	0.201		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.52	0.0803	0.401		2
06126	Barium	7440-39-3	116	0.106	0.401		2
06127	Beryllium	7440-41-7	1.70	0.0161	0.100		2
06128	Cadmium	7440-43-9	1.60	0.0441	0.100		2
06131	Chromium	7440-47-3	36.4	0.120	0.401		2
06132	Cobalt	7440-48-4	76.5	0.0201	0.100		2
06133	Copper	7440-50-8	23.6	0.0803	0.401		2
06135	Lead	7439-92-1	14.5	0.0102	0.201		2
06138	Molybdenum	7439-98-7	14.7	0.0502	0.100		2
06139	Nickel	7440-02-0	27.6	0.100	0.401		2
06141	Selenium	7782-49-2	2.79	0.0582	0.401		2
06142	Silver	7440-22-4	14.0	0.0142	0.100		2
06145	Thallium	7440-28-0	0.897	0.0301	0.100		2
06148	Vanadium	7440-62-2	59.2	0.0221	0.100		2
06149	Zinc	7440-66-6	84.8	0.562	3.01		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.177	0.0070	0.0994		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	9.2	0.83	1.0		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	582	9.1	30.4		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	33.1	0.97	4.9		5

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Sample Description: **SL-015-SA7-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418447
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5201 SDG#: DE252-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		mg/kg	mg/kg	mg/kg	mg/kg	
05895	16a Cyanide by 9012B	57-12-5	4.5	0.18	0.49		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	1.3	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.2C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 6.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLB026	10/04/2011 10:26	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274SLF026	10/08/2011 08:17	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11274SLF026	10/04/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLB026	10/03/2011 11:00	Olivia Arosemena	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112700013A	10/01/2011 07:09	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112730023A	10/06/2011 23:10	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112720029A	10/03/2011 16:50	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112730023A	10/02/2011 10:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112720029A	09/30/2011 11:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112700013A	09/29/2011 02:00	Kerrie A Freeburn	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112720046A	09/30/2011 13:01	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112730031A	10/01/2011 01:10	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112740015A	10/05/2011 17:08	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112740008A	10/05/2011 09:40	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112740008A	10/03/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112740015A	10/03/2011 13:30	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112720046A	09/29/2011 22:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112730031A	09/30/2011 19:20	Tyler O Griffin	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-015-SA7-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418447
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5201 SDG#: DE252-01MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	112695708008	10/04/2011 00:49	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112695708008	10/04/2011 00:49	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112695708008	10/04/2011 00:49	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708002	10/06/2011 20:17	John P Hook	1
01656	Lithium	SW-846 6010B	1	112695708008	10/04/2011 00:49	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112695708008	10/04/2011 00:49	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112695708008	10/04/2011 00:49	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112695708008	10/04/2011 00:49	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112695708008	10/04/2011 00:49	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112695708008	10/04/2011 00:49	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112695708008	10/04/2011 00:49	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112695708008	10/04/2011 00:49	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112695708008	10/04/2011 00:49	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112695708008	10/04/2011 00:49	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112691026003A	09/28/2011 10:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112691026003A	09/28/2011 10:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112691026003D	09/28/2011 10:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112691026003A	09/28/2011 10:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112691026003A	09/28/2011 10:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112691026003A	09/28/2011 10:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112691026003A	09/28/2011 10:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112691026003A	09/28/2011 10:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112691026003A	09/28/2011 10:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026003C	09/28/2011 10:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112691026003A	09/28/2011 10:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026003B	09/28/2011 10:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112691026003A	09/28/2011 10:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112691026003A	09/28/2011 10:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112691026003A	09/28/2011 10:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112691026003A	09/28/2011 10:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112695711005	09/28/2011 09:38	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708008	09/27/2011 22:28	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708003	10/04/2011 23:07	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708002	10/05/2011 22:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026003	09/27/2011 22:31	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711005	09/28/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621202A	10/01/2011 07:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11273373201A	10/01/2011 12:59	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11278243202A	10/06/2011 17:39	Elyse P Brunstetter	5
05895	16a Cyanide by 9012B	SW-846 9012B	1	11278102201A	10/05/2011 20:16	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621202A	09/30/2011 06:15	William L Hamaker Jr	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-015-SA7-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418447
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5201 SDG#: DE252-01MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11273373201A	09/30/2011 06:25	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11278102201A	10/05/2011 15:45	Carolyn M Mastropietro	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11278243202A	10/05/2011 11:30	Michelle L Lalli	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403A	09/28/2011 21:38	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-015-SA7-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418448
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5201 SDG#: DE252-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600		17	170		1
04688	Acenaphthylene	208-96-8	1,700		17	170		1
04688	Aniline	62-53-3	1,200		170	500		1
04688	Anthracene	120-12-7	1,700		17	170		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzo(a)anthracene	56-55-3	1,600		17	170		1
04688	Benzo(a)pyrene	50-32-8	1,700		17	170		1
04688	Benzo(b)fluoranthene	205-99-2	1,700		17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	1,600		17	170		1
04688	Benzo(k)fluoranthene	207-08-9	1,600		17	170		1
04688	Benzoic acid	65-85-0	240	J	170	500		1
04688	Benzyl alcohol	100-51-6	1,600		170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	1,600		17	170		1
04688	Butylbenzylphthalate	85-68-7	1,700		17	170		1
04688	Di-n-butylphthalate	84-74-2	1,700		17	170		1
04688	Carbazole	86-74-8	1,600		17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	1,700		33	170		1
04688	4-Chloroaniline	106-47-8	1,200		66	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,500		17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,500		17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,400		17	170		1
04688	2-Chloronaphthalene	91-58-7	1,500		17	170		1
04688	2-Chlorophenol	95-57-8	1,700		17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,500		33	170		1
04688	Chrysene	218-01-9	1,500		17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	1,700		17	170		1
04688	Dibenzofuran	132-64-9	1,500		17	170		1
04688	1,2-Dichlorobenzene	95-50-1	1,400		17	170		1
04688	1,3-Dichlorobenzene	541-73-1	1,400		17	170		1
04688	1,4-Dichlorobenzene	106-46-7	1,400		17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,100		100	330		1
04688	2,4-Dichlorophenol	120-83-2	1,600		17	170		1
04688	Diethylphthalate	84-66-2	1,600		17	170		1
04688	2,4-Dimethylphenol	105-67-9	1,700		33	170		1
04688	3,5-Dimethylphenol	108-68-9	1,600		33	170		1
04688	Dimethylphthalate	131-11-3	1,600		17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	940		170	500		1
04688	2,4-Dinitrophenol	51-28-5	580	J	330	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	1,600		33	170		1
04688	2,6-Dinitrotoluene	606-20-2	1,700		17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	1,700		17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,600		17	330		1
04688	Fluoranthene	206-44-0	1,700		17	170		1
04688	Fluorene	86-73-7	1,600		17	170		1
04688	Hexachlorobenzene	118-74-1	1,500		17	170		1
04688	Hexachlorobutadiene	87-68-3	1,400		66	170		1
04688	Hexachlorocyclopentadiene	77-47-4	2,900		170	500		1
04688	Hexachloroethane	67-72-1	1,400		17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,700		17	170		1
04688	Isophorone	78-59-1	1,500		17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-015-SA7-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418448
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5201 SDG#: DE252-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,500		17	170		1
04688	2-Methylnaphthalene	91-57-6	1,600		17	170		1
04688	2-Methylphenol	95-48-7	1,600		33	170		1
04688	4-Methylphenol	106-44-5	1,600		33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,500		17	170		1
04688	2-Nitroaniline	88-74-4	1,600		17	170		1
04688	3-Nitroaniline	99-09-2	1,500		33	170		1
04688	4-Nitroaniline	100-01-6	1,100		66	170		1
04688	Nitrobenzene	98-95-3	1,600		17	170		1
04688	2-Nitrophenol	88-75-5	1,700		17	170		1
04688	4-Nitrophenol	100-02-7	1,400		170	500		1
04688	N-Nitrosodimethylamine	62-75-9	1,400		33	170		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,400		17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	1,700		17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	1,700		17	170		1
04688	Pentachlorophenol	87-86-5	1,200		170	500		1
04688	Phenanthrene	85-01-8	1,600		17	170		1
04688	Phenol	108-95-2	1,600		17	170		1
04688	Pyrene	129-00-0	1,600		17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	1,400		17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	1,600		33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	1,700		33	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	30		0.67	1.7		1
10138	Acenaphthylene	208-96-8	27		0.33	1.7		1
10138	Anthracene	120-12-7	31		0.33	1.7		1
10138	Benzo(a)anthracene	56-55-3	34		0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	36		0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	36		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	30		0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	37		0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	37		6.0	18		1
10138	Di-n-butylphthalate	84-74-2	34		6.0	18		1
10138	Chrysene	218-01-9	34		0.33	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	31		0.67	1.7		1
10138	Diethylphthalate	84-66-2	34		6.0	18		1
10138	Dimethylphthalate	131-11-3	32		6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	36		6.0	18		1

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Sample Description: SL-015-SA7-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418448
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5201 SDG#: DE252-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	33		0.67	1.7		1
10138	Fluorene	86-73-7	34		0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	31		0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	29		0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	28		0.67	1.7		1
10138	Naphthalene	91-20-3	29		0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	27		0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	42		6.0	18		1
10138	Phenanthrene	85-01-8	30		0.67	1.7		1
10138	Pyrene	129-00-0	35		0.67	1.7		1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	2.6	J	1.2	3.6		1
10401	Dalapon	75-99-0	12		4.5	9.1		1
10401	2,4-DB	94-82-6	24		0.63	1.7		1
10401	Dicamba	1918-00-9	1.2		0.41	1.2		1
10401	Dinoseb	88-85-7	1.5	J	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	8.5		0.81	1.7		1
10401	MCPA	94-74-6	760		77	250		1
10401	MCPP (Mecoprop)	93-65-2	340		76	250		1
10401	2,4,5-T	93-76-5	0.50		0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.61		0.076	0.17		1
	The LCS data for MCPA is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.28		0.067	0.17		1
01363	Alpha BHC	319-84-6	0.26		0.034	0.17		1
01363	Beta BHC	319-85-7	0.31		0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.27		0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	11		0.067	0.34		1
01363	p,p-DDT	50-29-3	1.7		0.067	0.34		1
01363	Delta BHC	319-86-8	0.37		0.036	0.17		1
01363	Dieldrin	60-57-1	0.69		0.067	0.34		1
01363	Endosulfan I	959-98-8	0.34		0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.74		0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.35		0.067	0.34		1
01363	Endrin	72-20-8	0.59		0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.66		0.067	0.34		1
01363	Endrin Ketone	53494-70-5	1.1		0.067	0.34		1
01363	Heptachlor	76-44-8	0.28		0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.34		0.034	0.17		1
01363	Methoxychlor	72-43-5	3.7		0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-015-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418448
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5201 SDG#: DE252-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	5.8		1.0	3.3		1
10225	PCB-1016	12674-11-2	15		0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	6.8		0.33	1.7		1
10225	PCB-1260	11096-82-5	20		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,800		100	510		1
10501	Isopropanol	67-63-0	2,600		100	510		1
10501	Methanol	67-56-1	3,400		100	510		1
	The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	28		5.1	10		1
08283	Propylene glycol	57-55-6	46		5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	7.4		1.5	3.5		1
10318	o-Terphenyl	84-15-1	7.6		1.5	3.5		1
10318	p-Terphenyl	92-94-4	7.6		1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.66	J	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	1.6		0.41	1.2		1
10199	EFH (C21-C30)	n.a.	6.5		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	15		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.63	J	0.41	1.2		1

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-015-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418448
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5201 SDG#: DE252-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,000	5.89	19.5		1
07914	Boron	7440-42-8	195	0.351	4.87		1
01650	Calcium	7440-70-2	3,370	2.44	19.5		1
01654	Iron	7439-89-6	20,700	2.59	19.9		1
01656	Lithium	7439-93-2	118	0.60	1.9		1
01657	Magnesium	7439-95-4	5,180	0.429	9.74		1
06958	Manganese	7439-96-5	314	0.0351	0.487		1
10145	Phosphorus	7723-14-0	397	0.341	9.74		1
01662	Potassium	7440-09-7	3,790	11.0	48.7		1
01667	Sodium	7440-23-5	1,020	5.80	97.4		1
07968	Strontium	7440-24-6	110	0.0244	0.487		1
06969	Tin	7440-31-5	349	0.312	9.74		1
06970	Titanium	7440-32-6	1,500	0.0692	0.974		1
10146	Zirconium	7440-67-7	96.1	0.448	4.87		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.912	0.0750	0.203		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.02	0.0811	0.405		2
06126	Barium	7440-39-3	114	0.107	0.405		2
06127	Beryllium	7440-41-7	1.60	0.0162	0.101		2
06128	Cadmium	7440-43-9	1.54	0.0446	0.101		2
06131	Chromium	7440-47-3	34.6	0.122	0.405		2
06132	Cobalt	7440-48-4	72.8	0.0203	0.101		2
06133	Copper	7440-50-8	22.8	0.0811	0.405		2
06135	Lead	7439-92-1	13.8	0.0103	0.203		2
06138	Molybdenum	7439-98-7	14.1	0.0507	0.101		2
06139	Nickel	7440-02-0	26.5	0.101	0.405		2
06141	Selenium	7782-49-2	2.74	0.0588	0.405		2
06142	Silver	7440-22-4	13.4	0.0144	0.101		2
06145	Thallium	7440-28-0	0.873	0.0304	0.101		2
06148	Vanadium	7440-62-2	55.8	0.0223	0.101		2
06149	Zinc	7440-66-6	80.5	0.567	3.04		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.172	0.0068	0.0963		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	1.3	0.50	0.50		1

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Analysis Report

Sample Description: **SL-015-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418448
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5201 SDG#: DE252-01MSD

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.2C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 6.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLB026	10/04/2011 10:52	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274SLF026	10/08/2011 08:50	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11274SLF026	10/04/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLB026	10/03/2011 11:00	Olivia Arosemena	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112700013A	10/01/2011 07:37	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112730023A	10/06/2011 23:24	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112720029A	10/03/2011 17:09	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112730023A	10/02/2011 10:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112720029A	09/30/2011 11:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112700013A	09/29/2011 02:00	Kerrie A Freeburn	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112720046A	09/30/2011 13:17	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112730031A	10/01/2011 01:23	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112740015A	10/05/2011 17:36	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112740008A	10/05/2011 10:04	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112740008A	10/03/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112740015A	10/03/2011 13:30	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112720046A	09/29/2011 22:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112730031A	09/30/2011 19:20	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708008	10/04/2011 00:53	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112695708008	10/04/2011 00:53	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112695708008	10/04/2011 00:53	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708002	10/06/2011 20:21	John P Hook	1
01656	Lithium	SW-846 6010B	1	112695708008	10/04/2011 00:53	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112695708008	10/04/2011 00:53	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112695708008	10/04/2011 00:53	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112695708008	10/04/2011 00:53	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112695708008	10/04/2011 00:53	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112695708008	10/04/2011 00:53	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112695708008	10/04/2011 00:53	John W Yanzuk II	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-015-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418448
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5201 SDG#: DE252-01MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112695708008	10/04/2011 00:53	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112695708008	10/04/2011 00:53	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112695708008	10/04/2011 00:53	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112691026003A	09/28/2011 10:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112691026003A	09/28/2011 10:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112691026003D	09/28/2011 10:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112691026003A	09/28/2011 10:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112691026003A	09/28/2011 10:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112691026003A	09/28/2011 10:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112691026003A	09/28/2011 10:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112691026003A	09/28/2011 10:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112691026003A	09/28/2011 10:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026003C	09/28/2011 10:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112691026003A	09/28/2011 10:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026003B	09/28/2011 10:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112691026003A	09/28/2011 10:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112691026003A	09/28/2011 10:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112691026003A	09/28/2011 10:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112691026003A	09/28/2011 10:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112695711005	09/28/2011 09:39	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708008	09/27/2011 22:28	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708003	10/04/2011 23:07	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708002	10/05/2011 22:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026003	09/27/2011 22:31	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711005	09/28/2011 01:00	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403A	09/28/2011 21:38	Scott W Freisher	1

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Analysis Report

Sample Description: SL-015-SA7-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418449
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5201 SDG#: DE252-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,600		6.07	20.1		1
07914	Boron	7440-42-8	8.74		0.361	5.02		1
01650	Calcium	7440-70-2	2,750		2.51	20.1		1
01654	Iron	7439-89-6	19,500		2.54	19.5		1
01656	Lithium	7439-93-2	23.1		0.62	2.0		1
01657	Magnesium	7439-95-4	4,660		0.441	10.0		1
06958	Manganese	7439-96-5	268		0.0361	0.502		1
10145	Phosphorus	7723-14-0	289		0.351	10.0		1
01662	Potassium	7440-09-7	2,530		11.3	50.2		1
01667	Sodium	7440-23-5	89.8	J	5.97	100		1
07968	Strontium	7440-24-6	15.5		0.0251	0.502		1
06969	Tin	7440-31-5	2.92	J	0.321	10.0		1
06970	Titanium	7440-32-6	1,220		0.0712	1.00		1
10146	Zirconium	7440-67-7	3.41	J	0.461	5.02		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.169	J	0.0750	0.203		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.73		0.0811	0.405		2
06126	Barium	7440-39-3	106		0.107	0.405		2
06127	Beryllium	7440-41-7	0.749		0.0162	0.101		2
06128	Cadmium	7440-43-9	0.237		0.0446	0.101		2
06131	Chromium	7440-47-3	25.4		0.122	0.405		2
06132	Cobalt	7440-48-4	7.85		0.0203	0.101		2
06133	Copper	7440-50-8	9.85		0.0811	0.405		2
06135	Lead	7439-92-1	10.4		0.0103	0.203		2
06138	Molybdenum	7439-98-7	0.645		0.0507	0.101		2
06139	Nickel	7440-02-0	14.2		0.101	0.405		2
06141	Selenium	7782-49-2	0.224	J	0.0588	0.405		2
06142	Silver	7440-22-4	0.0641	J	0.0144	0.101		2
06145	Thallium	7440-28-0	0.329		0.0304	0.101		2
06148	Vanadium	7440-62-2	48.9		0.0223	0.101		2
06149	Zinc	7440-66-6	75.1		0.567	3.04		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0070	U	0.0070	0.100		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.0		0.83	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36	J	0.20	1.0		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA7-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418449
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5201 SDG#: DE252-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.05		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	1.4		0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.							
11625	Moisture Content by 160.3	n.a.	1.3		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.2C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 6.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	112695708008	10/04/2011 00:46	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112695708008	10/04/2011 00:46	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112695708008	10/04/2011 00:46	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708002	10/06/2011 20:14	John P Hook	1
01656	Lithium	SW-846 6010B	1	112695708008	10/04/2011 00:46	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112695708008	10/04/2011 00:46	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112695708008	10/04/2011 00:46	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112695708008	10/04/2011 00:46	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112695708008	10/04/2011 00:46	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112695708008	10/04/2011 00:46	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112695708008	10/04/2011 00:46	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112695708008	10/04/2011 00:46	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112695708008	10/04/2011 00:46	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112695708008	10/04/2011 00:46	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112691026003A	09/28/2011 10:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112691026003A	09/28/2011 10:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112691026003D	09/28/2011 10:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112691026003A	09/28/2011 10:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112691026003A	09/28/2011 10:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112691026003A	09/28/2011 10:04	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **SL-015-SA7-SS-0.0-0.5DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418449
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5201 SDG#: DE252-01DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	112691026003A	09/28/2011 10:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112691026003A	09/28/2011 10:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112691026003A	09/28/2011 10:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026003C	09/28/2011 10:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112691026003A	09/28/2011 10:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026003B	09/28/2011 10:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112691026003A	09/28/2011 10:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112691026003A	09/28/2011 10:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112691026003A	09/28/2011 10:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112691026003A	09/28/2011 10:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112695711005	09/28/2011 09:37	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708008	09/27/2011 22:28	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708003	10/04/2011 23:07	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708002	10/05/2011 22:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026003	09/27/2011 22:31	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711005	09/28/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621202A	10/01/2011 07:15	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11273373201A	10/01/2011 12:35	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11278243202A	10/06/2011 18:20	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11278102201A	10/05/2011 20:17	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621202A	09/30/2011 06:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11273373201A	09/30/2011 06:25	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11278102201A	10/05/2011 15:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11280039401A	10/07/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11278243202A	10/05/2011 11:30	Michelle L Lalli	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11271162403A	09/28/2011 21:38	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403A	09/28/2011 21:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-015-SA7-SS-0.0-0.5RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418450
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5201 SDG#: DE252-01RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	3.3	U	3.3	3.3		1
10401	Dicamba	1918-00-9	1.2		0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	1.3	J	0.81	1.7		1
10401	MCPA	94-74-6	97	U	97	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.18		0.067	0.17		1
01363	Alpha BHC	319-84-6	0.13	J	0.034	0.17		1
01363	Beta BHC	319-85-7	0.18		0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.15	J	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.72		0.067	0.34		1
01363	p,p-DDE	72-55-9	5.9		0.067	0.34		1
01363	p,p-DDT	50-29-3	1.1		0.067	0.34		1
01363	Delta BHC	319-86-8	0.19		0.036	0.17		1
01363	Dieldrin	60-57-1	0.38		0.067	0.34		1
01363	Endosulfan I	959-98-8	0.23		0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.42		0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.44		0.067	0.34		1
01363	Endrin	72-20-8	0.34	J	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.36		0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.39		0.067	0.34		1
01363	Heptachlor	76-44-8	0.16	J	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.20		0.034	0.17		1
01363	Methoxychlor	72-43-5	2.8		0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

Methoxychlor is outside the QC limits for the Laboratory Control Spike at 143%.
Since this sample is used as the reporting limit standard, the data is reported.
The DCB surrogate recovery is outside the client specified QC limits. However the recovery is within our in house statistical limits of 45-150%.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	3.3	J	1.0	3.3		1
10225	PCB-1016	12674-11-2	1.9		0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-015-SA7-SS-0.0-0.5RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418450
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5201 SDG#: DE252-01RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	4.1		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	850		100	510		1
10501	Isopropanol	67-63-0	790		100	510		1
10501	Methanol	67-56-1	1,300		100	510		1

The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.

GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1

The holding time was not met. The sample was submitted to the laboratory outside of the extraction holding time. The client was notified and approved proceeding with the analysis.

GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	0.88	J	0.41	1.2		1
10199	EFH (C21-C30)	n.a.	4.2		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	9.8		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.41	U	0.41	1.2		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	1.3		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.2C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 6.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-015-SA7-SS-0.0-0.5RL MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418450
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5201 SDG#: DE252-01RLR

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112700013A	10/01/2011 08:04	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/16/2011 22:16	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112720029A	10/03/2011 17:28	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	112840037A	10/02/2011 10:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112720029A	09/30/2011 11:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112700013A	09/29/2011 02:00	Kerrie A Freeburn	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112720046A	09/30/2011 13:34	Elizabeth J Marin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112740015A	10/05/2011 18:03	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112740008A	10/05/2011 10:28	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112740008A	10/03/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112740015A	10/03/2011 13:30	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112720046A	09/29/2011 22:30	Elizabeth J Marin	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403A	09/28/2011 21:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA7-SS-0.0-0.5RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418451
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5201 SDG#: DE252-01RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	4.4		1.2	3.6		1
10401	Dalapon	75-99-0	8.5	J	4.4	9.0		1
10401	2,4-DB	94-82-6	1.8		0.62	1.7		1
10401	Dicamba	1918-00-9	0.56	J	0.40	1.2		1
10401	Dinoseb	88-85-7	0.96	J	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	2.4		0.80	1.7		1
10401	MCPA	94-74-6	140	J	76	250		1
10401	MCPP (Mecoprop)	93-65-2	89	J	75	250		1
10401	2,4,5-T	93-76-5	0.22		0.082	0.17		1
10401	2,4,5-TP	93-72-1	0.076	J	0.075	0.17		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.12	J	0.066	0.17		1
01363	Alpha BHC	319-84-6	0.11	J	0.034	0.17		1
01363	Beta BHC	319-85-7	0.17		0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.13	J	0.034	0.17		1
01363	Chlordane	57-74-9	0.80	U	0.80	3.4		1
01363	p,p-DDD	72-54-8	0.41		0.066	0.34		1
01363	p,p-DDE	72-55-9	0.45		0.066	0.34		1
01363	p,p-DDT	50-29-3	0.43		0.066	0.34		1
01363	Delta BHC	319-86-8	0.17		0.036	0.17		1
01363	Dieldrin	60-57-1	0.34	J	0.066	0.34		1
01363	Endosulfan I	959-98-8	0.16	J	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.40		0.066	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.40		0.066	0.34		1
01363	Endrin	72-20-8	0.35		0.066	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.30	J	0.066	0.34		1
01363	Endrin Ketone	53494-70-5	0.41		0.066	0.34		1
01363	Heptachlor	76-44-8	0.12	J	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.16	J	0.034	0.17		1
01363	Methoxychlor	72-43-5	2.7		0.34	1.7		1
01363	Mirex	2385-85-5	0.066	U	0.066	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.6		1

Methoxychlor is outside the QC limits for the Laboratory Control Spike at 143%.
Since this sample is used as the reporting limit standard, the data is reported.
The DCB surrogate recovery is outside the client specified QC limits. However the recovery is within our in house statistical limits of 45-150%.

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	2.0		0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1
10225	PCB-1260	11096-82-5	2.2		0.39	1.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-015-SA7-SS-0.0-0.5RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418451
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5201 SDG#: DE252-01RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	1,200		100	500		1
10501	Isopropanol	67-63-0	1,100		100	500		1
10501	Methanol	67-56-1	1,500		100	500		1
	The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.							
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	J	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	0.77	J	0.40	1.2		1
10199	EFH (C21-C30)	n.a.	1.3		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	1.7		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.44	J	0.40	1.2		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112700013A	10/01/2011	08:32	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/16/2011	22:01	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112720029A	10/03/2011	17:46	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	2	112840037A	10/12/2011	12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112720029A	09/30/2011	11:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112700013A	09/29/2011	02:00	Kerrie A Freeburn	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112720046A	09/30/2011	13:50	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-015-SA7-SS-0.0-0.5RL LCS Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418451
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5201 SDG#: DE252-01RLQ

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112740015A	10/05/2011 18:30	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112740008A	10/05/2011 10:52	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112740008A	10/03/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112740015A	10/03/2011 13:30	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112720046A	09/29/2011 22:30	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-139-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA7-SS-0.0-0.5

LLI Sample # SW 6418452
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 14:40

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5202 SDG#: DE252-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170		1
04688	4-Chloroaniline	106-47-8	66	U	66	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	330		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170		1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	66	U	66	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	33	U	33	170		1
04688	4-Methylphenol	106-44-5	33	U	33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	33	U	33	170		1
04688	4-Nitroaniline	100-01-6	66	U	66	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-139-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA7-SS-0.0-0.5

LLI Sample # SW 6418452
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 14:40

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5202 SDG#: DE252-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.33	U	0.33	1.7		1
10138	Anthracene	120-12-7	0.33	U	0.33	1.7		1
10138	Benzo(a)anthracene	56-55-3	1.4	J	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	2.4		0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	14		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	1.6	J	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	2.9		0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	3.0		0.33	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	29		6.0	18		1
10138	Fluoranthene	206-44-0	5.3		0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	3.0		0.67	1.7		1
10138	Pyrene	129-00-0	4.4		0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	13		0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-139-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA7-SS-0.0-0.5

LLI Sample # SW 6418452
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 14:40

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5202 SDG#: DE252-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.61		0.067	0.34		1
01363	p,p-DDT	50-29-3	0.40		0.067	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.10	U	0.10	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.12	U	0.12	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.6	J	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	1.5	J	0.33	1.7		1
10225	PCB-1260	11096-82-5	1.7	J	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1

The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-139-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA7-SS-0.0-0.5

LLI Sample # SW 6418452
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 14:40

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5202 SDG#: DE252-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	0.81	J	0.41	1.2		1
10199	EFH (C21-C30)	n.a.	7.4		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	18		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.41	U	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,300		6.07	20.1		1
07914	Boron	7440-42-8	8.73		0.361	5.02		1
01650	Calcium	7440-70-2	3,270		2.51	20.1		1
01654	Iron	7439-89-6	19,200		2.54	19.5		1
01656	Lithium	7439-93-2	26.4		0.62	2.0		1
01657	Magnesium	7439-95-4	5,370		0.441	10.0		1
06958	Manganese	7439-96-5	308		0.0361	0.502		1
10145	Phosphorus	7723-14-0	408		0.351	10.0		1
01662	Potassium	7440-09-7	3,980		11.3	50.2		1
01667	Sodium	7440-23-5	74.9	J	5.97	100		1
07968	Strontium	7440-24-6	17.0		0.0251	0.502		1
06969	Tin	7440-31-5	3.02	J	0.321	10.0		1
06970	Titanium	7440-32-6	1,300		0.0712	1.00		1
10146	Zirconium	7440-67-7	3.30	J	0.461	5.02		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.130	J	0.0728	0.197		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.42		0.0787	0.393		2
06126	Barium	7440-39-3	100		0.104	0.393		2
06127	Beryllium	7440-41-7	0.671		0.0157	0.0984		2
06128	Cadmium	7440-43-9	0.178		0.0433	0.0984		2
06131	Chromium	7440-47-3	21.7		0.118	0.393		2
06132	Cobalt	7440-48-4	7.24		0.0197	0.0984		2
06133	Copper	7440-50-8	9.98		0.0787	0.393		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-139-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA7-SS-0.0-0.5

LLI Sample # SW 6418452
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 14:40

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5202 SDG#: DE252-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	8.53		0.0100	0.197		2
06138	Molybdenum	7439-98-7	0.595		0.0492	0.0984		2
06139	Nickel	7440-02-0	14.0		0.0984	0.393		2
06141	Selenium	7782-49-2	0.165	J	0.0571	0.393		2
06142	Silver	7440-22-4	0.0304	J	0.0140	0.0984		2
06145	Thallium	7440-28-0	0.338		0.0295	0.0984		2
06148	Vanadium	7440-62-2	45.4		0.0216	0.0984		2
06149	Zinc	7440-66-6	131		0.551	2.95		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0089	J	0.0070	0.0992		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.89		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.2C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 6.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-139-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA7-SS-0.0-0.5

LLI Sample # SW 6418452
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 14:40

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5202 SDG#: DE252-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLB026	10/04/2011 11:16	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274SLF026	10/09/2011 13:00	Chad A Moline	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11274SLF026	10/04/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLB026	10/03/2011 11:00	Olivia Arosemena	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112700013A	10/01/2011 09:01	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112730023A	10/07/2011 00:22	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112720029A	10/03/2011 18:05	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112730023A	10/02/2011 10:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112720029A	09/30/2011 11:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112700013A	09/29/2011 02:00	Kerrie A Freeburn	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112720046A	09/30/2011 08:54	Elizabeth J Marin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112720046A	09/30/2011 18:17	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112730031A	10/01/2011 01:35	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112740015A	10/05/2011 18:58	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112740008A	10/05/2011 11:15	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112740008A	10/03/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112740015A	10/03/2011 13:30	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112720046A	09/29/2011 22:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112730031A	09/30/2011 19:20	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708008	10/04/2011 01:01	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112695708008	10/04/2011 01:01	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112695708008	10/04/2011 01:01	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708002	10/06/2011 20:29	John P Hook	1
01656	Lithium	SW-846 6010B	1	112695708008	10/04/2011 01:01	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112695708008	10/04/2011 01:01	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112695708008	10/04/2011 01:01	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112695708008	10/04/2011 01:01	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112695708008	10/04/2011 01:01	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112695708008	10/04/2011 01:01	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112695708008	10/04/2011 01:01	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112695708008	10/04/2011 01:01	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112695708008	10/04/2011 01:01	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112695708008	10/04/2011 01:01	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112691026003A	09/28/2011 10:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112691026003A	09/28/2011 10:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112691026003D	09/28/2011 10:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112691026003A	09/28/2011 10:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112691026003A	09/28/2011 10:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112691026003A	09/28/2011 10:16	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-139-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA7-SS-0.0-0.5

LLI Sample # SW 6418452
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 14:40

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5202 SDG#: DE252-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06132	Cobalt	SW-846 6020	1	112691026003A	09/28/2011 10:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112691026003A	09/28/2011 10:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112691026003A	09/28/2011 10:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026003C	09/28/2011 10:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112691026003A	09/28/2011 10:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026003B	09/28/2011 10:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112691026003A	09/28/2011 10:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112691026003A	09/28/2011 10:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112691026003A	09/28/2011 10:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112691026003A	09/28/2011 10:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112695711005	09/28/2011 09:40	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708008	09/27/2011 22:28	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708003	10/04/2011 23:07	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708002	10/05/2011 22:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026003	09/27/2011 22:31	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711005	09/28/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621202A	10/01/2011 07:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11273373201A	10/01/2011 13:22	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11278243202A	10/06/2011 18:26	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11278102201A	10/05/2011 20:18	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621202A	09/30/2011 06:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11273373201A	09/30/2011 06:25	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11278102201A	10/05/2011 15:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11280039401A	10/07/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11278243202A	10/05/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403A	09/28/2011 21:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-140-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA7-SS-0.0-0.5

LLI Sample # SW 6418453
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 13:45

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5203 SDG#: DE252-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	330		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170		1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	J	17	330		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	33	U	33	170		1
04688	4-Methylphenol	106-44-5	33	U	33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	33	U	33	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-140-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA7-SS-0.0-0.5

LLI Sample # SW 6418453
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 13:45

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5203 SDG#: DE252-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.81	J	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	1.5	J	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	7.3		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	1.0	J	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	1.6	J	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	1.7	J	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Fluoranthene	206-44-0	2.6		0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	J	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	1.6	J	0.67	1.7		1
10138	Pyrene	129-00-0	2.3		0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	4.8		0.63	1.7		1
10401	Dicamba	1918-00-9	0.68	J	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	130	U	130	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.24		0.076	0.17		1
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-140-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA7-SS-0.0-0.5

LLI Sample # SW 6418453
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 13:45

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5203 SDG#: DE252-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.5		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35		1
01363	p,p-DDE	72-55-9	0.32	J	0.067	0.35		1
01363	p,p-DDT	50-29-3	0.22	U	0.22	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.35		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.35		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	2.0	J	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	2.2		0.34	1.7		1
10225	PCB-1260	11096-82-5	0.82	J	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1

The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-140-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-140-SA7-SS-0.0-0.5

LLI Sample # SW 6418453
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 13:45

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5203 SDG#: DE252-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
holding time for this analysis.								
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	0.93	J	0.41	1.2		1
10199	EFH (C21-C30)	n.a.	5.3		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	32		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.41	U	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,700		6.02	19.9		1
07914	Boron	7440-42-8	9.05		0.358	4.98		1
01650	Calcium	7440-70-2	3,250		2.49	19.9		1
01654	Iron	7439-89-6	20,900		2.62	20.1		1
01656	Lithium	7439-93-2	25.7		0.62	2.0		1
01657	Magnesium	7439-95-4	5,010		0.438	9.95		1
06958	Manganese	7439-96-5	286		0.0358	0.498		1
10145	Phosphorus	7723-14-0	370		0.348	9.95		1
01662	Potassium	7440-09-7	3,710		11.2	49.8		1
01667	Sodium	7440-23-5	66.8	J	5.92	99.5		1
07968	Strontium	7440-24-6	17.2		0.0249	0.498		1
06969	Tin	7440-31-5	2.85	J	0.319	9.95		1
06970	Titanium	7440-32-6	1,300		0.0707	0.995		1
10146	Zirconium	7440-67-7	2.85	J	0.458	4.98		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.197	J	0.0744	0.201		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.38		0.0804	0.402		2
06126	Barium	7440-39-3	109		0.107	0.402		2
06127	Beryllium	7440-41-7	0.671		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.163		0.0442	0.101		2
06131	Chromium	7440-47-3	22.6		0.121	0.402		2
06132	Cobalt	7440-48-4	7.11		0.0201	0.101		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-140-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-140-SA7-SS-0.0-0.5

LLI Sample # SW 6418453
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 13:45

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5203 SDG#: DE252-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06133	Copper	7440-50-8	9.90		0.0804	0.402		2
06135	Lead	7439-92-1	10.3		0.0103	0.201		2
06138	Molybdenum	7439-98-7	0.722		0.0503	0.101		2
06139	Nickel	7440-02-0	13.9		0.101	0.402		2
06141	Selenium	7782-49-2	0.180	J	0.0583	0.402		2
06142	Silver	7440-22-4	0.0373	J	0.0143	0.101		2
06145	Thallium	7440-28-0	0.315		0.0302	0.101		2
06148	Vanadium	7440-62-2	45.6		0.0221	0.101		2
06149	Zinc	7440-66-6	80.3		0.563	3.02		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0297	J	0.0070	0.0995		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80	U	0.80	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.29	J	0.21	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.08		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.5		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.2C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 6.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-140-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA7-SS-0.0-0.5

LLI Sample # SW 6418453
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 13:45

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5203 SDG#: DE252-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLB026	10/04/2011 11:42	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274SLF026	10/09/2011 13:33	Chad A Moline	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11274SLF026	10/04/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLB026	10/03/2011 11:00	Olivia Arosemena	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112700013A	10/01/2011 09:28	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112730023A	10/07/2011 00:50	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112720029A	10/03/2011 18:24	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112730023A	10/02/2011 10:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112720029A	09/30/2011 11:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112700013A	09/29/2011 02:00	Kerrie A Freeburn	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112720046A	09/30/2011 09:10	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112730031A	10/01/2011 01:48	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112740015A	10/05/2011 19:25	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112740008A	10/05/2011 11:39	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112740008A	10/03/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112740015A	10/03/2011 13:30	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112720046A	09/29/2011 22:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112730031A	09/30/2011 19:20	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708008	10/04/2011 01:11	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112695708008	10/04/2011 01:11	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112695708008	10/04/2011 01:11	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708002	10/06/2011 20:33	John P Hook	1
01656	Lithium	SW-846 6010B	1	112695708008	10/04/2011 01:11	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112695708008	10/04/2011 01:11	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112695708008	10/04/2011 01:11	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112695708008	10/04/2011 01:11	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112695708008	10/04/2011 01:11	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112695708008	10/04/2011 01:11	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112695708008	10/04/2011 01:11	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112695708008	10/04/2011 01:11	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112695708008	10/04/2011 01:11	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112695708008	10/04/2011 01:11	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112691026003A	09/28/2011 10:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112691026003A	09/28/2011 10:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112691026003D	09/28/2011 10:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112691026003A	09/28/2011 10:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112691026003A	09/28/2011 10:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112691026003A	09/28/2011 10:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112691026003A	09/28/2011 10:19	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-140-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-140-SA7-SS-0.0-0.5

LLI Sample # SW 6418453
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 13:45

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5203 SDG#: DE252-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	112691026003A	09/28/2011 10:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112691026003A	09/28/2011 10:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026003C	09/28/2011 10:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112691026003A	09/28/2011 10:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026003B	09/28/2011 10:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112691026003A	09/28/2011 10:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112691026003A	09/28/2011 10:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112691026003A	09/28/2011 10:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112691026003A	09/28/2011 10:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112695711005	09/28/2011 09:41	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708008	09/27/2011 22:28	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708003	10/04/2011 23:07	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708002	10/05/2011 22:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026003	09/27/2011 22:31	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711005	09/28/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621202A	10/01/2011 08:00	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11273373201A	10/01/2011 14:08	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11278243202A	10/06/2011 18:40	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11278102201A	10/05/2011 20:19	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621202A	09/30/2011 06:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11273373201A	09/30/2011 06:25	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11278102201A	10/05/2011 15:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11280039401A	10/07/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11278243202A	10/05/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403A	09/28/2011 21:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP05-SA7-QC-092211 Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA7-QC-092211

LLI Sample # SW 6418454
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:10

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5204 SDG#: DE252-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170		1
04688	4-Chloroaniline	106-47-8	66	U	66	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	99	U	99	330		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170		1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	990		1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	17	330		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	66	U	66	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	33	U	33	170		1
04688	4-Methylphenol	106-44-5	33	U	33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	33	U	33	170		1
04688	4-Nitroaniline	100-01-6	66	U	66	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1

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Sample Description: **DUP05-SA7-QC-092211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP05-SA7-QC-092211

LLI Sample # SW 6418454
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:10

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5204 SDG#: DE252-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.33	U	0.33	1.7		1
10138	Anthracene	120-12-7	0.33	U	0.33	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.67	U	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	J	0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	29		6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	0.35	J	0.33	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Fluoranthene	206-44-0	0.67	U	0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	0.67	U	0.67	1.7		1
10138	Pyrene	129-00-0	0.67	U	0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	5.1	U	5.1	5.1		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	650		77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.10	U	0.10	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

The LCS data for MCPA is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: DUP05-SA7-QC-092211 Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA7-QC-092211

LLI Sample # SW 6418454
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:10

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5204 SDG#: DE252-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	extract. Similar results were obtained in both extracts with the exception that MCPA was not detected in the reextract.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.28	U	0.28	0.34		1
01363	p,p-DDE	72-55-9	7.0		0.33	1.7		5
01363	p,p-DDT	50-29-3	0.90		0.067	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.11	U	0.11	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.13	U	0.13	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.075	U	0.075	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.079	U	0.079	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	2.6	J	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	1.6	J	0.33	1.7		1
10225	PCB-1260	11096-82-5	1.7		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	250	J	100	510		1

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Sample Description: **DUP05-SA7-QC-092211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP05-SA7-QC-092211

LLI Sample # SW 6418454
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:10

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5204 SDG#: DE252-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The sample was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C21-C30)	n.a.	3.5		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	11		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.40	U	0.40	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,400		6.00	19.8		1
07914	Boron	7440-42-8	7.36		0.357	4.96		1
01650	Calcium	7440-70-2	2,950		2.48	19.8		1
01654	Iron	7439-89-6	20,300		2.61	20.0		1
01656	Lithium	7439-93-2	25.1		0.61	2.0		1
01657	Magnesium	7439-95-4	5,030		0.436	9.91		1
06958	Manganese	7439-96-5	273		0.0357	0.496		1
10145	Phosphorus	7723-14-0	297		0.347	9.91		1
01662	Potassium	7440-09-7	2,700		11.2	49.6		1
01667	Sodium	7440-23-5	96.1	J	5.90	99.1		1
07968	Strontium	7440-24-6	16.4		0.0248	0.496		1
06969	Tin	7440-31-5	2.99	J	0.317	9.91		1
06970	Titanium	7440-32-6	1,300		0.0704	0.991		1
10146	Zirconium	7440-67-7	3.01	J	0.456	4.96		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.106	J	0.0734	0.198		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.97		0.0793	0.397		2
06126	Barium	7440-39-3	103		0.105	0.397		2
06127	Beryllium	7440-41-7	0.590		0.0159	0.0991		2
06128	Cadmium	7440-43-9	0.191		0.0436	0.0991		2

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Sample Description: DUP05-SA7-QC-092211 Soil
SSFL Area IV Collocated Soil Sampling
DUP05-SA7-QC-092211

LLI Sample # SW 6418454
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:10

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5204 SDG#: DE252-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	19.6	0.119	0.397		2
06132	Cobalt	7440-48-4	6.15	0.0198	0.0991		2
06133	Copper	7440-50-8	8.30	0.0793	0.397		2
06135	Lead	7439-92-1	8.16	0.0101	0.198		2
06138	Molybdenum	7439-98-7	0.529	0.0496	0.0991		2
06139	Nickel	7440-02-0	11.3	0.0991	0.397		2
06141	Selenium	7782-49-2	0.172 J	0.0575	0.397		2
06142	Silver	7440-22-4	0.0407 J	0.0141	0.0991		2
06145	Thallium	7440-28-0	0.281	0.0297	0.0991		2
06148	Vanadium	7440-62-2	38.5	0.0218	0.0991		2
06149	Zinc	7440-66-6	60.2	0.555	2.97		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0144 J	0.0071	0.100		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.0	0.79	0.99		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1 U	9.1	30.3		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 J	0.20	1.0		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18 U	0.18	0.49		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.99	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.1	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.2C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 6.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **DUP05-SA7-QC-092211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP05-SA7-QC-092211

LLI Sample # SW 6418454
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:10

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5204 SDG#: DE252-04FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLB026	10/04/2011 12:07	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274SLF026	10/09/2011 14:05	Chad A Moline	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11274SLF026	10/04/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLB026	10/03/2011 11:00	Olivia Arosemena	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112700013A	10/01/2011 09:56	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112730023A	10/07/2011 01:04	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112730023A	10/07/2011 01:19	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112720029A	10/03/2011 18:43	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112730023A	10/02/2011 10:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112720029A	09/30/2011 11:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112700013A	09/29/2011 02:00	Kerrie A Freeburn	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112720046A	09/30/2011 09:26	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112730031A	10/01/2011 02:01	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112740015A	10/05/2011 19:52	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112740008A	10/05/2011 12:03	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112740008A	10/03/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112740015A	10/03/2011 13:30	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112720046A	09/29/2011 22:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112730031A	09/30/2011 19:20	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708008	10/04/2011 01:15	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112695708008	10/04/2011 01:15	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112695708008	10/04/2011 01:15	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708002	10/06/2011 20:44	John P Hook	1
01656	Lithium	SW-846 6010B	1	112695708008	10/04/2011 01:15	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112695708008	10/04/2011 01:15	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112695708008	10/04/2011 01:15	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112695708008	10/04/2011 01:15	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112695708008	10/04/2011 01:15	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112695708008	10/04/2011 01:15	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112695708008	10/04/2011 01:15	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112695708008	10/04/2011 01:15	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112695708008	10/04/2011 01:15	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112695708008	10/04/2011 01:15	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112691026003A	09/28/2011 10:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112691026003A	09/28/2011 10:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112691026003D	09/28/2011 10:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112691026003A	09/28/2011 10:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112691026003A	09/28/2011 10:29	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP05-SA7-QC-092211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP05-SA7-QC-092211

LLI Sample # SW 6418454
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:10

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5204 SDG#: DE252-04FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112691026003A	09/28/2011 10:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112691026003A	09/28/2011 10:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112691026003A	09/28/2011 10:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112691026003A	09/28/2011 10:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026003C	09/28/2011 10:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112691026003A	09/28/2011 10:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026003B	09/28/2011 10:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112691026003A	09/28/2011 10:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112691026003A	09/28/2011 10:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112691026003A	09/28/2011 10:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112691026003A	09/28/2011 10:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112695711005	09/28/2011 09:43	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708008	09/27/2011 22:28	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708003	10/04/2011 23:07	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708002	10/05/2011 22:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026003	09/27/2011 22:31	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711005	09/28/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621202A	10/01/2011 08:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11273373201A	10/01/2011 14:31	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11278243202A	10/06/2011 19:13	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11278102201A	10/05/2011 20:20	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621202A	09/30/2011 06:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11273373201A	09/30/2011 06:25	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11278102201A	10/05/2011 15:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11280039401A	10/07/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11278243202A	10/05/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403A	09/28/2011 21:38	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-019-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA7-SS-0.0-0.5

LLI Sample # SW 6418455
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 12:08

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5205 SDG#: DE252-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170		1
04688	4-Chloroaniline	106-47-8	66	U	66	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	99	U	99	330		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170		1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	990		1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	66	U	66	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	33	U	33	170		1
04688	4-Methylphenol	106-44-5	33	U	33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	33	U	33	170		1
04688	4-Nitroaniline	100-01-6	66	U	66	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-019-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-019-SA7-SS-0.0-0.5

LLI Sample # SW 6418455
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 12:08

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5205 SDG#: DE252-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.66	U	0.66	1.7		1
10138	Acenaphthylene	208-96-8	0.33	U	0.33	1.7		1
10138	Anthracene	120-12-7	0.33	U	0.33	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.66	U	0.66	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.75	J	0.66	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.1	J	0.66	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.66	U	0.66	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	1.5	J	0.66	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	0.89	J	0.33	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.66	U	0.66	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.9	J	6.0	18		1
10138	Fluoranthene	206-44-0	1.1	J	0.66	1.7		1
10138	Fluorene	86-73-7	0.66	U	0.66	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.66	U	0.66	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.66	U	0.66	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.66	U	0.66	1.7		1
10138	Naphthalene	91-20-3	0.66	U	0.66	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.66	U	0.66	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	0.66	U	0.66	1.7		1
10138	Pyrene	129-00-0	1.1	J	0.66	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.7	U	1.7	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	5.4		0.62	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1
10401	MCPA	94-74-6	520	U	520	520		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.082	U	0.082	0.17		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-019-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA7-SS-0.0-0.5

LLI Sample # SW 6418455
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 12:08

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5205 SDG#: DE252-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.17	U	0.17	0.34		1
01363	p,p-DDT	50-29-3	0.16	U	0.16	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.18	U	0.18	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.4	J	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	2.7		0.33	1.7		1
10225	PCB-1260	11096-82-5	1.0	J	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	440	J	100	510		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-019-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA7-SS-0.0-0.5

LLI Sample # SW 6418455
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 12:08

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5205 SDG#: DE252-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	0.48	J	0.40	1.2		1
10199	EFH (C21-C30)	n.a.	4.0		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	12		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.40	U	0.40	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,100		6.05	20.0		1
07914	Boron	7440-42-8	9.89		0.360	5.00		1
01650	Calcium	7440-70-2	3,120		2.50	20.0		1
01654	Iron	7439-89-6	22,600		2.64	20.2		1
01656	Lithium	7439-93-2	27.8		0.62	2.0		1
01657	Magnesium	7439-95-4	5,170		0.440	10.0		1
06958	Manganese	7439-96-5	342		0.0360	0.500		1
10145	Phosphorus	7723-14-0	392		0.350	10.0		1
01662	Potassium	7440-09-7	4,350		11.3	50.0		1
01667	Sodium	7440-23-5	66.4	J	5.95	100		1
07968	Strontium	7440-24-6	20.2		0.0250	0.500		1
06969	Tin	7440-31-5	2.87	J	0.320	10.0		1
06970	Titanium	7440-32-6	1,380		0.0710	1.00		1
10146	Zirconium	7440-67-7	4.19	J	0.460	5.00		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.159	J	0.0726	0.196		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.57		0.0785	0.392		2
06126	Barium	7440-39-3	140		0.104	0.392		2
06127	Beryllium	7440-41-7	0.768		0.0157	0.0981		2
06128	Cadmium	7440-43-9	0.228		0.0431	0.0981		2
06131	Chromium	7440-47-3	25.9		0.118	0.392		2
06132	Cobalt	7440-48-4	8.78		0.0196	0.0981		2
06133	Copper	7440-50-8	13.6		0.0785	0.392		2
06135	Lead	7439-92-1	13.1		0.0100	0.196		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-019-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA7-SS-0.0-0.5

LLI Sample # SW 6418455
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 12:08

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5205 SDG#: DE252-05

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06138	Molybdenum		7439-98-7	0.798		0.0490	0.0981		2
06139	Nickel		7440-02-0	20.3		0.0981	0.392		2
06141	Selenium		7782-49-2	0.212	J	0.0569	0.392		2
06142	Silver		7440-22-4	0.0543	J	0.0139	0.0981		2
06145	Thallium		7440-28-0	0.365		0.0294	0.0981		2
06148	Vanadium		7440-62-2	56.2		0.0216	0.0981		2
06149	Zinc		7440-66-6	82.6		0.549	2.94		2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0110	J	0.0070	0.0999		1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	0.82	U	0.82	1.0		1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	9.1	U	9.1	30.3		1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.20	U	0.20	0.99		1
		SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B		57-12-5	0.18	U	0.18	0.50		1
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C		n.a.	6.99		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	1.0		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-019-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA7-SS-0.0-0.5

LLI Sample # SW 6418455
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 12:08

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5205 SDG#: DE252-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLB026	10/04/2011 12:32	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274SLF026	10/09/2011 14:38	Chad A Moline	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11274SLF026	10/04/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLB026	10/03/2011 11:00	Olivia Arosemena	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112700013A	10/01/2011 10:23	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112730023A	10/07/2011 01:34	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112720029A	10/03/2011 19:02	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112730023A	10/02/2011 10:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112720029A	09/30/2011 11:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112700013A	09/29/2011 02:00	Kerrie A Freeburn	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112720046A	09/30/2011 09:43	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112730031A	10/01/2011 02:14	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112740015A	10/05/2011 20:47	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112740008A	10/05/2011 12:27	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112740008A	10/03/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112740015A	10/03/2011 13:30	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112720046A	09/29/2011 22:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112730031A	09/30/2011 19:20	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708008	10/04/2011 01:19	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112695708008	10/04/2011 01:19	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112695708008	10/04/2011 01:19	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708002	10/06/2011 20:48	John P Hook	1
01656	Lithium	SW-846 6010B	1	112695708008	10/04/2011 01:19	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112695708008	10/04/2011 01:19	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112695708008	10/04/2011 01:19	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112695708008	10/04/2011 01:19	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112695708008	10/04/2011 01:19	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112695708008	10/04/2011 01:19	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112695708008	10/04/2011 01:19	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112695708008	10/04/2011 01:19	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112695708008	10/04/2011 01:19	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112695708008	10/04/2011 01:19	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112691026003A	09/28/2011 10:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112691026003A	09/28/2011 10:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112691026003D	09/28/2011 10:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112691026003A	09/28/2011 10:32	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112691026003A	09/28/2011 10:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112691026003A	09/28/2011 10:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112691026003A	09/28/2011 10:32	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-019-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-019-SA7-SS-0.0-0.5

LLI Sample # SW 6418455
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 12:08

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5205 SDG#: DE252-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	112691026003A	09/28/2011 10:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112691026003A	09/28/2011 10:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026003C	09/28/2011 10:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112691026003A	09/28/2011 10:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026003B	09/28/2011 10:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112691026003A	09/28/2011 10:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112691026003A	09/28/2011 10:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112691026003A	09/28/2011 10:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112691026003A	09/28/2011 10:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112695711005	09/28/2011 09:46	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708008	09/27/2011 22:28	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708003	10/04/2011 23:07	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708002	10/05/2011 22:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026003	09/27/2011 22:31	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711005	09/28/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621202A	10/01/2011 08:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11273373201A	10/01/2011 14:54	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11278243202A	10/06/2011 19:27	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11278102201A	10/05/2011 20:24	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621202A	09/30/2011 06:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11273373201A	09/30/2011 06:25	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11278102201A	10/05/2011 15:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11280039401A	10/07/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11278243202A	10/05/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403A	09/28/2011 21:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-025-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA7-SS-0.0-0.5

LLI Sample # SW 6418456
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 08:10

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5206 SDG#: DE252-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	330		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170		1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	33	U	33	170		1
04688	4-Methylphenol	106-44-5	33	U	33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	33	U	33	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-025-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA7-SS-0.0-0.5

LLI Sample # SW 6418456
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 08:10

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5206 SDG#: DE252-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.3	U	3.3	8.4		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.4		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.4		5
10138	Benzo(a)anthracene	56-55-3	3.3	U	3.3	8.4		5
10138	Benzo(a)pyrene	50-32-8	4.6	J	3.3	8.4		5
10138	Benzo(b)fluoranthene	205-99-2	17		3.3	8.4		5
10138	Benzo(g,h,i)perylene	191-24-2	3.9	J	3.3	8.4		5
10138	Benzo(k)fluoranthene	207-08-9	11		3.3	8.4		5
10138	Chrysene	218-01-9	8.0	J	1.7	8.4		5
10138	Dibenz(a,h)anthracene	53-70-3	3.3	U	3.3	8.4		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	30	J	30	90		5
10138	Fluoranthene	206-44-0	7.4	J	3.3	8.4		5
10138	Fluorene	86-73-7	3.3	U	3.3	8.4		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.3	U	3.3	8.4		5
10138	1-Methylnaphthalene	90-12-0	3.3	U	3.3	8.4		5
10138	2-Methylnaphthalene	91-57-6	3.3	U	3.3	8.4		5
10138	Naphthalene	91-20-3	3.3	U	3.3	8.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.3	U	3.3	8.4		5
10138	Phenanthrene	85-01-8	3.3	U	3.3	8.4		5
10138	Pyrene	129-00-0	7.0	J	3.3	8.4		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	4.8		0.63	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	1,100		77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	The LCS data for MCPA is outside the QC limits at 138%. Results from the							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-025-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA7-SS-0.0-0.5

LLI Sample # SW 6418456
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 08:10

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5206 SDG#: DE252-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. The MCPA reporting limits were raised for the reextract due to matrix interference and the value would be <240 ug/kg.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	23		4.1	17		5
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35		1
01363	p,p-DDE	72-55-9	5.6		0.34	1.7		5
01363	p,p-DDT	50-29-3	13		0.34	1.7		5
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.38		0.067	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	1.1	U	1.1	1.1		1
01363	Endosulfan Sulfate	1031-07-8	0.25	U	0.25	0.35		1
01363	Endrin	72-20-8	0.35	U	0.35	0.35		1
01363	Endrin Aldehyde	7421-93-4	1.2	U	1.2	1.2		1
01363	Endrin Ketone	53494-70-5	0.23	U	0.23	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.10	U	0.10	0.17		1
01363	Methoxychlor	72-43-5	0.61	U	0.61	1.7		1
01363	Mirex	2385-85-5	2.1	U	2.1	2.1		1
01363	Toxaphene	8001-35-2	21	J	11	34		5
	Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.							
	Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	10	U	10	34		10
10225	Aroclor 5442	12642-23-8	10	U	10	34		10
10225	Aroclor 5460	11126-42-4	290		10	34		10
10225	PCB-1016	12674-11-2	3.4	U	3.4	17		10
10225	PCB-1221	11104-28-2	3.4	U	3.4	17		10
10225	PCB-1232	11141-16-5	3.4	U	3.4	17		10
10225	PCB-1242	53469-21-9	4.2	J	3.4	17		10
10225	PCB-1248	12672-29-6	3.4	U	3.4	17		10
10225	PCB-1254	11097-69-1	220		3.4	17		10
10225	PCB-1260	11096-82-5	4.0	U	4.0	17		10
10225	PCB-1262	37324-23-5	3.4	U	3.4	17		10
10225	PCB-1268	11100-14-4	3.4	U	3.4	17		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,300		6.09	20.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-025-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA7-SS-0.0-0.5

LLI Sample # SW 6418456
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 08:10

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5206 SDG#: DE252-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	8.76		0.362	5.03		1
01650	Calcium	7440-70-2	3,380		2.52	20.1		1
01654	Iron	7439-89-6	19,300		2.63	20.1		1
01656	Lithium	7439-93-2	24.3		0.62	2.0		1
01657	Magnesium	7439-95-4	4,870		0.443	10.1		1
06958	Manganese	7439-96-5	295		0.0362	0.503		1
10145	Phosphorus	7723-14-0	446		0.352	10.1		1
01662	Potassium	7440-09-7	3,730		11.4	50.3		1
01667	Sodium	7440-23-5	85.1	J	5.99	101		1
07968	Strontium	7440-24-6	16.7		0.0252	0.503		1
06969	Tin	7440-31-5	2.91	J	0.322	10.1		1
06970	Titanium	7440-32-6	1,210		0.0714	1.01		1
10146	Zirconium	7440-67-7	3.10	J	0.463	5.03		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0972	J	0.0752	0.203		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.26		0.0813	0.407		2
06126	Barium	7440-39-3	93.2		0.108	0.407		2
06127	Beryllium	7440-41-7	0.550		0.0163	0.102		2
06128	Cadmium	7440-43-9	0.286		0.0447	0.102		2
06131	Chromium	7440-47-3	19.4		0.122	0.407		2
06132	Cobalt	7440-48-4	6.37		0.0203	0.102		2
06133	Copper	7440-50-8	12.0		0.0813	0.407		2
06135	Lead	7439-92-1	24.1		0.0104	0.203		2
06138	Molybdenum	7439-98-7	0.565		0.0508	0.102		2
06139	Nickel	7440-02-0	12.7		0.102	0.407		2
06141	Selenium	7782-49-2	0.138	J	0.0589	0.407		2
06142	Silver	7440-22-4	0.0455	J	0.0144	0.102		2
06145	Thallium	7440-28-0	0.263		0.0305	0.102		2
06148	Vanadium	7440-62-2	37.8		0.0224	0.102		2
06149	Zinc	7440-66-6	102		0.569	3.05		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0224	J	0.0069	0.0976		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.83	U	0.83	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	0.98		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-025-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA7-SS-0.0-0.5

LLI Sample # SW 6418456
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 08:10

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5206 SDG#: DE252-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.32	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.6	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLB026	10/04/2011 12:57	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274SLF026	10/09/2011 15:11	Chad A Moline	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11274SLF026	10/04/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLB026	10/03/2011 11:00	Olivia Arosemena	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112700013A	10/01/2011 10:51	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112730023A	10/07/2011 01:50	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112730023A	10/07/2011 02:05	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112720029A	10/03/2011 19:20	Jessica L Miller	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112730023A	10/02/2011 10:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112720029A	09/30/2011 11:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112700013A	09/29/2011 02:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112695708008	10/04/2011 01:22	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112695708008	10/04/2011 01:22	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112695708008	10/04/2011 01:22	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708002	10/06/2011 20:52	John P Hook	1
01656	Lithium	SW-846 6010B	1	112695708008	10/04/2011 01:22	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112695708008	10/04/2011 01:22	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112695708008	10/04/2011 01:22	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112695708008	10/04/2011 01:22	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112695708008	10/04/2011 01:22	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112695708008	10/04/2011 01:22	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-025-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA7-SS-0.0-0.5

LLI Sample # SW 6418456
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 08:10

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5206 SDG#: DE252-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112695708008	10/04/2011 01:22	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112695708008	10/04/2011 01:22	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112695708008	10/04/2011 01:22	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112695708008	10/04/2011 01:22	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112691026003A	09/28/2011 10:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112691026003A	09/28/2011 10:35	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112691026003D	09/28/2011 10:35	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112691026003A	09/28/2011 10:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112691026003A	09/28/2011 10:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112691026003A	09/28/2011 10:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112691026003A	09/28/2011 10:35	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112691026003A	09/28/2011 10:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112691026003A	09/28/2011 10:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026003C	09/28/2011 10:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112691026003A	09/28/2011 10:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026003B	09/28/2011 10:35	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112691026003A	09/28/2011 10:35	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112691026003A	09/28/2011 10:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112691026003A	09/28/2011 10:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112691026003A	09/28/2011 10:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112695711005	09/28/2011 09:47	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708008	09/27/2011 22:28	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708003	10/04/2011 23:07	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708002	10/05/2011 22:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026003	09/27/2011 22:31	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711005	09/28/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621202A	10/01/2011 08:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11273373201A	10/01/2011 15:17	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11278243202A	10/06/2011 19:33	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621202A	09/30/2011 06:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11273373201A	09/30/2011 06:25	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11280039401A	10/07/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11278243202A	10/05/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403A	09/28/2011 21:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-027-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA7-SS-0.0-0.5

LLI Sample # SW 6418457
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 07:45

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5207 SDG#: DE252-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170		1
04688	4-Chloroaniline	106-47-8	66	U	66	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	99	U	99	330		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170		1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	990		1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	66	U	66	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	33	U	33	170		1
04688	4-Methylphenol	106-44-5	33	U	33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	33	U	33	170		1
04688	4-Nitroaniline	100-01-6	66	U	66	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1

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Sample Description: **SL-027-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA7-SS-0.0-0.5

LLI Sample # SW 6418457
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 07:45

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5207 SDG#: DE252-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.33	U	0.33	1.7		1
10138	Anthracene	120-12-7	0.33	U	0.33	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.97	J	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	27		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	J	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.3	J	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	1.4	J	0.33	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	270		6.0	18		1
10138	Fluoranthene	206-44-0	2.1		0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	9.2	J	6.0	18		1
10138	Phenanthrene	85-01-8	1.2	J	0.67	1.7		1
10138	Pyrene	129-00-0	1.9		0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	3.5	U	3.5	3.5		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1
10401	MCPA	94-74-6	150	U	150	250		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.082	U	0.082	0.17		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Sample Description: SL-027-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA7-SS-0.0-0.5

LLI Sample # SW 6418457
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 07:45

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5207 SDG#: DE252-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	1.2	J	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.71		0.067	0.34		1
01363	p,p-DDT	50-29-3	1.7		0.067	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.085	U	0.085	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.22	U	0.22	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.12	U	0.12	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.27	U	0.27	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.063	U	0.063	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.22	U	0.22	0.34		1
01363	Toxaphene	8001-35-2	7.1	U	7.1	7.1		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	39		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	7.0		0.33	1.7		1
10225	PCB-1260	11096-82-5	18		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,900		5.98	19.8		1
07914	Boron	7440-42-8	8.77		0.356	4.94		1
01650	Calcium	7440-70-2	2,720		2.47	19.8		1
01654	Iron	7439-89-6	18,700		2.53	19.4		1
01656	Lithium	7439-93-2	26.5		0.61	2.0		1

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Sample Description: **SL-027-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA7-SS-0.0-0.5

LLI Sample # SW 6418457
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 07:45

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5207 SDG#: DE252-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	4,350		0.435	9.88		1
06958	Manganese	7439-96-5	291		0.0356	0.494		1
10145	Phosphorus	7723-14-0	445		0.346	9.88		1
01662	Potassium	7440-09-7	3,860		11.2	49.4		1
01667	Sodium	7440-23-5	74.2	J	5.88	98.8		1
07968	Strontium	7440-24-6	15.7		0.0247	0.494		1
06969	Tin	7440-31-5	3.07	J	0.316	9.88		1
06970	Titanium	7440-32-6	1,260		0.0701	0.988		1
10146	Zirconium	7440-67-7	4.97		0.454	4.94		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.142	J	0.0738	0.200		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.79		0.0798	0.399		2
06126	Barium	7440-39-3	126		0.106	0.399		2
06127	Beryllium	7440-41-7	0.628		0.0160	0.0998		2
06128	Cadmium	7440-43-9	0.246		0.0439	0.0998		2
06131	Chromium	7440-47-3	18.9		0.120	0.399		2
06132	Cobalt	7440-48-4	6.60		0.0200	0.0998		2
06133	Copper	7440-50-8	10.3		0.0798	0.399		2
06135	Lead	7439-92-1	19.0		0.0102	0.200		2
06138	Molybdenum	7439-98-7	0.911		0.0499	0.0998		2
06139	Nickel	7440-02-0	12.8		0.0998	0.399		2
06141	Selenium	7782-49-2	0.138	J	0.0579	0.399		2
06142	Silver	7440-22-4	0.0562	J	0.0142	0.0998		2
06145	Thallium	7440-28-0	0.299		0.0299	0.0998		2
06148	Vanadium	7440-62-2	38.6		0.0220	0.0998		2
06149	Zinc	7440-66-6	85.5		0.559	2.99		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0130	J	0.0070	0.0991		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7		0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.35	J	0.20	0.98		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.28		0.0100	0.0100		1

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Sample Description: **SL-027-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA7-SS-0.0-0.5

LLI Sample # SW 6418457
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 07:45

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E5207 SDG#: DE252-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	0.77	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLB026	10/04/2011	13:22	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274SLF026	10/09/2011	15:44	Chad A Moline	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11274SLF026	10/04/2011	07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLB026	10/03/2011	11:00	Olivia Arosemena	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112700013A	10/01/2011	12:13	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112730023A	10/07/2011	02:20	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112720029A	10/03/2011	19:39	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112730023A	10/02/2011	10:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112720029A	09/30/2011	11:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112700013A	09/29/2011	02:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112695708008	10/04/2011	01:26	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112695708008	10/04/2011	01:26	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112695708008	10/04/2011	01:26	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708002	10/06/2011	20:56	John P Hook	1
01656	Lithium	SW-846 6010B	1	112695708008	10/04/2011	01:26	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112695708008	10/04/2011	01:26	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112695708008	10/04/2011	01:26	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112695708008	10/04/2011	01:26	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112695708008	10/04/2011	01:26	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112695708008	10/04/2011	01:26	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112695708008	10/04/2011	01:26	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112695708008	10/04/2011	01:26	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112695708008	10/04/2011	01:26	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112695708008	10/04/2011	01:26	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112691026003A	09/28/2011	10:38	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112691026003A	09/28/2011	10:38	Choon Y Tian	2

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Sample Description: SL-027-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-027-SA7-SS-0.0-0.5

LLI Sample # SW 6418457
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 07:45

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5207 SDG#: DE252-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112691026003D	09/28/2011 10:38	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112691026003A	09/28/2011 10:38	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112691026003A	09/28/2011 10:38	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112691026003A	09/28/2011 10:38	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112691026003A	09/28/2011 10:38	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112691026003A	09/28/2011 10:38	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112691026003A	09/28/2011 10:38	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026003C	09/28/2011 10:38	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112691026003A	09/28/2011 10:38	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026003B	09/28/2011 10:38	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112691026003A	09/28/2011 10:38	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112691026003A	09/28/2011 10:38	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112691026003A	09/28/2011 10:38	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112691026003A	09/28/2011 10:38	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112695711005	09/28/2011 09:48	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708008	09/27/2011 22:28	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708003	10/04/2011 23:07	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708002	10/05/2011 22:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026003	09/27/2011 22:31	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711005	09/28/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621202A	10/01/2011 09:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11273373201A	10/01/2011 15:40	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11278243202A	10/06/2011 19:47	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621202A	09/30/2011 06:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11273373201A	09/30/2011 06:25	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11280039401A	10/07/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11278243202A	10/05/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403A	09/28/2011 21:38	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-062-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA7-SS-0.0-0.5

LLI Sample # SW 6418458
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 08:35

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5208 SDG#: DE252-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	170	U	170	341		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1

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SSFL Area IV Collocated Soil Sampling
SL-062-SA7-SS-0.0-0.5

LLI Sample # SW 6418458
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 08:35

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5208 SDG#: DE252-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.4	U	3.4	8.5		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.5		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.5		5
10138	Benzo(a)anthracene	56-55-3	3.4	U	3.4	8.5		5
10138	Benzo(a)pyrene	50-32-8	3.4	U	3.4	8.5		5
10138	Benzo(b)fluoranthene	205-99-2	17		3.4	8.5		5
10138	Benzo(g,h,i)perylene	191-24-2	3.4	U	3.4	8.5		5
10138	Benzo(k)fluoranthene	207-08-9	6.4	J	3.4	8.5		5
10138	Chrysene	218-01-9	4.7	J	1.7	8.5		5
10138	Dibenz(a,h)anthracene	53-70-3	3.4	U	3.4	8.5		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	47	J	31	92		5
10138	Fluoranthene	206-44-0	5.6	J	3.4	8.5		5
10138	Fluorene	86-73-7	3.4	U	3.4	8.5		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.4	U	3.4	8.5		5
10138	1-Methylnaphthalene	90-12-0	3.4	U	3.4	8.5		5
10138	2-Methylnaphthalene	91-57-6	3.4	U	3.4	8.5		5
10138	Naphthalene	91-20-3	4.3	J	3.4	8.5		5
10138	N-Nitrosodimethylamine	62-75-9	3.4	U	3.4	8.5		5
10138	Phenanthrene	85-01-8	4.3	J	3.4	8.5		5
10138	Pyrene	129-00-0	5.3	J	3.4	8.5		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-062-SA7-SS-0.0-0.5

LLI Sample # SW 6418458
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 08:35

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5208 SDG#: DE252-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,500	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	4.7		0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	78	U	78	260		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	0.48		0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17		1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	1,200	U	1,200	3,100		1
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.13	U	0.13	0.34		2
01363	Alpha BHC	319-84-6	0.14	J	0.070	0.34		2
01363	Beta BHC	319-85-7	0.12	U	0.12	0.34		2

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E5208 SDG#: DE252-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Gamma BHC - Lindane	58-89-9	0.18	U	0.18	0.34		2
01363	Chlordane	57-74-9	3.1	J	1.6	7.0		2
01363	p,p-DDD	72-54-8	0.13	U	0.13	0.70		2
01363	p,p-DDE	72-55-9	3.1		0.13	0.70		2
01363	p,p-DDT	50-29-3	6.8		0.67	3.5		10
01363	Delta BHC	319-86-8	0.074	U	0.074	0.34		2
01363	Dieldrin	60-57-1	0.19	U	0.19	0.70		2
01363	Endosulfan I	959-98-8	0.090	U	0.090	0.34		2
01363	Endosulfan II	33213-65-9	0.19	U	0.19	0.70		2
01363	Endosulfan Sulfate	1031-07-8	0.13	U	0.13	0.70		2
01363	Endrin	72-20-8	0.13	U	0.13	0.70		2
01363	Endrin Aldehyde	7421-93-4	0.57	U	0.57	0.70		2
01363	Endrin Ketone	53494-70-5	0.13	U	0.13	0.70		2
01363	Heptachlor	76-44-8	0.12	U	0.12	0.34		2
01363	Heptachlor Epoxide	1024-57-3	0.22	U	0.22	0.34		2
01363	Methoxychlor	72-43-5	0.70	U	0.70	3.4		2
01363	Mirex	2385-85-5	0.45	U	0.45	0.70		2
01363	Toxaphene	8001-35-2	15	U	15	15		2

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	5.1	U	5.1	17		5
10225	Aroclor 5442	12642-23-8	5.1	U	5.1	17		5
10225	Aroclor 5460	11126-42-4	67		5.1	17		5
10225	PCB-1016	12674-11-2	1.7	U	1.7	8.7		5
10225	PCB-1221	11104-28-2	1.7	U	1.7	8.7		5
10225	PCB-1232	11141-16-5	1.7	U	1.7	8.7		5
10225	PCB-1242	53469-21-9	1.7	U	1.7	8.7		5
10225	PCB-1248	12672-29-6	1.7	U	1.7	8.7		5
10225	PCB-1254	11097-69-1	10		1.7	8.7		5
10225	PCB-1260	11096-82-5	13		2.0	8.7		5
10225	PCB-1262	37324-23-5	1.7	U	1.7	8.7		5
10225	PCB-1268	11100-14-4	1.7	U	1.7	8.7		5
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1

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E5208 SDG#: DE252-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.82	U	0.82	2.5		2
10199	EFH (C15-C20)	n.a.	6.5		0.82	2.5		2
10199	EFH (C21-C30)	n.a.	32		0.82	2.5		2
10199	EFH (C30 - C40)	n.a.	71		0.82	2.5		2
10199	EFH (C8-C11)	n.a.	0.82	U	0.82	2.5		2
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,000		6.06	20.0		1
07914	Boron	7440-42-8	10.9		0.361	5.01		1
01650	Calcium	7440-70-2	4,790		2.51	20.0		1
01654	Iron	7439-89-6	19,500		2.59	19.9		1
01656	Lithium	7439-93-2	21.1		0.62	2.0		1
01657	Magnesium	7439-95-4	4,350		0.441	10.0		1
06958	Manganese	7439-96-5	261		0.0361	0.501		1
10145	Phosphorus	7723-14-0	503		0.351	10.0		1
01662	Potassium	7440-09-7	3,530		11.3	50.1		1
01667	Sodium	7440-23-5	69.3	J	5.96	100		1
07968	Strontium	7440-24-6	20.1		0.0251	0.501		1
06969	Tin	7440-31-5	3.10	J	0.321	10.0		1
06970	Titanium	7440-32-6	1,120		0.0712	1.00		1
10146	Zirconium	7440-67-7	2.49	J	0.461	5.01		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.314		0.0749	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.56		0.0810	0.405		2
06126	Barium	7440-39-3	101		0.107	0.405		2
06127	Beryllium	7440-41-7	0.484		0.0162	0.101		2
06128	Cadmium	7440-43-9	0.388		0.0445	0.101		2
06131	Chromium	7440-47-3	19.6		0.121	0.405		2
06132	Cobalt	7440-48-4	7.96		0.0202	0.101		2
06133	Copper	7440-50-8	21.1		0.0810	0.405		2
06135	Lead	7439-92-1	19.6		0.0103	0.202		2
06138	Molybdenum	7439-98-7	0.984		0.0506	0.101		2
06139	Nickel	7440-02-0	15.6		0.101	0.405		2
06141	Selenium	7782-49-2	0.112	J	0.0587	0.405		2
06142	Silver	7440-22-4	0.0674	J	0.0144	0.101		2
06145	Thallium	7440-28-0	0.256		0.0304	0.101		2
06148	Vanadium	7440-62-2	40.1		0.0223	0.101		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-062-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-062-SA7-SS-0.0-0.5

LLI Sample # SW 6418458
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 08:35

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5208 SDG#: DE252-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06149	Zinc	7440-66-6	109		0.567	3.04		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0268	J	0.0070	0.100		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.83	U	0.83	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0		0.83	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.73		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.2		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11274SLE026	10/06/2011 16:32	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLB026	10/04/2011 13:48	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274SLF026	10/09/2011 16:16	Chad A Moline	5
11630	NDMA Soil Microwave	SW-846 3546	1	11274SLE026	10/03/2011 09:45	Kerrie A Freeburn	1

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Sample Description: SL-062-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA7-SS-0.0-0.5

LLI Sample # SW 6418458
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 08:35

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5208 SDG#: DE252-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11274SLF026	10/04/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLB026	10/03/2011 11:00	Olivia Arosemena	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112690017A	10/05/2011 09:11	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670064A	09/29/2011 19:57	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112700013A	10/01/2011 12:41	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112730023A	10/07/2011 02:35	Melissa McDermott	2
01363	12a Pesticides by 8081A	SW-846 8081A	1	112730023A	10/10/2011 21:05	Melissa McDermott	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112720029A	10/03/2011 19:58	Jessica L Miller	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112730023A	10/02/2011 10:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112720029A	09/30/2011 11:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112700013A	09/29/2011 02:00	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670064A	09/28/2011 12:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	112690017A	09/29/2011 14:30	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112720046A	09/30/2011 19:07	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112730031A	10/01/2011 02:27	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112740015A	10/06/2011 02:14	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112740008A	10/06/2011 01:17	Heather E Williams	2
11238	EFH Extraction - Soils	SW-846 3550B	1	112740008A	10/03/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112740015A	10/03/2011 13:30	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112720046A	09/29/2011 22:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112730031A	09/30/2011 19:20	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708008	10/04/2011 01:30	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112695708008	10/04/2011 01:30	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112695708008	10/04/2011 01:30	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708002	10/06/2011 21:00	John P Hook	1
01656	Lithium	SW-846 6010B	1	112695708008	10/04/2011 01:30	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112695708008	10/04/2011 01:30	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112695708008	10/04/2011 01:30	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112695708008	10/04/2011 01:30	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112695708008	10/04/2011 01:30	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112695708008	10/04/2011 01:30	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112695708008	10/04/2011 01:30	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112695708008	10/04/2011 01:30	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112695708008	10/04/2011 01:30	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112695708008	10/04/2011 01:30	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112691026003A	09/28/2011 10:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112691026003A	09/28/2011 10:41	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112691026003D	09/28/2011 10:41	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112691026003A	09/28/2011 10:41	Choon Y Tian	2

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Sample Description: **SL-062-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-062-SA7-SS-0.0-0.5

LLI Sample # SW 6418458
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 08:35

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5208 SDG#: DE252-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112691026003A	09/28/2011 10:41	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112691026003A	09/28/2011 10:41	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112691026003A	09/28/2011 10:41	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112691026003A	09/28/2011 10:41	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112691026003A	09/28/2011 10:41	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026003C	09/28/2011 10:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112691026003A	09/28/2011 10:41	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026003B	09/28/2011 10:41	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112691026003A	09/28/2011 10:41	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112691026003A	09/28/2011 10:41	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112691026003A	09/28/2011 10:41	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112691026003A	09/28/2011 10:41	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112695711005	09/28/2011 09:49	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708008	09/27/2011 22:28	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708003	10/04/2011 23:07	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708002	10/05/2011 22:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026003	09/27/2011 22:31	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711005	09/28/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621202A	10/01/2011 09:16	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11273621202A	10/01/2011 09:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11273373201A	10/01/2011 16:03	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11278243202A	10/06/2011 20:00	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11278102201A	10/05/2011 20:25	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621202A	09/30/2011 06:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11273373201A	09/30/2011 06:25	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11278102201A	10/05/2011 15:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11280039401A	10/07/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11278243202A	10/05/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11284162402A	10/11/2011 18:16	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-066-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA7-SS-0.0-0.5

LLI Sample # SW 6418459
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:12

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5209 SDG#: DE252-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170		1
04688	4-Chloroaniline	106-47-8	66	U	66	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	99	U	99	330		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170		1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	990		1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	U	17	330		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	66	U	66	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	33	U	33	170		1
04688	4-Methylphenol	106-44-5	33	U	33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	33	U	33	170		1
04688	4-Nitroaniline	100-01-6	66	U	66	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-066-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA7-SS-0.0-0.5

LLI Sample # SW 6418459
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:12

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5209 SDG#: DE252-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.3	U	3.3	8.3		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.3		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.3		5
10138	Benzo(a)anthracene	56-55-3	3.3	U	3.3	8.3		5
10138	Benzo(a)pyrene	50-32-8	3.3	U	3.3	8.3		5
10138	Benzo(b)fluoranthene	205-99-2	3.3	U	3.3	8.3		5
10138	Benzo(g,h,i)perylene	191-24-2	3.3	U	3.3	8.3		5
10138	Benzo(k)fluoranthene	207-08-9	3.3	U	3.3	8.3		5
10138	Chrysene	218-01-9	2.7	J	1.7	8.3		5
10138	Dibenz(a,h)anthracene	53-70-3	3.3	U	3.3	8.3		5
10138	Fluoranthene	206-44-0	3.3	U	3.3	8.3		5
10138	Fluorene	86-73-7	3.3	U	3.3	8.3		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.3	U	3.3	8.3		5
10138	1-Methylnaphthalene	90-12-0	3.3	U	3.3	8.3		5
10138	2-Methylnaphthalene	91-57-6	3.3	U	3.3	8.3		5
10138	Naphthalene	91-20-3	3.3	U	3.3	8.3		5
10138	N-Nitrosodimethylamine	62-75-9	3.3	U	3.3	8.3		5
10138	Phenanthrene	85-01-8	3.3	U	3.3	8.3		5
10138	Pyrene	129-00-0	3.3	U	3.3	8.3		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	4.7		1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	7.8	U	7.8	7.8		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	Reporting limits were raised due to interference from the sample matrix.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-066-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA7-SS-0.0-0.5

LLI Sample # SW 6418459
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:12

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5209 SDG#: DE252-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	2.1	J	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.18	U	0.18	0.34		1
01363	p,p-DDE	72-55-9	0.64		0.067	0.34		1
01363	p,p-DDT	50-29-3	0.41	U	0.41	0.41		1
01363	Delta BHC	319-86-8	0.096	J	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.12	U	0.12	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.040	U	0.040	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	2.6	J	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.90	J	0.33	1.7		1
10225	PCB-1260	11096-82-5	3.2		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1

The DCB surrogate data is outside the QC limits at 123%; however it is within our in house statistical limits of 53-142.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	150	J	100	510		1

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Sample Description: **SL-066-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA7-SS-0.0-0.5

LLI Sample # SW 6418459
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:12

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5209 SDG#: DE252-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	1.3		0.40	1.2		1
10199	EFH (C21-C30)	n.a.	14		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	15		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.51	J	0.40	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,100		5.99	19.8		1
07914	Boron	7440-42-8	8.54		0.357	4.95		1
01650	Calcium	7440-70-2	3,480		2.48	19.8		1
01654	Iron	7439-89-6	20,600		2.53	19.4		1
01656	Lithium	7439-93-2	21.7		0.61	2.0		1
01657	Magnesium	7439-95-4	5,240		0.436	9.90		1
06958	Manganese	7439-96-5	322		0.0357	0.495		1
10145	Phosphorus	7723-14-0	382		0.347	9.90		1
01662	Potassium	7440-09-7	3,890		11.2	49.5		1
01667	Sodium	7440-23-5	69.4	J	5.89	99.0		1
07968	Strontium	7440-24-6	17.3		0.0248	0.495		1
06969	Tin	7440-31-5	2.88	J	0.317	9.90		1
06970	Titanium	7440-32-6	1,300		0.0703	0.990		1
10146	Zirconium	7440-67-7	3.07	J	0.456	4.95		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.188	J	0.0747	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.53		0.0808	0.404		2
06126	Barium	7440-39-3	120		0.107	0.404		2
06127	Beryllium	7440-41-7	0.651		0.0162	0.101		2
06128	Cadmium	7440-43-9	0.234		0.0444	0.101		2
06131	Chromium	7440-47-3	25.8		0.121	0.404		2
06132	Cobalt	7440-48-4	8.15		0.0202	0.101		2
06133	Copper	7440-50-8	12.6		0.0808	0.404		2

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Sample Description: **SL-066-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA7-SS-0.0-0.5

LLI Sample # SW 6418459
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:12

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5209 SDG#: DE252-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	19.0		0.0103	0.202		2
06138	Molybdenum	7439-98-7	0.741		0.0505	0.101		2
06139	Nickel	7440-02-0	17.1		0.101	0.404		2
06141	Selenium	7782-49-2	0.220	J	0.0586	0.404		2
06142	Silver	7440-22-4	0.0505	J	0.0143	0.101		2
06145	Thallium	7440-28-0	0.323		0.0303	0.101		2
06148	Vanadium	7440-62-2	52.8		0.0222	0.101		2
06149	Zinc	7440-66-6	81.3		0.566	3.03		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0124	J	0.0069	0.0976		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80	U	0.80	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.17	U	0.17	0.48		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.74		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.0		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) for the Brass Sleeve upon receipt at the lab was 8.2C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 6.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-066-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA7-SS-0.0-0.5

LLI Sample # SW 6418459
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:12

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5209 SDG#: DE252-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLB026	10/04/2011 14:13	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274SLF026	10/09/2011 16:49	Chad A Moline	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11274SLF026	10/04/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLB026	10/03/2011 11:00	Olivia Arosemena	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112700013A	10/01/2011 13:08	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112730023A	10/07/2011 02:49	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112720029A	10/03/2011 20:16	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112730023A	10/02/2011 10:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112720029A	09/30/2011 11:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112700013A	09/29/2011 02:00	Kerrie A Freeburn	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112720046A	09/30/2011 10:16	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112730031A	10/01/2011 02:40	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112740015A	10/05/2011 21:14	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112790036A	10/08/2011 20:30	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	112790036A	10/07/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112740015A	10/03/2011 13:30	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112720046A	09/29/2011 22:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112730031A	09/30/2011 19:20	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708008	10/04/2011 01:33	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112695708008	10/04/2011 01:33	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112695708008	10/04/2011 01:33	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708002	10/06/2011 21:04	John P Hook	1
01656	Lithium	SW-846 6010B	1	112695708008	10/04/2011 01:33	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112695708008	10/04/2011 01:33	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112695708008	10/04/2011 01:33	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112695708008	10/04/2011 01:33	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112695708008	10/04/2011 01:33	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112695708008	10/04/2011 01:33	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112695708008	10/04/2011 01:33	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112695708008	10/04/2011 01:33	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112695708008	10/04/2011 01:33	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112695708008	10/04/2011 01:33	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112691026003A	09/28/2011 10:44	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112691026003A	09/28/2011 10:44	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112691026003D	09/28/2011 10:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112691026003A	09/28/2011 10:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112691026003A	09/28/2011 10:44	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112691026003A	09/28/2011 10:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112691026003A	09/28/2011 10:44	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-066-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA7-SS-0.0-0.5

LLI Sample # SW 6418459
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:12

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5209 SDG#: DE252-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	112691026003A	09/28/2011 10:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112691026003A	09/28/2011 10:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026003C	09/28/2011 10:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112691026003A	09/28/2011 10:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026003B	09/28/2011 10:44	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112691026003A	09/28/2011 10:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112691026003A	09/28/2011 10:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112691026003A	09/28/2011 10:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112691026003A	09/28/2011 10:44	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112695711005	09/28/2011 09:51	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708008	09/27/2011 22:28	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708003	10/04/2011 23:07	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708002	10/05/2011 22:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026003	09/27/2011 22:31	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711005	09/28/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621202A	10/01/2011 10:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11285285202A	10/13/2011 12:57	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11278243202A	10/06/2011 20:14	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11278102201A	10/05/2011 20:26	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621202A	09/30/2011 06:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	2	11285285202A	10/12/2011 18:30	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11278102201A	10/05/2011 15:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11280039401A	10/07/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11278243202A	10/05/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403B	09/28/2011 21:38	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-067-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA7-SS-0.0-0.5

LLI Sample # SW 6418460
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:59

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5210 SDG#: DE252-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	70	U	70	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	70	U	70	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1

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Sample Description: **SL-067-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-067-SA7-SS-0.0-0.5

LLI Sample # SW 6418460
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:59

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5210 SDG#: DE252-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	3.1		0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.2	J	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	7.0	J	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.92	J	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.98	J	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	1.0	J	0.71	1.8		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8		1
10401	Dalapon	75-99-0	4.7	U	4.7	9.5		1
10401	2,4-DB	94-82-6	15	U	15	15		1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3		1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8		1
10401	MCPA	94-74-6	300	U	300	300		1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270		1
10401	2,4,5-T	93-76-5	0.23		0.087	0.18		1
10401	2,4,5-TP	93-72-1	0.22	U	0.22	0.22		1
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-067-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA7-SS-0.0-0.5

LLI Sample # SW 6418460
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:59

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5210 SDG#: DE252-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18		1
01363	Alpha BHC	319-84-6	1.2		0.036	0.18		1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18		1
01363	Chlordane	57-74-9	3.0	J	0.85	3.6		1
01363	p,p-DDD	72-54-8	0.37	U	0.37	0.37		1
01363	p,p-DDE	72-55-9	1.9		0.070	0.36		1
01363	p,p-DDT	50-29-3	1.0		0.070	0.36		1
01363	Delta BHC	319-86-8	0.088	U	0.088	0.18		1
01363	Dieldrin	60-57-1	0.070	U	0.070	0.36		1
01363	Endosulfan I	959-98-8	0.16	U	0.16	0.18		1
01363	Endosulfan II	33213-65-9	0.37	U	0.37	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36		1
01363	Endrin	72-20-8	0.098	U	0.098	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.43	U	0.43	0.43		1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36		1
01363	Heptachlor	76-44-8	0.14	J	0.064	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.079	U	0.079	0.18		1
01363	Methoxychlor	72-43-5	1.6	U	1.6	1.8		1
01363	Mirex	2385-85-5	0.078	U	0.078	0.36		1
01363	Toxaphene	8001-35-2	17		2.3	7.0		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	3.1	J	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	2.8		0.35	1.8		1
10225	PCB-1260	11096-82-5	1.9		0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	210	U	210	1,100		1
10501	Isopropanol	67-63-0	210	U	210	1,100		1
10501	Methanol	67-56-1	380	J	210	1,100		1

Reporting limits were raised due to interference from the sample matrix.

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-067-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-067-SA7-SS-0.0-0.5

LLI Sample # SW 6418460
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:59

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5210 SDG#: DE252-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	11	U	11	32		25
10199	EFH (C15-C20)	n.a.	16	J	11	32		25
10199	EFH (C21-C30)	n.a.	110		11	32		25
10199	EFH (C30 - C40)	n.a.	380		11	32		25
10199	EFH (C8-C11)	n.a.	11	U	11	32		25
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,300		6.44	21.3		1
07914	Boron	7440-42-8	12.6		0.383	5.32		1
01650	Calcium	7440-70-2	7,700		2.66	21.3		1
01654	Iron	7439-89-6	21,100		2.70	20.7		1
01656	Lithium	7439-93-2	22.5		0.66	2.1		1
01657	Magnesium	7439-95-4	5,590		0.468	10.6		1
06958	Manganese	7439-96-5	328		0.0383	0.532		1
10145	Phosphorus	7723-14-0	571		0.372	10.6		1
01662	Potassium	7440-09-7	4,010		12.0	53.2		1
01667	Sodium	7440-23-5	136		6.33	106		1
07968	Strontium	7440-24-6	38.7		0.0266	0.532		1
06969	Tin	7440-31-5	3.11	J	0.340	10.6		1
06970	Titanium	7440-32-6	1,270		0.0755	1.06		1
10146	Zirconium	7440-67-7	3.17	J	0.489	5.32		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.211	J	0.0787	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.77		0.0851	0.426		2
06126	Barium	7440-39-3	123		0.113	0.426		2
06127	Beryllium	7440-41-7	0.493		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.288		0.0468	0.106		2
06131	Chromium	7440-47-3	20.2		0.128	0.426		2
06132	Cobalt	7440-48-4	6.60		0.0213	0.106		2
06133	Copper	7440-50-8	13.8		0.0851	0.426		2

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Sample Description: SL-067-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA7-SS-0.0-0.5

LLI Sample # SW 6418460
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:59

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5210 SDG#: DE252-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	18.7		0.0109	0.213		2
06138	Molybdenum	7439-98-7	0.689		0.0532	0.106		2
06139	Nickel	7440-02-0	15.1		0.106	0.426		2
06141	Selenium	7782-49-2	0.150	J	0.0617	0.426		2
06142	Silver	7440-22-4	0.0546	J	0.0151	0.106		2
06145	Thallium	7440-28-0	0.263		0.0319	0.106		2
06148	Vanadium	7440-62-2	40.4		0.0234	0.106		2
06149	Zinc	7440-66-6	88.2		0.596	3.19		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0159	J	0.0073	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.85	U	0.85	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	31.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.59		0.19	0.53		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.98		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.0		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-067-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA7-SS-0.0-0.5

LLI Sample # SW 6418460
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:59

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5210 SDG#: DE252-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLB026	10/04/2011 14:38	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274SLF026	10/09/2011 17:22	Chad A Moline	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11274SLF026	10/04/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLB026	10/03/2011 11:00	Olivia Arosemena	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112700013A	10/01/2011 13:36	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112730023A	10/07/2011 04:18	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112720029A	10/03/2011 20:35	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112730023A	10/02/2011 10:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112720029A	09/30/2011 11:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112700013A	09/29/2011 02:00	Kerrie A Freeburn	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112720046A	09/30/2011 10:32	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112730031A	10/01/2011 02:52	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112740015A	10/05/2011 21:41	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112740008A	10/06/2011 02:29	Heather E Williams	25
11238	EFH Extraction - Soils	SW-846 3550B	1	112740008A	10/03/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112740015A	10/03/2011 13:30	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112720046A	09/29/2011 22:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112730031A	09/30/2011 19:20	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708008	10/04/2011 01:37	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112695708008	10/04/2011 01:37	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112695708008	10/04/2011 01:37	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708002	10/06/2011 21:08	John P Hook	1
01656	Lithium	SW-846 6010B	1	112695708008	10/04/2011 01:37	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112695708008	10/04/2011 01:37	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112695708008	10/04/2011 01:37	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112695708008	10/04/2011 01:37	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112695708008	10/04/2011 01:37	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112695708008	10/04/2011 01:37	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112695708008	10/04/2011 01:37	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112695708008	10/04/2011 01:37	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112695708008	10/04/2011 01:37	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112695708008	10/04/2011 01:37	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112691026003A	09/28/2011 10:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112691026003A	09/28/2011 10:47	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112691026003D	09/28/2011 10:47	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112691026003A	09/28/2011 10:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112691026003A	09/28/2011 10:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112691026003A	09/28/2011 10:47	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112691026003A	09/28/2011 10:47	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-067-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-067-SA7-SS-0.0-0.5

LLI Sample # SW 6418460
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:59

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5210 SDG#: DE252-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	112691026003A	09/28/2011 10:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112691026003A	09/28/2011 10:47	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026003C	09/28/2011 10:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112691026003A	09/28/2011 10:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026003B	09/28/2011 10:47	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112691026003A	09/28/2011 10:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112691026003A	09/28/2011 10:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112691026003A	09/28/2011 10:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112691026003A	09/28/2011 10:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112695711005	09/28/2011 09:52	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708008	09/27/2011 22:28	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708003	10/04/2011 23:07	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708002	10/05/2011 22:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026003	09/27/2011 22:31	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711005	09/28/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621202A	10/01/2011 10:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11273373201A	10/01/2011 16:49	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11278243202A	10/06/2011 20:27	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11278102201A	10/05/2011 20:27	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621202A	09/30/2011 06:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11273373201A	09/30/2011 06:25	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11278102201A	10/05/2011 15:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11280039401B	10/07/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11278243202A	10/05/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403B	09/28/2011 21:38	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-068-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA7-SS-0.0-0.5

LLI Sample # SW 6418461
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:32

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5211 SDG#: DE252-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170		1
04688	4-Chloroaniline	106-47-8	66	U	66	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	99	U	99	330		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170		1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	990		1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	66	U	66	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	33	U	33	170		1
04688	4-Methylphenol	106-44-5	33	U	33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	33	U	33	170		1
04688	4-Nitroaniline	100-01-6	66	U	66	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-068-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-068-SA7-SS-0.0-0.5

LLI Sample # SW 6418461
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:32

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5211 SDG#: DE252-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.3	U	3.3	8.4		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.4		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.4		5
10138	Benzo(a)anthracene	56-55-3	3.3	U	3.3	8.4		5
10138	Benzo(a)pyrene	50-32-8	3.7	J	3.3	8.4		5
10138	Benzo(b)fluoranthene	205-99-2	8.7		3.3	8.4		5
10138	Benzo(g,h,i)perylene	191-24-2	3.3	U	3.3	8.4		5
10138	Benzo(k)fluoranthene	207-08-9	7.4	J	3.3	8.4		5
10138	Butylbenzylphthalate	85-68-7	60	J	30	90		5
10138	Chrysene	218-01-9	7.1	J	1.7	8.4		5
10138	Dibenz(a,h)anthracene	53-70-3	3.3	U	3.3	8.4		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	56	J	30	90		5
10138	Fluoranthene	206-44-0	7.7	J	3.3	8.4		5
10138	Fluorene	86-73-7	3.3	U	3.3	8.4		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.3	U	3.3	8.4		5
10138	1-Methylnaphthalene	90-12-0	3.3	U	3.3	8.4		5
10138	2-Methylnaphthalene	91-57-6	3.3	U	3.3	8.4		5
10138	Naphthalene	91-20-3	3.3	U	3.3	8.4		5
10138	N-Nitrosodimethylamine	62-75-9	3.3	U	3.3	8.4		5
10138	Phenanthrene	85-01-8	3.4	J	3.3	8.4		5
10138	Pyrene	129-00-0	5.2	J	3.3	8.4		5
	Reporting limits were raised due to interference from the sample matrix.							
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	10		0.63	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	140	U	140	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.10	U	0.10	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-068-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-068-SA7-SS-0.0-0.5

LLI Sample # SW 6418461
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:32

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5211 SDG#: DE252-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Reporting limits were raised due to interference from the sample matrix.								
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.043	J	0.034	0.17		1
01363	Chlordane	57-74-9	0.96	U	0.96	3.4		1
01363	p,p-DDD	72-54-8	0.30	U	0.30	0.34		1
01363	p,p-DDE	72-55-9	1.3		0.067	0.34		1
01363	p,p-DDT	50-29-3	2.5		0.067	0.34		1
01363	Delta BHC	319-86-8	0.15	U	0.15	0.17		1
01363	Dieldrin	60-57-1	0.53	U	0.53	0.53		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.30	U	0.30	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.28	U	0.28	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.48	U	0.48	0.48		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.13	U	0.13	0.17		1
01363	Methoxychlor	72-43-5	1.1	J	0.34	1.7		1
01363	Mirex	2385-85-5	0.52	U	0.52	0.52		1
01363	Toxaphene	8001-35-2	12	U	12	12		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	8.9		1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	15		0.33	1.7		1
10225	PCB-1260	11096-82-5	8.7		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-068-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-068-SA7-SS-0.0-0.5

LLI Sample # SW 6418461
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:32

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5211 SDG#: DE252-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.0	U	2.0	6.1		5
10199	EFH (C15-C20)	n.a.	7.0		2.0	6.1		5
10199	EFH (C21-C30)	n.a.	47		2.0	6.1		5
10199	EFH (C30 - C40)	n.a.	110		2.0	6.1		5
10199	EFH (C8-C11)	n.a.	2.0	U	2.0	6.1		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,900		6.12	20.2		1
07914	Boron	7440-42-8	9.72		0.364	5.06		1
01650	Calcium	7440-70-2	4,290		2.53	20.2		1
01654	Iron	7439-89-6	21,900		2.56	19.6		1
01656	Lithium	7439-93-2	25.4		0.63	2.0		1
01657	Magnesium	7439-95-4	5,270		0.445	10.1		1
06958	Manganese	7439-96-5	311		0.0364	0.506		1
10145	Phosphorus	7723-14-0	458		0.354	10.1		1
01662	Potassium	7440-09-7	3,770		11.4	50.6		1
01667	Sodium	7440-23-5	85.4	J	6.02	101		1
07968	Strontium	7440-24-6	18.8		0.0253	0.506		1
06969	Tin	7440-31-5	3.02	J	0.324	10.1		1
06970	Titanium	7440-32-6	1,310		0.0718	1.01		1
10146	Zirconium	7440-67-7	3.17	J	0.465	5.06		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.151	J	0.0741	0.200		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.61		0.0801	0.400		2
06126	Barium	7440-39-3	111		0.106	0.400		2
06127	Beryllium	7440-41-7	0.553		0.0160	0.100		2
06128	Cadmium	7440-43-9	0.219		0.0440	0.100		2
06131	Chromium	7440-47-3	23.1		0.120	0.400		2
06132	Cobalt	7440-48-4	7.65		0.0200	0.100		2
06133	Copper	7440-50-8	11.8		0.0801	0.400		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-068-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-068-SA7-SS-0.0-0.5

LLI Sample # SW 6418461
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:32

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5211 SDG#: DE252-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	17.3		0.0102	0.200		2
06138	Molybdenum	7439-98-7	0.679		0.0501	0.100		2
06139	Nickel	7440-02-0	15.4		0.100	0.400		2
06141	Selenium	7782-49-2	0.142	J	0.0581	0.400		2
06142	Silver	7440-22-4	0.0464	J	0.0142	0.100		2
06145	Thallium	7440-28-0	0.300		0.0300	0.100		2
06148	Vanadium	7440-62-2	51.5		0.0220	0.100		2
06149	Zinc	7440-66-6	79.3		0.561	3.00		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0227	J	0.0070	0.100		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.52	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.49		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.27		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-068-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA7-SS-0.0-0.5

LLI Sample # SW 6418461
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:32

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5211 SDG#: DE252-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLB026	10/04/2011 15:03	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274SLF026	10/09/2011 17:55	Chad A Moline	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11274SLF026	10/04/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLB026	10/03/2011 11:00	Olivia Arosemena	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112700013A	10/01/2011 14:04	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112730023A	10/07/2011 04:47	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112720029A	10/03/2011 20:54	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112730023A	10/02/2011 10:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112720029A	09/30/2011 11:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112700013A	09/29/2011 02:00	Kerrie A Freeburn	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112720046A	09/30/2011 10:49	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112730031A	10/01/2011 03:05	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112740015A	10/05/2011 22:09	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112740008A	10/06/2011 01:41	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112740008A	10/03/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112740015A	10/03/2011 13:30	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112720046A	09/29/2011 22:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112730031A	09/30/2011 19:20	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708008	10/04/2011 01:41	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112695708008	10/04/2011 01:41	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112695708008	10/04/2011 01:41	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708002	10/06/2011 21:12	John P Hook	1
01656	Lithium	SW-846 6010B	1	112695708008	10/04/2011 01:41	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112695708008	10/04/2011 01:41	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112695708008	10/04/2011 01:41	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112695708008	10/04/2011 01:41	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112695708008	10/04/2011 01:41	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112695708008	10/04/2011 01:41	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112695708008	10/04/2011 01:41	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112695708008	10/04/2011 01:41	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112695708008	10/04/2011 01:41	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112695708008	10/04/2011 01:41	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112691026003A	09/28/2011 10:50	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112691026003A	09/28/2011 10:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112691026003D	09/28/2011 10:50	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112691026003A	09/28/2011 10:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112691026003A	09/28/2011 10:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112691026003A	09/28/2011 10:50	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112691026003A	09/28/2011 10:50	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-068-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-068-SA7-SS-0.0-0.5

LLI Sample # SW 6418461
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:32

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5211 SDG#: DE252-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	112691026003A	09/28/2011 10:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112691026003A	09/28/2011 10:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026003C	09/28/2011 10:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112691026003A	09/28/2011 10:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026003B	09/28/2011 10:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112691026003A	09/28/2011 10:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112691026003A	09/28/2011 10:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112691026003A	09/28/2011 10:50	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112691026003A	09/28/2011 10:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112695711005	09/28/2011 09:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708008	09/27/2011 22:28	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708003	10/04/2011 23:07	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708002	10/05/2011 22:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026003	09/27/2011 22:31	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711005	09/28/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621202B	10/01/2011 10:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11273373201B	10/01/2011 17:12	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11278243202A	10/06/2011 20:40	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11278102201A	10/05/2011 20:28	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621202B	09/30/2011 06:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11273373201B	09/30/2011 06:25	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11278102201A	10/05/2011 15:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11280039401B	10/07/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11278243202A	10/05/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403B	09/28/2011 21:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-069-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA7-SS-0.0-0.5

LLI Sample # SW 6418462
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 12:31

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5212 SDG#: DE252-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170		1
04688	4-Chloroaniline	106-47-8	66	U	66	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	330		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170		1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	66	U	66	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	33	U	33	170		1
04688	4-Methylphenol	106-44-5	33	U	33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	33	U	33	170		1
04688	4-Nitroaniline	100-01-6	66	U	66	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-069-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-069-SA7-SS-0.0-0.5

LLI Sample # SW 6418462
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 12:31

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5212 SDG#: DE252-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.66	U	0.66	1.7		1
10138	Acenaphthylene	208-96-8	0.33	U	0.33	1.7		1
10138	Anthracene	120-12-7	0.33	U	0.33	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.66	U	0.66	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.66	U	0.66	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.84	J	0.66	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.66	U	0.66	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.66	U	0.66	1.7		1
10138	Butylbenzylphthalate	85-68-7	7.4	J	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	0.33	U	0.33	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.66	U	0.66	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.4	J	6.0	18		1
10138	Fluoranthene	206-44-0	0.66	U	0.66	1.7		1
10138	Fluorene	86-73-7	0.66	U	0.66	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.66	U	0.66	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.66	U	0.66	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.66	U	0.66	1.7		1
10138	Naphthalene	91-20-3	0.66	U	0.66	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.66	U	0.66	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	0.66	U	0.66	1.7		1
10138	Pyrene	129-00-0	0.66	U	0.66	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.9	U	1.9	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1		1
10401	2,4-DB	94-82-6	1.1	U	1.1	1.7		1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
	Reporting limits were raised due to interference from the sample matrix.							
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-069-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA7-SS-0.0-0.5

LLI Sample # SW 6418462
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 12:31

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5212 SDG#: DE252-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	2.0	U	2.0	3.4		1
01363	p,p-DDD	72-54-8	0.15	U	0.15	0.34		1
01363	p,p-DDE	72-55-9	0.34	J	0.067	0.34		1
01363	p,p-DDT	50-29-3	0.30	U	0.30	0.34		1
01363	Delta BHC	319-86-8	0.047	U	0.047	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.18	J	0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.58	J	0.33	1.7		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1

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Sample Description: SL-069-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA7-SS-0.0-0.5

LLI Sample # SW 6418462
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 12:31

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5212 SDG#: DE252-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.0	U	2.0	6.1		5
10199	EFH (C15-C20)	n.a.	5.2	J	2.0	6.1		5
10199	EFH (C21-C30)	n.a.	32		2.0	6.1		5
10199	EFH (C30 - C40)	n.a.	65		2.0	6.1		5
10199	EFH (C8-C11)	n.a.	2.1	J	2.0	6.1		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,100		5.89	19.5		1
07914	Boron	7440-42-8	7.86		0.350	4.87		1
01650	Calcium	7440-70-2	3,310		2.43	19.5		1
01654	Iron	7439-89-6	20,900		2.62	20.0		1
01656	Lithium	7439-93-2	22.6		0.60	1.9		1
01657	Magnesium	7439-95-4	5,170		0.428	9.73		1
06958	Manganese	7439-96-5	314		0.0350	0.487		1
10145	Phosphorus	7723-14-0	382		0.341	9.73		1
01662	Potassium	7440-09-7	3,400		11.0	48.7		1
01667	Sodium	7440-23-5	74.2	J	5.79	97.3		1
07968	Strontium	7440-24-6	17.3		0.0243	0.487		1
06969	Tin	7440-31-5	2.80	J	0.311	9.73		1
06970	Titanium	7440-32-6	1,300		0.0691	0.973		1
10146	Zirconium	7440-67-7	2.86	J	0.448	4.87		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.189	J	0.0727	0.197		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.10		0.0786	0.393		2
06126	Barium	7440-39-3	123		0.104	0.393		2
06127	Beryllium	7440-41-7	0.647		0.0157	0.0983		2
06128	Cadmium	7440-43-9	0.182		0.0432	0.0983		2
06131	Chromium	7440-47-3	25.2		0.118	0.393		2
06132	Cobalt	7440-48-4	9.10		0.0197	0.0983		2
06133	Copper	7440-50-8	13.9		0.0786	0.393		2
06135	Lead	7439-92-1	10.6		0.0100	0.197		2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-069-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA7-SS-0.0-0.5

LLI Sample # SW 6418462
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 12:31

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5212 SDG#: DE252-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06138	Molybdenum	7439-98-7	0.689		0.0491	0.0983		2
06139	Nickel	7440-02-0	17.3		0.0983	0.393		2
06141	Selenium	7782-49-2	0.205	J	0.0570	0.393		2
06142	Silver	7440-22-4	0.0410	J	0.0140	0.0983		2
06145	Thallium	7440-28-0	0.349		0.0295	0.0983		2
06148	Vanadium	7440-62-2	53.5		0.0216	0.0983		2
06149	Zinc	7440-66-6	84.3		0.550	2.95		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0080	J	0.0071	0.100		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.83	U	0.83	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.95		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.2		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-069-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-069-SA7-SS-0.0-0.5

LLI Sample # SW 6418462
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 12:31

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5212 SDG#: DE252-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLB026	10/04/2011 15:28	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274SLF026	10/11/2011 00:29	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11274SLF026	10/04/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLB026	10/03/2011 11:00	Olivia Arosemena	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112700013A	10/01/2011 14:31	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112730023A	10/07/2011 05:01	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112720029A	10/03/2011 21:13	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112730023A	10/02/2011 10:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112720029A	09/30/2011 11:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112700013A	09/29/2011 02:00	Kerrie A Freeburn	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112720046A	09/30/2011 11:05	Elizabeth J Marin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112720046A	09/30/2011 19:40	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112730031A	10/01/2011 03:18	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112740015A	10/05/2011 22:36	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112790036A	10/11/2011 18:31	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	2	112790036A	10/07/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112740015A	10/03/2011 13:30	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112720046A	09/29/2011 22:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112730031A	09/30/2011 19:20	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708008	10/04/2011 01:44	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112695708008	10/04/2011 01:44	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112695708008	10/04/2011 01:44	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708002	10/06/2011 21:16	John P Hook	1
01656	Lithium	SW-846 6010B	1	112695708008	10/04/2011 01:44	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112695708008	10/04/2011 01:44	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112695708008	10/04/2011 01:44	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112695708008	10/04/2011 01:44	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112695708008	10/04/2011 01:44	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112695708008	10/04/2011 01:44	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112695708008	10/04/2011 01:44	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112695708008	10/04/2011 01:44	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112695708008	10/04/2011 01:44	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112695708008	10/04/2011 01:44	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112691026003A	09/28/2011 10:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112691026003A	09/28/2011 10:53	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112691026003D	09/28/2011 10:53	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112691026003A	09/28/2011 10:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112691026003A	09/28/2011 10:53	Choon Y Tian	2

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Analysis Report

Sample Description: SL-069-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA7-SS-0.0-0.5

LLI Sample # SW 6418462
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 12:31

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5212 SDG#: DE252-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112691026003A	09/28/2011 10:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112691026003A	09/28/2011 10:53	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112691026003A	09/28/2011 10:53	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112691026003A	09/28/2011 10:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026003C	09/28/2011 10:53	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112691026003A	09/28/2011 10:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026003B	09/28/2011 10:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112691026003A	09/28/2011 10:53	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112691026003A	09/28/2011 10:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112691026003A	09/28/2011 10:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112691026003A	09/28/2011 10:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112695711005	09/28/2011 09:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708008	09/27/2011 22:28	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708003	10/04/2011 23:07	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708002	10/05/2011 22:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026003	09/27/2011 22:31	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711005	09/28/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621202B	10/01/2011 11:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11273373201B	10/01/2011 18:45	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11278243202A	10/06/2011 21:01	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11278102201A	10/05/2011 20:30	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621202B	09/30/2011 06:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11273373201B	09/30/2011 06:25	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11278102201A	10/05/2011 15:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11280039401B	10/07/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11278243202A	10/05/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403B	09/28/2011 21:38	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-089-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SS-0.0-0.5

LLI Sample # SW 6418463
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 09:58

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5213 SDG#: DE252-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	173	U	173	345		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Sample Description: **SL-089-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SS-0.0-0.5

LLI Sample # SW 6418463
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 09:58

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5213 SDG#: DE252-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.3	J	0.70	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	0.50	J	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	21		6.3	19		1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.8		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.8		1
10138	Pyrene	129-00-0	0.70	U	0.70	1.8		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	63	U	63	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	84	U	84	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	84	U	84	250	10000000	1

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SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SS-0.0-0.5

LLI Sample # SW 6418463
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 09:58

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5213 SDG#: DE252-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	840	U	840	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	84	U	84	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	84	U	84	130	10000000	1
10132	PETN	78-11-5	840	U	840	2,500	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	64	U	64	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.8	J	1.3	3.8		1
10401	Dalapon	75-99-0	4.6	U	4.6	9.5		1
10401	2,4-DB	94-82-6	5.4		0.65	1.8		1
10401	Dicamba	1918-00-9	0.75	J	0.42	1.3		1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8		1
10401	MCPA	94-74-6	80	U	80	260		1
10401	MCPP (Mecoprop)	93-65-2	79	U	79	260		1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18		1
10401	2,4,5-TP	93-72-1	1.1		0.079	0.18		1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	790	J	630	1,600		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.070	U	0.070	0.17		1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.17		1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.17		1

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SL-089-SA7-SS-0.0-0.5

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E5213 SDG#: DE252-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Chlordane	57-74-9	2.5	U	2.5	3.6		1
01363	p,p-DDD	72-54-8	0.070	U	0.070	0.36		1
01363	p,p-DDE	72-55-9	0.42	U	0.42	0.42		1
01363	p,p-DDT	50-29-3	0.18	U	0.18	0.36		1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.17		1
01363	Dieldrin	60-57-1	0.070	U	0.070	0.36		1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17		1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36		1
01363	Endrin	72-20-8	0.070	U	0.070	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.070	U	0.070	0.36		1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36		1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.038	U	0.038	0.17		1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7		1
01363	Mirex	2385-85-5	0.070	U	0.070	0.36		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	3.3		0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1

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E5213 SDG#: DE252-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	1.4		0.42	1.3		1
10199	EFH (C21-C30)	n.a.	11		0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	29		0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,200		6.31	20.9		1
07914	Boron	7440-42-8	8.28		0.376	5.22		1
01650	Calcium	7440-70-2	5,500		2.61	20.9		1
01654	Iron	7439-89-6	17,400		2.72	20.9		1
01656	Lithium	7439-93-2	16.6		0.65	2.1		1
01657	Magnesium	7439-95-4	4,410		0.459	10.4		1
06958	Manganese	7439-96-5	275		0.0376	0.522		1
10145	Phosphorus	7723-14-0	458		0.365	10.4		1
01662	Potassium	7440-09-7	2,770		11.8	52.2		1
01667	Sodium	7440-23-5	214		6.21	104		1
07968	Strontium	7440-24-6	25.4		0.0261	0.522		1
06969	Tin	7440-31-5	2.59	J	0.334	10.4		1
06970	Titanium	7440-32-6	1,050		0.0741	1.04		1
10146	Zirconium	7440-67-7	2.87	J	0.480	5.22		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.266		0.0772	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.84		0.0835	0.417		2
06126	Barium	7440-39-3	90.9		0.111	0.417		2
06127	Beryllium	7440-41-7	0.421		0.0167	0.104		2
06128	Cadmium	7440-43-9	0.196		0.0459	0.104		2
06131	Chromium	7440-47-3	18.2		0.125	0.417		2
06132	Cobalt	7440-48-4	6.47		0.0209	0.104		2
06133	Copper	7440-50-8	10.5		0.0835	0.417		2
06135	Lead	7439-92-1	11.3		0.0106	0.209		2
06138	Molybdenum	7439-98-7	0.552		0.0522	0.104		2
06139	Nickel	7440-02-0	12.0		0.104	0.417		2
06141	Selenium	7782-49-2	0.166	J	0.0605	0.417		2
06142	Silver	7440-22-4	0.0331	J	0.0148	0.104		2
06145	Thallium	7440-28-0	0.268		0.0313	0.104		2
06148	Vanadium	7440-62-2	38.2		0.0230	0.104		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-089-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SS-0.0-0.5

LLI Sample # SW 6418463
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 09:58

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5213 SDG#: DE252-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06149	Zinc	7440-66-6	60.0		0.584	3.13		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0115	J	0.0069	0.0984		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	24.4		0.85	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.83		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11274SLE026	10/06/2011 16:51	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLB026	10/04/2011 15:54	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274SLF026	10/11/2011 01:02	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11274SLE026	10/03/2011 09:45	Kerrie A Freeburn	1

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-089-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SS-0.0-0.5

LLI Sample # SW 6418463
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 09:58

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5213 SDG#: DE252-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11274SLF026	10/04/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLB026	10/03/2011 11:00	Olivia Arosemena	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112690017A	10/05/2011 09:54	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670064A	09/29/2011 20:16	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112700013A	10/01/2011 14:58	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112730023A	10/07/2011 05:16	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112720029A	10/03/2011 22:47	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112730023A	10/02/2011 10:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112720029A	09/30/2011 11:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112700013A	09/29/2011 02:00	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670064A	09/28/2011 12:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	112690017A	09/29/2011 14:30	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112720046A	09/30/2011 11:21	Tracy A Cole	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112730031A	10/01/2011 03:31	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112740015A	10/05/2011 23:03	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112740008A	10/05/2011 14:50	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112740008A	10/03/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112740015A	10/03/2011 13:30	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112720046A	09/29/2011 22:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112730031A	09/30/2011 19:20	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708008	10/04/2011 01:55	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112695708008	10/04/2011 01:55	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112695708008	10/04/2011 01:55	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708002	10/06/2011 21:19	John P Hook	1
01656	Lithium	SW-846 6010B	1	112695708008	10/04/2011 01:55	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112695708008	10/04/2011 01:55	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112695708008	10/04/2011 01:55	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112695708008	10/04/2011 01:55	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112695708008	10/04/2011 01:55	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112695708008	10/04/2011 01:55	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112695708008	10/04/2011 01:55	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112695708008	10/04/2011 01:55	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112695708008	10/04/2011 01:55	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112695708008	10/04/2011 01:55	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112691026003A	09/28/2011 10:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112691026003A	09/28/2011 10:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112691026003D	09/28/2011 10:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112691026003A	09/28/2011 10:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112691026003A	09/28/2011 10:57	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SS-0.0-0.5

LLI Sample # SW 6418463
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 09:58

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5213 SDG#: DE252-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112691026003A	09/28/2011 10:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112691026003A	09/28/2011 10:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112691026003A	09/28/2011 10:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112691026003A	09/28/2011 10:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026003C	09/28/2011 10:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112691026003A	09/28/2011 10:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026003B	09/28/2011 10:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112691026003A	09/28/2011 10:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112691026003A	09/28/2011 10:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112691026003A	09/28/2011 10:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112691026003A	09/28/2011 10:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112695711005	09/28/2011 09:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708008	09/27/2011 22:28	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708003	10/04/2011 23:07	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708002	10/05/2011 22:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026003	09/27/2011 22:31	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711005	09/28/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621202B	10/01/2011 11:33	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11273621202B	10/01/2011 11:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11273373201B	10/01/2011 19:08	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11278243202A	10/06/2011 21:07	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11278102201B	10/05/2011 20:31	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621202B	09/30/2011 06:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11273373201B	09/30/2011 06:25	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11278102201B	10/05/2011 15:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11280039401B	10/07/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11278243202A	10/05/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11284162402A	10/11/2011 18:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-152-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-152-SA7-SS-0.0-0.5

LLI Sample # SW 6418464
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 11:15

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5214 SDG#: DE252-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	169	U	169	337		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	330		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170		1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	33	U	33	170		1
04688	4-Methylphenol	106-44-5	33	U	33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	33	U	33	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-152-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-152-SA7-SS-0.0-0.5

LLI Sample # SW 6418464
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 11:15

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5214 SDG#: DE252-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.60	J	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.68	U	0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.68	U	0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	10		0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.68	U	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.68	U	0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	22		6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	J	6.1	18		1
10138	Fluoranthene	206-44-0	0.68	U	0.68	1.7		1
10138	Fluorene	86-73-7	0.74	J	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	0.68	U	0.68	1.7		1
10138	Pyrene	129-00-0	0.68	U	0.68	1.7		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1

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Sample Description: SL-152-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-152-SA7-SS-0.0-0.5

LLI Sample # SW 6418464
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 11:15

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5214 SDG#: DE252-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	0.80	U	0.80	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.19	U	0.19	0.19		1
10401	2,4,5-TP	93-72-1	0.27		0.076	0.17		1
	Reporting limits were raised due to interference from the sample matrix.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	710	J	610	1,500		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1

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Sample Description: **SL-152-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-152-SA7-SS-0.0-0.5

LLI Sample # SW 6418464
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 11:15

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5214 SDG#: DE252-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.5		1
01363	p,p-DDD	72-54-8	0.18	U	0.18	0.35		1
01363	p,p-DDE	72-55-9	0.75		0.067	0.35		1
01363	p,p-DDT	50-29-3	0.61	U	0.61	0.61		1
01363	Delta BHC	319-86-8	0.15	J	0.037	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.18	U	0.18	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.33	U	0.33	0.35		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.087	U	0.087	0.17		1
01363	Methoxychlor	72-43-5	0.53	J	0.35	1.7		1
01363	Mirex	2385-85-5	0.21	U	0.21	0.35		1
01363	Toxaphene	8001-35-2	6.4	J	2.2	6.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	4.1		1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	4.7		0.34	1.7		1
10225	PCB-1260	11096-82-5	5.4		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	210	J	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1

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Sample Description: **SL-152-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-152-SA7-SS-0.0-0.5

LLI Sample # SW 6418464
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 11:15

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5214 SDG#: DE252-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.0	U	2.0	6.1		5
10199	EFH (C15-C20)	n.a.	2.3	J	2.0	6.1		5
10199	EFH (C21-C30)	n.a.	25		2.0	6.1		5
10199	EFH (C30 - C40)	n.a.	58		2.0	6.1		5
10199	EFH (C8-C11)	n.a.	3.5	J	2.0	6.1		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,800		6.16	20.4		1
07914	Boron	7440-42-8	8.34		0.367	5.09		1
01650	Calcium	7440-70-2	4,080		2.55	20.4		1
01654	Iron	7439-89-6	20,600		2.58	19.8		1
01656	Lithium	7439-93-2	24.9		0.63	2.0		1
01657	Magnesium	7439-95-4	5,690		0.448	10.2		1
06958	Manganese	7439-96-5	312		0.0367	0.509		1
10145	Phosphorus	7723-14-0	422		0.356	10.2		1
01662	Potassium	7440-09-7	3,280		11.5	50.9		1
01667	Sodium	7440-23-5	139		6.06	102		1
07968	Strontium	7440-24-6	19.2		0.0255	0.509		1
06969	Tin	7440-31-5	3.05	J	0.326	10.2		1
06970	Titanium	7440-32-6	1,430		0.0723	1.02		1
10146	Zirconium	7440-67-7	2.99	J	0.468	5.09		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.190	J	0.0739	0.200		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.67		0.0799	0.399		2
06126	Barium	7440-39-3	100		0.106	0.399		2
06127	Beryllium	7440-41-7	0.466		0.0160	0.0998		2
06128	Cadmium	7440-43-9	0.167		0.0439	0.0998		2
06131	Chromium	7440-47-3	18.6		0.120	0.399		2
06132	Cobalt	7440-48-4	6.88		0.0200	0.0998		2
06133	Copper	7440-50-8	10.6		0.0799	0.399		2
06135	Lead	7439-92-1	9.45		0.0102	0.200		2
06138	Molybdenum	7439-98-7	0.450		0.0499	0.0998		2

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Sample Description: **SL-152-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-152-SA7-SS-0.0-0.5

LLI Sample # SW 6418464
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 11:15

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5214 SDG#: DE252-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	12.8		0.0998	0.399		2
06141	Selenium	7782-49-2	0.174	J	0.0579	0.399		2
06142	Silver	7440-22-4	0.0376	J	0.0142	0.0998		2
06145	Thallium	7440-28-0	0.296		0.0300	0.0998		2
06148	Vanadium	7440-62-2	40.9		0.0220	0.0998		2
06149	Zinc	7440-66-6	73.8		0.559	3.00		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0088	J	0.0070	0.0997		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.4		0.81	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.09		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.8		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11274SLE026	10/06/2011 17:10	Matthew S Woods	10

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Sample Description: **SL-152-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-152-SA7-SS-0.0-0.5

LLI Sample # SW 6418464
LLI Group # 1268211
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14420 Albemarle Point Place
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E5214 SDG#: DE252-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLB026	10/04/2011 16:19	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274SLF026	10/11/2011 01:35	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11274SLE026	10/03/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11274SLF026	10/04/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLB026	10/03/2011 11:00	Olivia Arosemena	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112690017A	10/05/2011 10:36	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670064A	09/29/2011 20:25	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112700013A	10/01/2011 15:26	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112730023A	10/07/2011 05:31	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112720029A	10/03/2011 23:06	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112730023A	10/02/2011 10:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112720029A	09/30/2011 11:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112700013A	09/29/2011 02:00	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670064A	09/28/2011 12:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	112690017A	09/29/2011 14:30	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112720046A	09/30/2011 11:38	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112730031A	10/01/2011 03:44	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112740015A	10/05/2011 23:30	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112790036A	10/11/2011 18:54	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	2	112790036A	10/07/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112740015A	10/03/2011 13:30	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112720046A	09/29/2011 22:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112730031A	09/30/2011 19:20	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708008	10/04/2011 01:59	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112695708008	10/04/2011 01:59	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112695708008	10/04/2011 01:59	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708002	10/06/2011 21:31	John P Hook	1
01656	Lithium	SW-846 6010B	1	112695708008	10/04/2011 01:59	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112695708008	10/04/2011 01:59	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112695708008	10/04/2011 01:59	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112695708008	10/04/2011 01:59	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112695708008	10/04/2011 01:59	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112695708008	10/04/2011 01:59	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112695708008	10/04/2011 01:59	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112695708008	10/04/2011 01:59	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112695708008	10/04/2011 01:59	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112695708008	10/04/2011 01:59	John W Yanzuk II	1

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Sample Description: SL-152-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-152-SA7-SS-0.0-0.5

LLI Sample # SW 6418464
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 11:15

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E5214 SDG#: DE252-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112691026003A	09/28/2011 11:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112691026003A	09/28/2011 11:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112691026003D	09/28/2011 11:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112691026003A	09/28/2011 11:06	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112691026003A	09/28/2011 11:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112691026003A	09/28/2011 11:06	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112691026003A	09/28/2011 11:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112691026003A	09/28/2011 11:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112691026003A	09/28/2011 11:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026003C	09/28/2011 11:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112691026003A	09/28/2011 11:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026003B	09/28/2011 11:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112691026003A	09/28/2011 11:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112691026003A	09/28/2011 11:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112691026003A	09/28/2011 11:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112691026003A	09/28/2011 11:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112695711005	09/28/2011 09:57	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708008	09/27/2011 22:28	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708003	10/04/2011 23:07	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708002	10/05/2011 22:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026003	09/27/2011 22:31	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711005	09/28/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621202B	10/01/2011 11:48	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11273621202B	10/01/2011 11:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11273373201B	10/01/2011 19:31	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11278243202A	10/06/2011 21:34	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11278102201B	10/05/2011 20:34	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621202B	09/30/2011 06:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11273373201B	09/30/2011 06:25	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11278102201B	10/05/2011 15:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11280039401B	10/07/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11278243202A	10/05/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11284162402A	10/11/2011 18:16	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-153-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-153-SA7-SS-0.0-0.5

LLI Sample # SW 6418465
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 11:45

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5215 SDG#: DE252-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	167	U	167	333		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170		1
04688	4-Chloroaniline	106-47-8	66	U	66	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	99	U	99	330		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170		1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	990		1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	66	U	66	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	33	U	33	170		1
04688	4-Methylphenol	106-44-5	33	U	33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	33	U	33	170		1
04688	4-Nitroaniline	100-01-6	66	U	66	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Sample Description: SL-153-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-153-SA7-SS-0.0-0.5

LLI Sample # SW 6418465
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 11:45

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5215 SDG#: DE252-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.66	U	0.66	1.7		1
10138	Acenaphthylene	208-96-8	0.33	U	0.33	1.7		1
10138	Anthracene	120-12-7	0.33	U	0.33	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.66	U	0.66	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.66	U	0.66	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	2.2		0.66	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.66	U	0.66	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.66	U	0.66	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	0.33	U	0.33	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.66	U	0.66	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J	6.0	18		1
10138	Fluoranthene	206-44-0	0.66	U	0.66	1.7		1
10138	Fluorene	86-73-7	0.66	U	0.66	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.66	U	0.66	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.66	U	0.66	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.66	U	0.66	1.7		1
10138	Naphthalene	91-20-3	0.66	U	0.66	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.66	U	0.66	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	0.66	U	0.66	1.7		1
10138	Pyrene	129-00-0	0.66	U	0.66	1.7		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	60	U	60	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	40	U	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	81	U	81	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	81	U	81	240	10000000	1

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Sample Description: SL-153-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-153-SA7-SS-0.0-0.5

LLI Sample # SW 6418465
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 11:45

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5215 SDG#: DE252-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3-Dinitrobenzene	99-65-0	40	U	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	40	U	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	40	U	40	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	40	U	40	120	10000000	1
10132	Nitroglycerin	55-63-0	810	U	810	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	81	U	81	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	81	U	81	120	10000000	1
10132	PETN	78-11-5	810	U	810	2,400	10000000	1
10132	RDX	121-82-4	50	U	50	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	40	U	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	40	U	40	120	10000000	1
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6		1
10401	Dalapon	75-99-0	4.4	U	4.4	9.0		1
10401	2,4-DB	94-82-6	2.9	U	2.9	2.9		1
10401	Dicamba	1918-00-9	0.41	J	0.40	1.2		1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.80	U	0.80	1.7		1
10401	MCPA	94-74-6	76	U	76	250		1
10401	MCPP (Mecoprop)	93-65-2	75	U	75	250		1
10401	2,4,5-T	93-76-5	0.082	U	0.082	0.17		1
10401	2,4,5-TP	93-72-1	0.075	U	0.075	0.17		1
	Reporting limits were raised due to interference from the sample matrix.							
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	1,100	J	600	1,500		1
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.060	U	0.060	0.17		1

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Sample Description: **SL-153-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-153-SA7-SS-0.0-0.5

LLI Sample # SW 6418465
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Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E5215 SDG#: DE252-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1
01363	p,p-DDD	72-54-8	0.066	U	0.066	0.34		1
01363	p,p-DDE	72-55-9	0.15	J	0.066	0.34		1
01363	p,p-DDT	50-29-3	0.12	J	0.066	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.066	U	0.066	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.066	U	0.066	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.066	U	0.066	0.34		1
01363	Endrin	72-20-8	0.066	U	0.066	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.18	J	0.066	0.34		1
01363	Endrin Ketone	53494-70-5	0.066	U	0.066	0.34		1
01363	Heptachlor	76-44-8	0.060	U	0.060	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.066	U	0.066	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.6		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	170	J	100	500		1
10501	Isopropanol	67-63-0	100	U	100	500		1
10501	Methanol	67-56-1	220	J	100	500		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.0	U	5.0	10		1
08283	Ethylene glycol	107-21-1	5.0	U	5.0	10		1

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Sample Description: **SL-153-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-153-SA7-SS-0.0-0.5

LLI Sample # SW 6418465
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Collected: 09/23/2011 11:45

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14420 Albemarle Point Place
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E5215 SDG#: DE252-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Propylene glycol	57-55-6	5.0	U	5.0	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.0	U	2.0	6.0		5
10199	EFH (C15-C20)	n.a.	2.0	U	2.0	6.0		5
10199	EFH (C21-C30)	n.a.	15		2.0	6.0		5
10199	EFH (C30 - C40)	n.a.	56		2.0	6.0		5
10199	EFH (C8-C11)	n.a.	2.0	J	2.0	6.0		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	9,570		5.91	19.6		1
07914	Boron	7440-42-8	6.41		0.352	4.89		1
01650	Calcium	7440-70-2	2,650		2.44	19.6		1
01654	Iron	7439-89-6	17,300		2.55	19.6		1
01656	Lithium	7439-93-2	17.8		0.61	2.0		1
01657	Magnesium	7439-95-4	4,350		0.430	9.78		1
06958	Manganese	7439-96-5	255		0.0352	0.489		1
10145	Phosphorus	7723-14-0	371		0.342	9.78		1
01662	Potassium	7440-09-7	2,510		11.0	48.9		1
01667	Sodium	7440-23-5	126		5.82	97.8		1
07968	Strontium	7440-24-6	12.4		0.0244	0.489		1
06969	Tin	7440-31-5	2.58	J	0.313	9.78		1
06970	Titanium	7440-32-6	1,110		0.0694	0.978		1
10146	Zirconium	7440-67-7	2.32	J	0.450	4.89		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.137	J	0.0723	0.196		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.09		0.0782	0.391		2
06126	Barium	7440-39-3	73.3		0.104	0.391		2
06127	Beryllium	7440-41-7	0.376		0.0156	0.0978		2
06128	Cadmium	7440-43-9	0.0883	J	0.0430	0.0978		2
06131	Chromium	7440-47-3	15.5		0.117	0.391		2
06132	Cobalt	7440-48-4	5.58		0.0196	0.0978		2
06133	Copper	7440-50-8	8.10		0.0782	0.391		2
06135	Lead	7439-92-1	5.29		0.010	0.196		2
06138	Molybdenum	7439-98-7	0.350		0.0489	0.0978		2

*=This limit was used in the evaluation of the final result
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Sample Description: SL-153-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-153-SA7-SS-0.0-0.5

LLI Sample # SW 6418465
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 11:45

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5215 SDG#: DE252-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06139	Nickel	7440-02-0	10.1	0.0978	0.391		2
06141	Selenium	7782-49-2	0.108 J	0.0567	0.391		2
06142	Silver	7440-22-4	0.0214 J	0.0139	0.0978		2
06145	Thallium	7440-28-0	0.223	0.0293	0.0978		2
06148	Vanadium	7440-62-2	35.2	0.0215	0.0978		2
06149	Zinc	7440-66-6	51.4	0.547	2.93		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0068 U	0.0068	0.0970		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5	0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.7	0.82	1.5		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1 U	9.1	30.2		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.19 U	0.19	0.97		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18 U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.98	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.69	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11274SLE026	10/06/2011 17:28	Matthew S Woods	10

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Sample Description: **SL-153-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-153-SA7-SS-0.0-0.5

LLI Sample # SW 6418465
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 11:45

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5215 SDG#: DE252-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLB026	10/04/2011 16:44	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274SLF026	10/11/2011 02:08	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11274SLE026	10/03/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11274SLF026	10/04/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLB026	10/03/2011 11:00	Olivia Arosemena	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112690017A	10/05/2011 11:18	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670064A	09/29/2011 20:35	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112700013A	10/01/2011 15:53	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112730023A	10/07/2011 05:46	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112720029A	10/03/2011 23:24	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112730023A	10/02/2011 10:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112720029A	09/30/2011 11:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112700013A	09/29/2011 02:00	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670064A	09/28/2011 12:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	112690017A	09/29/2011 14:30	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112720046A	09/30/2011 11:54	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112730031A	10/01/2011 03:57	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112740015A	10/05/2011 23:58	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112790036A	10/11/2011 19:18	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	2	112790036A	10/07/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112740015A	10/03/2011 13:30	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112720046A	09/29/2011 22:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112730031A	09/30/2011 19:20	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708008	10/04/2011 02:03	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112695708008	10/04/2011 02:03	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112695708008	10/04/2011 02:03	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708002	10/06/2011 21:35	John P Hook	1
01656	Lithium	SW-846 6010B	1	112695708008	10/04/2011 02:03	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112695708008	10/04/2011 02:03	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112695708008	10/04/2011 02:03	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112695708008	10/04/2011 02:03	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112695708008	10/04/2011 02:03	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112695708008	10/04/2011 02:03	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112695708008	10/04/2011 02:03	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112695708008	10/04/2011 02:03	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112695708008	10/04/2011 02:03	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112695708008	10/04/2011 02:03	John W Yanzuk II	1

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Sample Description: SL-153-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-153-SA7-SS-0.0-0.5

LLI Sample # SW 6418465
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 11:45

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5215 SDG#: DE252-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112691026003A	09/28/2011 11:09	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112691026003A	09/28/2011 11:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112691026003D	09/28/2011 11:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112691026003A	09/28/2011 11:09	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112691026003A	09/28/2011 11:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112691026003A	09/28/2011 11:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112691026003A	09/28/2011 11:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112691026003A	09/28/2011 11:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112691026003A	09/28/2011 11:09	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026003C	09/28/2011 11:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112691026003A	09/28/2011 11:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026003B	09/28/2011 11:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112691026003A	09/28/2011 11:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112691026003A	09/28/2011 11:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112691026003A	09/28/2011 11:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112691026003A	09/28/2011 11:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112695711005	09/28/2011 10:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708008	09/27/2011 22:28	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708003	10/04/2011 23:07	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708002	10/05/2011 22:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026003	09/27/2011 22:31	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711005	09/28/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621202B	10/01/2011 12:04	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11273621202B	10/01/2011 12:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11273373201B	10/01/2011 19:54	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11278243202A	10/06/2011 21:48	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11278102201B	10/05/2011 20:38	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621202B	09/30/2011 06:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11273373201B	09/30/2011 06:25	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11278102201B	10/05/2011 15:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11280039401B	10/07/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11278243202A	10/05/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11284162402A	10/11/2011 18:16	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-181-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA7-SS-0.0-0.5

LLI Sample # SW 6418466
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 10:35

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5216 SDG#: DE252-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	168	U	168	336		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Sample Description: SL-181-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA7-SS-0.0-0.5

LLI Sample # SW 6418466
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 10:35

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5216 SDG#: DE252-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.68	U	0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.68	U	0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.68	U	0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.68	U	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.68	U	0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.1	U	6.1	18		1
10138	Fluoranthene	206-44-0	0.68	U	0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	0.68	U	0.68	1.7		1
10138	Pyrene	129-00-0	0.68	U	0.68	1.7		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250	10000000	1

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Sample Description: SL-181-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA7-SS-0.0-0.5

LLI Sample # SW 6418466
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 10:35

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5216 SDG#: DE252-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,500	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	5.8		0.63	1.7		1
10401	Dicamba	1918-00-9	0.80	J	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	78	U	78	260		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	1.1		0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	940	J	610	1,500		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1

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Sample Description: SL-181-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA7-SS-0.0-0.5

LLI Sample # SW 6418466
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 10:35

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5216 SDG#: DE252-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	Chlordane	57-74-9	0.82	U	0.82	3.5		1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35		1
01363	p,p-DDE	72-55-9	0.46		0.068	0.35		1
01363	p,p-DDT	50-29-3	0.24	J	0.068	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.068	U	0.068	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.068	U	0.068	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35		1
01363	Endrin	72-20-8	0.068	U	0.068	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.068	U	0.068	0.35		1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.063	U	0.063	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.068	U	0.068	0.35		1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.8		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: heptachlor epoxide.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.6	J	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	2.4		0.34	1.7		1
10225	PCB-1260	11096-82-5	1.6	J	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	110	J	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1

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Sample Description: **SL-181-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA7-SS-0.0-0.5

LLI Sample # SW 6418466
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 10:35

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5216 SDG#: DE252-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.0	U	2.0	6.1		5
10199	EFH (C15-C20)	n.a.	3.9	J	2.0	6.1		5
10199	EFH (C21-C30)	n.a.	20		2.0	6.1		5
10199	EFH (C30 - C40)	n.a.	80		2.0	6.1		5
10199	EFH (C8-C11)	n.a.	2.0	U	2.0	6.1		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,100		6.08	20.1		1
07914	Boron	7440-42-8	8.97		0.362	5.02		1
01650	Calcium	7440-70-2	6,390		2.51	20.1		1
01654	Iron	7439-89-6	22,100		2.62	20.1		1
01656	Lithium	7439-93-2	22.6		0.62	2.0		1
01657	Magnesium	7439-95-4	6,320		0.442	10.0		1
06958	Manganese	7439-96-5	372		0.0362	0.502		1
10145	Phosphorus	7723-14-0	499		0.352	10.0		1
01662	Potassium	7440-09-7	3,830		11.4	50.2		1
01667	Sodium	7440-23-5	136		5.98	100		1
07968	Strontium	7440-24-6	20.0		0.0251	0.502		1
06969	Tin	7440-31-5	2.74	J	0.321	10.0		1
06970	Titanium	7440-32-6	1,340		0.0713	1.00		1
10146	Zirconium	7440-67-7	3.05	J	0.462	5.02		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.208		0.0751	0.203		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.36		0.0812	0.406		2
06126	Barium	7440-39-3	98.2		0.108	0.406		2
06127	Beryllium	7440-41-7	0.566		0.0162	0.101		2
06128	Cadmium	7440-43-9	0.207		0.0446	0.101		2
06131	Chromium	7440-47-3	23.2		0.122	0.406		2
06132	Cobalt	7440-48-4	7.68		0.0203	0.101		2
06133	Copper	7440-50-8	12.3		0.0812	0.406		2
06135	Lead	7439-92-1	7.82		0.0103	0.203		2

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Sample Description: SL-181-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA7-SS-0.0-0.5

LLI Sample # SW 6418466
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 10:35

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5216 SDG#: DE252-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06138	Molybdenum	7439-98-7	0.584		0.0507	0.101		2
06139	Nickel	7440-02-0	14.9		0.101	0.406		2
06141	Selenium	7782-49-2	0.206	J	0.0588	0.406		2
06142	Silver	7440-22-4	0.0380	J	0.0144	0.101		2
06145	Thallium	7440-28-0	0.352		0.0304	0.101		2
06148	Vanadium	7440-62-2	46.7		0.0223	0.101		2
06149	Zinc	7440-66-6	87.9		0.568	3.04		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0147	J	0.0069	0.0978		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0		0.83	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	26.3		0.83	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.49		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.43		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.4		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

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Sample Description: **SL-181-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA7-SS-0.0-0.5

LLI Sample # SW 6418466
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 10:35

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Suite 210
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E5216 SDG#: DE252-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11274SLE026	10/06/2011 17:47	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLB026	10/04/2011 17:09	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274SLF026	10/11/2011 02:41	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11274SLE026	10/03/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11274SLF026	10/04/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLB026	10/03/2011 11:00	Olivia Arosemena	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112690017A	10/05/2011 12:01	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670064A	09/29/2011 20:45	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112700013A	10/01/2011 16:21	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112730023A	10/07/2011 06:01	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112720029A	10/03/2011 23:43	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112730023A	10/02/2011 10:30	Olivia Arosemena	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112720029A	09/30/2011 11:00	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112700013A	09/29/2011 02:00	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670064A	09/28/2011 12:30	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	112690017A	09/29/2011 14:30	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112720046A	09/30/2011 20:45	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112730031A	10/01/2011 04:09	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112740015A	10/06/2011 00:25	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112740008A	10/06/2011 02:05	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112740008A	10/03/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112740015A	10/03/2011 13:30	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112720046A	09/29/2011 22:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112730031A	09/30/2011 19:20	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708008	10/04/2011 02:06	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112695708008	10/04/2011 02:06	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112695708008	10/04/2011 02:06	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708002	10/06/2011 21:39	John P Hook	1
01656	Lithium	SW-846 6010B	1	112695708008	10/04/2011 02:06	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112695708008	10/04/2011 02:06	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112695708008	10/04/2011 02:06	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112695708008	10/04/2011 02:06	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112695708008	10/04/2011 02:06	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112695708008	10/04/2011 02:06	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112695708008	10/04/2011 02:06	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112695708008	10/04/2011 02:06	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112695708008	10/04/2011 02:06	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-181-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-181-SA7-SS-0.0-0.5

LLI Sample # SW 6418466
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 10:35

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5216 SDG#: DE252-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	112695708008	10/04/2011 02:06	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112691026003A	09/28/2011 11:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112691026003A	09/28/2011 11:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112691026003D	09/28/2011 11:12	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112691026003A	09/28/2011 11:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112691026003A	09/28/2011 11:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112691026003A	09/28/2011 11:12	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112691026003A	09/28/2011 11:12	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112691026003A	09/28/2011 11:12	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112691026003A	09/28/2011 11:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026003C	09/28/2011 11:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112691026003A	09/28/2011 11:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026003B	09/28/2011 11:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112691026003A	09/28/2011 11:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112691026003A	09/28/2011 11:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112691026003A	09/28/2011 11:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112691026003A	09/28/2011 11:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112695711005	09/28/2011 10:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708008	09/27/2011 22:28	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708003	10/04/2011 23:07	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708002	10/05/2011 22:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026003	09/27/2011 22:31	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711005	09/28/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621202B	10/01/2011 12:19	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11273621202B	10/01/2011 12:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11273373201B	10/01/2011 20:17	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11278243202A	10/06/2011 22:01	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11278102201B	10/05/2011 20:39	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621202B	09/30/2011 06:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11273373201B	09/30/2011 06:25	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11278102201B	10/05/2011 15:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11280039401B	10/07/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11278243202A	10/05/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11284162402A	10/11/2011 18:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-030-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA7-SB-4.0-5.0

LLI Sample # SW 6418467
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 09:00

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5217 SDG#: DE252-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-030-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-030-SA7-SB-4.0-5.0

LLI Sample # SW 6418467
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 09:00

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5217 SDG#: DE252-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	24		6.3	19		1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.7		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	9.7	J	6.3	19		1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.7		1
10138	Pyrene	129-00-0	0.70	U	0.70	1.7		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-030-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA7-SB-4.0-5.0

LLI Sample # SW 6418467
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 09:00

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5217 SDG#: DE252-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,300		6.34	21.0		1
07914	Boron	7440-42-8	7.69		0.377	5.24		1
01650	Calcium	7440-70-2	2,000		2.62	21.0		1
01654	Iron	7439-89-6	19,300		2.73	21.0		1
01656	Lithium	7439-93-2	26.6		0.65	2.1		1
01657	Magnesium	7439-95-4	4,200		0.461	10.5		1
06958	Manganese	7439-96-5	317		0.0377	0.524		1
10145	Phosphorus	7723-14-0	381		0.367	10.5		1
01662	Potassium	7440-09-7	3,350		11.8	52.4		1
01667	Sodium	7440-23-5	70.5	J	6.23	105		1
07968	Strontium	7440-24-6	15.2		0.0262	0.524		1
06969	Tin	7440-31-5	2.83	J	0.335	10.5		1
06970	Titanium	7440-32-6	1,200		0.0744	1.05		1
10146	Zirconium	7440-67-7	1.71	J	0.482	5.24		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0880	J	0.0775	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.92		0.0838	0.419		2
06126	Barium	7440-39-3	126		0.111	0.419		2
06127	Beryllium	7440-41-7	0.726		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.200		0.0461	0.105		2
06131	Chromium	7440-47-3	20.3		0.126	0.419		2
06132	Cobalt	7440-48-4	7.49		0.0210	0.105		2
06133	Copper	7440-50-8	10.3		0.0838	0.419		2
06135	Lead	7439-92-1	6.43		0.0107	0.210		2
06138	Molybdenum	7439-98-7	0.769		0.0524	0.105		2
06139	Nickel	7440-02-0	13.8		0.105	0.419		2
06141	Selenium	7782-49-2	0.186	J	0.0608	0.419		2
06142	Silver	7440-22-4	0.0350	J	0.0149	0.105		2
06145	Thallium	7440-28-0	0.372		0.0314	0.105		2
06148	Vanadium	7440-62-2	40.8		0.0230	0.105		2
06149	Zinc	7440-66-6	77.4		0.587	3.14		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0072	U	0.0072	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.85	U	0.85	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26	J	0.20	1.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-030-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-030-SA7-SB-4.0-5.0

LLI Sample # SW 6418467
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 09:00

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5217 SDG#: DE252-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.16	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLB026	10/04/2011 17:34	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274SLF026	10/11/2011 03:13	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11274SLF026	10/04/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLB026	10/03/2011 11:00	Olivia Arosemena	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112720029A	10/04/2011 00:02	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112720029A	09/30/2011 11:00	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	112695708008	10/04/2011 02:10	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112695708008	10/04/2011 02:10	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112695708008	10/04/2011 02:10	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708002	10/06/2011 21:43	John P Hook	1
01656	Lithium	SW-846 6010B	1	112695708008	10/04/2011 02:10	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112695708008	10/04/2011 02:10	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112695708008	10/04/2011 02:10	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112695708008	10/04/2011 02:10	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112695708008	10/04/2011 02:10	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112695708008	10/04/2011 02:10	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112695708008	10/04/2011 02:10	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112695708008	10/04/2011 02:10	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112695708008	10/04/2011 02:10	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112695708008	10/04/2011 02:10	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112691026003A	09/28/2011 11:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112691026003A	09/28/2011 11:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112691026003D	09/28/2011 11:15	Choon Y Tian	2

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Sample Description: SL-030-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-030-SA7-SB-4.0-5.0

LLI Sample # SW 6418467
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 09:00

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5217 SDG#: DE252-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	112691026003A	09/28/2011 11:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112691026003A	09/28/2011 11:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112691026003A	09/28/2011 11:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112691026003A	09/28/2011 11:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112691026003A	09/28/2011 11:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112691026003A	09/28/2011 11:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026003C	09/28/2011 11:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112691026003A	09/28/2011 11:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026003B	09/28/2011 11:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112691026003A	09/28/2011 11:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112691026003A	09/28/2011 11:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112691026003A	09/28/2011 11:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112691026003A	09/28/2011 11:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112695711005	09/28/2011 10:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708008	09/27/2011 22:28	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708003	10/04/2011 23:07	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708002	10/05/2011 22:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026003	09/27/2011 22:31	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711005	09/28/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621202B	10/01/2011 13:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11273373201B	10/01/2011 20:40	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11278243202A	10/06/2011 22:14	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621202B	09/30/2011 06:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11273373201B	09/30/2011 06:25	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11280039401B	10/07/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11278243202A	10/05/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403B	09/28/2011 21:38	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-073-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA7-SB-4.0-5.0

LLI Sample # SW 6418468
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 10:00

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5218 SDG#: DE252-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1

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Sample Description: **SL-073-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-073-SA7-SB-4.0-5.0

LLI Sample # SW 6418468
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 10:00

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5218 SDG#: DE252-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	26		6.2	19		1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	53		6.2	19		1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	16	J	6.2	19		1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7		1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		24.56
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1

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Sample Description: **SL-073-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-073-SA7-SB-4.0-5.0

LLI Sample # SW 6418468
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 10:00

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5218 SDG#: DE252-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8		1
10225	PCB-1260	11096-82-5	0.86	J	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
	Methanol was detected in the original analysis at 150 ug/kg; however the detection was not confirmed in the reextraction. The reextraction was performed outside the client specified 7 day hold time. The methanol result was reported from the reextraction.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	J	0.42	1.3		1
10199	EFH (C21-C30)	n.a.	1.9		0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	8.0		0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,100		6.25	20.7		1
07914	Boron	7440-42-8	7.57		0.372	5.17		1
01650	Calcium	7440-70-2	2,480		2.58	20.7		1
01654	Iron	7439-89-6	19,000		2.67	20.5		1
01656	Lithium	7439-93-2	26.5		0.64	2.1		1
01657	Magnesium	7439-95-4	4,370		0.455	10.3		1
06958	Manganese	7439-96-5	271		0.0372	0.517		1
10145	Phosphorus	7723-14-0	402		0.362	10.3		1
01662	Potassium	7440-09-7	3,050		11.7	51.7		1
01667	Sodium	7440-23-5	68.9	J	6.15	103		1
07968	Strontium	7440-24-6	14.9		0.0258	0.517		1
06969	Tin	7440-31-5	2.85	J	0.331	10.3		1

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Sample Description: **SL-073-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-073-SA7-SB-4.0-5.0

LLI Sample # SW 6418468
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 10:00

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5218 SDG#: DE252-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06970	Titanium	7440-32-6	1,160		0.0734	1.03		1
10146	Zirconium	7440-67-7	2.18	J	0.475	5.17		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0765	U	0.0765	0.207		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.77		0.0827	0.413		2
06126	Barium	7440-39-3	96.9		0.110	0.413		2
06127	Beryllium	7440-41-7	0.570		0.0165	0.103		2
06128	Cadmium	7440-43-9	0.142		0.0455	0.103		2
06131	Chromium	7440-47-3	16.6		0.124	0.413		2
06132	Cobalt	7440-48-4	5.98		0.0207	0.103		2
06133	Copper	7440-50-8	7.89		0.0827	0.413		2
06135	Lead	7439-92-1	6.40		0.0105	0.207		2
06138	Molybdenum	7439-98-7	0.543		0.0517	0.103		2
06139	Nickel	7440-02-0	11.0		0.103	0.413		2
06141	Selenium	7782-49-2	0.131	J	0.0599	0.413		2
06142	Silver	7440-22-4	0.0217	J	0.0147	0.103		2
06145	Thallium	7440-28-0	0.294		0.0310	0.103		2
06148	Vanadium	7440-62-2	34.4		0.0227	0.103		2
06149	Zinc	7440-66-6	66.1		0.579	3.10		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	U	0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.85	U	0.85	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.59		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-073-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA7-SB-4.0-5.0

LLI Sample # SW 6418468
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 10:00

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5218 SDG#: DE252-18

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-073-SA7-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLB026	10/04/2011 17:59	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274SLF026	10/11/2011 03:46	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11274SLF026	10/04/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLB026	10/03/2011 11:00	Olivia Arosemena	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11270B34A	09/28/2011 06:58	Linda C Pape	24.56
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201126725639	09/24/2011 13:43	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201126725639	09/24/2011 13:43	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112720029A	10/04/2011 00:21	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112720029A	09/30/2011 11:00	Olivia Arosemena	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112720046A	09/30/2011 12:28	Elizabeth J Marin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112790043A	10/07/2011 18:17	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112730031A	10/01/2011 04:22	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112740015A	10/06/2011 00:52	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112740008A	10/05/2011 12:51	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112740008A	10/03/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112740015A	10/03/2011 13:30	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112720046A	09/29/2011 22:30	Elizabeth J Marin	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112790043A	10/07/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112730031A	09/30/2011 19:20	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708008	10/04/2011 02:14	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112695708008	10/04/2011 02:14	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112695708008	10/04/2011 02:14	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708002	10/06/2011 21:46	John P Hook	1
01656	Lithium	SW-846 6010B	1	112695708008	10/04/2011 02:14	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112695708008	10/04/2011 02:14	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112695708008	10/04/2011 02:14	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112695708008	10/04/2011 02:14	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112695708008	10/04/2011 02:14	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112695708008	10/04/2011 02:14	John W Yanzuk II	1

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-073-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-073-SA7-SB-4.0-5.0

LLI Sample # SW 6418468
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 10:00

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5218 SDG#: DE252-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112695708008	10/04/2011 02:14	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112695708008	10/04/2011 02:14	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112695708008	10/04/2011 02:14	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112695708008	10/04/2011 02:14	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112691026003A	09/28/2011 11:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112691026003A	09/28/2011 11:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112691026003D	09/28/2011 11:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112691026003A	09/28/2011 11:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112691026003A	09/28/2011 11:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112691026003A	09/28/2011 11:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112691026003A	09/28/2011 11:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112691026003A	09/28/2011 11:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112691026003A	09/28/2011 11:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026003C	09/28/2011 11:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112691026003A	09/28/2011 11:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026003B	09/28/2011 11:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112691026003A	09/28/2011 11:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112691026003A	09/28/2011 11:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112691026003A	09/28/2011 11:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112691026003A	09/28/2011 11:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112695711005	09/28/2011 10:05	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708008	09/27/2011 22:28	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708003	10/04/2011 23:07	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708002	10/05/2011 22:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026003	09/27/2011 22:31	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711005	09/28/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621202B	10/01/2011 13:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11273373201B	10/01/2011 21:03	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11278243202A	10/06/2011 22:34	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621202B	09/30/2011 06:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11273373201B	09/30/2011 06:25	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11280039401B	10/07/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11278243202A	10/05/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403B	09/28/2011 21:38	Scott W Freisher	1

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Analysis Report

Sample Description: SL-076-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA7-SB-2.5-3.5

LLI Sample # SW 6418469
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 11:00

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5219 SDG#: DE252-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1

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Sample Description: SL-076-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA7-SB-2.5-3.5

LLI Sample # SW 6418469
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 11:00

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5219 SDG#: DE252-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	10	J	6.3	19		1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.7		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.7		1
10138	Pyrene	129-00-0	0.70	U	0.70	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2		27.29
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	21	U	21	70		20
10225	Aroclor 5442	12642-23-8	21	U	21	70		20
10225	Aroclor 5460	11126-42-4	120		21	70		20
10225	PCB-1016	12674-11-2	7.0	U	7.0	36		20
10225	PCB-1221	11104-28-2	7.0	U	7.0	36		20
10225	PCB-1232	11141-16-5	7.0	U	7.0	36		20
10225	PCB-1242	53469-21-9	7.0	U	7.0	36		20
10225	PCB-1248	12672-29-6	7.0	U	7.0	36		20

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA7-SB-2.5-3.5

LLI Sample # SW 6418469
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 11:00

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5219 SDG#: DE252-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	7.0	U	7.0	36		20
10225	PCB-1260	11096-82-5	8.3	U	8.3	36		20
10225	PCB-1262	37324-23-5	7.0	U	7.0	36		20
10225	PCB-1268	11100-14-4	7.0	U	7.0	36		20
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C21-C30)	n.a.	2.0		0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	6.4		0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,800		6.35	21.0		1
07914	Boron	7440-42-8	25.6	J	1.89	26.2		5
	Reporting limits were raised due to interference from the sample matrix.							
01650	Calcium	7440-70-2	8,290		2.62	21.0		1
01654	Iron	7439-89-6	18,700		2.74	21.0		1
01656	Lithium	7439-93-2	23.6		0.65	2.1		1
01657	Magnesium	7439-95-4	4,110		0.461	10.5		1
06958	Manganese	7439-96-5	353		0.0378	0.524		1
10145	Phosphorus	7723-14-0	344		0.367	10.5		1
01662	Potassium	7440-09-7	2,790		11.9	52.4		1
01667	Sodium	7440-23-5	72.8	J	6.24	105		1
07968	Strontium	7440-24-6	17.5		0.0262	0.524		1
06969	Tin	7440-31-5	3.19	J	0.336	10.5		1
06970	Titanium	7440-32-6	1,130		0.0745	1.05		1
10146	Zirconium	7440-67-7	3.86	J	0.482	5.24		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA7-SB-2.5-3.5

LLI Sample # SW 6418469
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 11:00

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5219 SDG#: DE252-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.243		0.0776	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	12.1		0.0839	0.420		2
06126	Barium	7440-39-3	122		0.111	0.420		2
06127	Beryllium	7440-41-7	0.591		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.204		0.0461	0.105		2
06131	Chromium	7440-47-3	19.9		0.126	0.420		2
06132	Cobalt	7440-48-4	14.0		0.0210	0.105		2
06133	Copper	7440-50-8	16.1		0.0839	0.420		2
06135	Lead	7439-92-1	11.4		0.0107	0.210		2
06138	Molybdenum	7439-98-7	0.876		0.0524	0.105		2
06139	Nickel	7440-02-0	14.5		0.105	0.420		2
06141	Selenium	7782-49-2	0.198	J	0.0608	0.420		2
06142	Silver	7440-22-4	0.0529	J	0.0149	0.105		2
06145	Thallium	7440-28-0	0.307		0.0315	0.105		2
06148	Vanadium	7440-62-2	37.9		0.0231	0.105		2
06149	Zinc	7440-66-6	102		0.587	3.15		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0074	J	0.0073	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.85	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.85		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.6		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-076-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA7-SB-2.5-3.5

LLI Sample # SW 6418469
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 11:00

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5219 SDG#: DE252-19

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-076-SA7-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLB026	10/04/2011 18:24	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274SLF026	10/11/2011 04:19	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11274SLF026	10/04/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLB026	10/03/2011 11:00	Olivia Arosemena	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11270B34A	09/28/2011 07:34	Linda C Pape	27.29
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201126725639	09/24/2011 13:44	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201126725639	09/24/2011 13:45	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112720029A	10/04/2011 11:08	Jessica L Miller	20
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112720029A	09/30/2011 11:00	Olivia Arosemena	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112720046A	09/30/2011 12:44	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112730031A	10/01/2011 04:35	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112740015A	10/06/2011 01:47	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112740008A	10/05/2011 13:15	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112740008A	10/03/2011 18:30	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112740015A	10/03/2011 13:30	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112720046A	09/29/2011 22:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112730031A	09/30/2011 19:20	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112695708008	10/04/2011 02:17	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112695708008	10/06/2011 16:11	Eric L Eby	5
01650	Calcium	SW-846 6010B	1	112695708008	10/04/2011 02:17	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708002	10/06/2011 21:50	John P Hook	1
01656	Lithium	SW-846 6010B	1	112695708008	10/04/2011 02:17	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112695708008	10/04/2011 02:17	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112695708008	10/04/2011 02:17	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112695708008	10/04/2011 02:17	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112695708008	10/04/2011 02:17	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112695708008	10/04/2011 02:17	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112695708008	10/04/2011 02:17	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112695708008	10/04/2011 02:17	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112695708008	10/04/2011 02:17	John W Yanzuk II	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-076-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA7-SB-2.5-3.5

LLI Sample # SW 6418469
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 11:00

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5219 SDG#: DE252-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	112695708008	10/04/2011 02:17	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112691026003A	09/28/2011 11:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112691026003A	09/28/2011 11:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112691026003D	09/28/2011 11:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112691026003A	09/28/2011 11:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112691026003A	09/28/2011 11:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112691026003A	09/28/2011 11:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112691026003A	09/28/2011 11:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112691026003A	09/28/2011 11:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112691026003A	09/28/2011 11:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026003C	09/28/2011 11:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112691026003A	09/28/2011 11:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026003B	09/28/2011 11:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112691026003A	09/28/2011 11:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112691026003A	09/28/2011 11:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112691026003A	09/28/2011 11:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112691026003A	09/28/2011 11:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112695711005	09/28/2011 10:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708008	09/27/2011 22:28	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708003	10/04/2011 23:07	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708002	10/05/2011 22:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026003	09/27/2011 22:31	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711005	09/28/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621202B	10/01/2011 13:35	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11273373201B	10/01/2011 21:26	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11278243202A	10/06/2011 22:48	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621202B	09/30/2011 06:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11273373201B	09/30/2011 06:25	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11280039401B	10/07/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11278243202A	10/05/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403B	09/28/2011 21:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-028-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA7-SB-4.0-5.0

LLI Sample # SW 6418470
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:18

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5220 SDG#: DE252-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-028-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA7-SB-4.0-5.0

LLI Sample # SW 6418470
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:18

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5220 SDG#: DE252-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **SL-028-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA7-SB-4.0-5.0

LLI Sample # SW 6418470
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:18

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5220 SDG#: DE252-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,500		6.43	21.3		1
07914	Boron	7440-42-8	9.97		0.383	5.32		1
01650	Calcium	7440-70-2	2,530		2.66	21.3		1
01654	Iron	7439-89-6	23,800		2.78	21.3		1
01656	Lithium	7439-93-2	25.9		0.66	2.1		1
01657	Magnesium	7439-95-4	5,020		0.468	10.6		1
06958	Manganese	7439-96-5	326		0.0383	0.532		1
10145	Phosphorus	7723-14-0	283		0.372	10.6		1
01662	Potassium	7440-09-7	2,410		12.0	53.2		1
01667	Sodium	7440-23-5	96.4	J	6.33	106		1
07968	Strontium	7440-24-6	18.1		0.0266	0.532		1
06969	Tin	7440-31-5	3.06	J	0.340	10.6		1
06970	Titanium	7440-32-6	1,380		0.0755	1.06		1
10146	Zirconium	7440-67-7	3.48	J	0.489	5.32		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.109	J	0.0802	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.62		0.0868	0.434		2
06126	Barium	7440-39-3	104		0.115	0.434		2
06127	Beryllium	7440-41-7	0.745		0.0174	0.108		2
06128	Cadmium	7440-43-9	0.0786	J	0.0477	0.108		2
06131	Chromium	7440-47-3	23.6		0.130	0.434		2
06132	Cobalt	7440-48-4	7.44		0.0217	0.108		2
06133	Copper	7440-50-8	9.88		0.0868	0.434		2
06135	Lead	7439-92-1	6.19		0.0111	0.217		2
06138	Molybdenum	7439-98-7	0.760		0.0542	0.108		2
06139	Nickel	7440-02-0	14.6		0.108	0.434		2
06141	Selenium	7782-49-2	0.0983	J	0.0629	0.434		2
06142	Silver	7440-22-4	0.0478	J	0.0154	0.108		2
06145	Thallium	7440-28-0	0.340		0.0325	0.108		2
06148	Vanadium	7440-62-2	48.4		0.0239	0.108		2
06149	Zinc	7440-66-6	60.5		0.607	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0075	U	0.0075	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.0		0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-028-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA7-SB-4.0-5.0

LLI Sample # SW 6418470
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:18

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5220 SDG#: DE252-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.95	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.2C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 6.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11274SLB026	10/04/2011 18:50	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274SLF026	10/11/2011 04:52	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11274SLF026	10/04/2011 07:15	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11274SLB026	10/03/2011 11:00	Olivia Arosemena	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112720029A	10/04/2011 00:58	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112720029A	09/30/2011 11:00	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	112695708008	10/04/2011 02:21	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112695708008	10/04/2011 02:21	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112695708008	10/04/2011 02:21	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112785708002	10/06/2011 21:54	John P Hook	1
01656	Lithium	SW-846 6010B	1	112695708008	10/04/2011 02:21	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112695708008	10/04/2011 02:21	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112695708008	10/04/2011 02:21	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112695708008	10/04/2011 02:21	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112695708008	10/04/2011 02:21	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112695708008	10/04/2011 02:21	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112695708008	10/04/2011 02:21	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112695708008	10/04/2011 02:21	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112695708008	10/04/2011 02:21	John W Yanzuk II	1

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Analysis Report

Sample Description: **SL-028-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA7-SB-4.0-5.0

LLI Sample # SW 6418470
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:18

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5220 SDG#: DE252-20

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	112695708008	10/04/2011 02:21	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112691026003A	09/28/2011 11:25	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112691026003A	09/28/2011 11:25	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112691026003D	09/28/2011 11:25	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112691026003A	09/28/2011 11:25	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112691026003A	09/28/2011 11:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112691026003A	09/28/2011 11:25	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112691026003A	09/28/2011 11:25	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112691026003A	09/28/2011 11:25	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112691026003A	09/28/2011 11:25	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112691026003C	09/28/2011 11:25	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112691026003A	09/28/2011 11:25	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112691026003B	09/28/2011 11:25	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112691026003A	09/28/2011 11:25	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112691026003A	09/28/2011 11:25	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112691026003A	09/28/2011 11:25	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112691026003A	09/28/2011 11:25	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112695711005	09/28/2011 10:07	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708008	09/27/2011 22:28	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708003	10/04/2011 23:07	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112785708002	10/05/2011 22:30	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026003	09/27/2011 22:31	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711005	09/28/2011 01:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621202B	10/01/2011 13:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11273373201B	10/01/2011 21:49	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11278243202A	10/06/2011 22:55	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621202B	09/30/2011 06:15	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11273373201B	09/30/2011 06:25	Joseph E McKenzie	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11280039401B	10/07/2011 13:15	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11278243202A	10/05/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403B	09/28/2011 21:38	Scott W Freisher	1

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Analysis Report

Sample Description: SL-028-SA7-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA7-SB-8.0-9.0

LLI Sample # SW 6418471
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:14

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5221 SDG#: DE253-13*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-028-SA7-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA7-SB-8.0-9.0

LLI Sample # SW 6418471
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:14

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5221 SDG#: DE253-13*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-028-SA7-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA7-SB-8.0-9.0

LLI Sample # SW 6418471
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:14

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5221 SDG#: DE253-13*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,400		6.41	21.2		1
07914	Boron	7440-42-8	12.4		0.382	5.30		1
01650	Calcium	7440-70-2	3,070		2.65	21.2		1
01654	Iron	7439-89-6	20,600		2.77	21.2		1
01656	Lithium	7439-93-2	25.1		0.66	2.1		1
01657	Magnesium	7439-95-4	4,920		0.466	10.6		1
06958	Manganese	7439-96-5	308		0.0382	0.530		1
10145	Phosphorus	7723-14-0	337		0.371	10.6		1
01662	Potassium	7440-09-7	2,600		12.0	53.0		1
01667	Sodium	7440-23-5	148		6.31	106		1
07968	Strontium	7440-24-6	14.7		0.0265	0.530		1
06969	Tin	7440-31-5	2.53	J	0.339	10.6		1
06970	Titanium	7440-32-6	1,400		0.0753	1.06		1
10146	Zirconium	7440-67-7	0.771	J	0.488	5.30		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0762	U	0.0762	0.206		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.27		0.0824	0.412		2
06126	Barium	7440-39-3	75.4		0.109	0.412		2
06127	Beryllium	7440-41-7	0.499		0.0165	0.103		2
06128	Cadmium	7440-43-9	0.0722	J	0.0453	0.103		2
06131	Chromium	7440-47-3	20.1		0.124	0.412		2
06132	Cobalt	7440-48-4	6.61		0.0206	0.103		2
06133	Copper	7440-50-8	8.13		0.0824	0.412		2
06135	Lead	7439-92-1	4.25		0.0105	0.206		2
06138	Molybdenum	7439-98-7	0.429		0.0515	0.103		2
06139	Nickel	7440-02-0	11.7		0.103	0.412		2
06141	Selenium	7782-49-2	0.0969	J	0.0597	0.412		2
06142	Silver	7440-22-4	0.0176	J	0.0146	0.103		2
06145	Thallium	7440-28-0	0.272		0.0309	0.103		2
06148	Vanadium	7440-62-2	38.8		0.0227	0.103		2
06149	Zinc	7440-66-6	52.8		0.577	3.09		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0072	U	0.0072	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.0		0.86	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-028-SA7-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA7-SB-8.0-9.0

LLI Sample # SW 6418471
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:14

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5221 SDG#: DE253-13*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.26		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.5		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.2C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 6.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11277SLC026	10/06/2011 06:10	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274SLG026	10/10/2011 06:51	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11274SLG026	10/04/2011 07:30	Katheryne V Sponheimer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11277SLC026	10/05/2011 07:35	Katheryne V Sponheimer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112720029A	10/04/2011 01:17	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112720029A	09/30/2011 11:00	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	112695708005	10/03/2011 09:09	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112695708005	10/03/2011 09:09	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112695708005	10/03/2011 09:09	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112695708005	10/03/2011 09:09	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112695708005	10/03/2011 09:09	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112695708005	10/03/2011 09:09	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112695708005	10/03/2011 09:09	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-028-SA7-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA7-SB-8.0-9.0

LLI Sample # SW 6418471
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:14

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5221 SDG#: DE253-13*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	112695708005	10/03/2011 09:09	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112695708005	10/03/2011 09:09	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112695708005	10/03/2011 09:09	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112695708005	10/03/2011 09:09	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112695708005	10/03/2011 09:09	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112775708002	10/05/2011 09:42	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112695708005	10/03/2011 09:09	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112691026001A	09/27/2011 22:26	David K Beck	2
06125	Arsenic	SW-846 6020	1	112691026001A	09/27/2011 22:26	David K Beck	2
06126	Barium	SW-846 6020	1	112691026001D	09/27/2011 22:26	David K Beck	2
06127	Beryllium	SW-846 6020	1	112691026001A	09/27/2011 22:26	David K Beck	2
06128	Cadmium	SW-846 6020	1	112691026001A	09/27/2011 22:26	David K Beck	2
06131	Chromium	SW-846 6020	1	112691026001A	09/27/2011 22:26	David K Beck	2
06132	Cobalt	SW-846 6020	1	112691026001A	09/27/2011 22:26	David K Beck	2
06133	Copper	SW-846 6020	1	112691026001A	09/27/2011 22:26	David K Beck	2
06135	Lead	SW-846 6020	1	112691026001A	09/27/2011 22:26	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112691026001C	09/27/2011 22:26	David K Beck	2
06139	Nickel	SW-846 6020	1	112691026001A	09/27/2011 22:26	David K Beck	2
06141	Selenium	SW-846 6020	1	112691026001B	09/27/2011 22:26	David K Beck	2
06142	Silver	SW-846 6020	1	112691026001A	09/27/2011 22:26	David K Beck	2
06145	Thallium	SW-846 6020	1	112691026001A	09/27/2011 22:26	David K Beck	2
06148	Vanadium	SW-846 6020	1	112691026001A	09/27/2011 22:26	David K Beck	2
06149	Zinc	SW-846 6020	1	112691026001A	09/27/2011 22:26	David K Beck	2
00159	Mercury	SW-846 7471A	1	112695711003	09/27/2011 19:49	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112695708005	09/27/2011 12:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112775708002	10/04/2011 13:57	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112775708002	10/04/2011 22:40	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112691026001	09/27/2011 12:48	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112695711003	09/27/2011 14:14	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11273621201B	10/01/2011 05:44	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621201A	10/05/2011 15:33	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11278243201A	10/06/2011 21:57	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11273621201B	09/30/2011 05:40	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621201A	10/04/2011 08:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11283039401A	10/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11278243201A	10/05/2011 13:05	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403B	09/28/2011 21:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **TB-092311 Water**
SSFL Area IV Collocated Soil Sampling
TB-092311

LLI Sample # WW 6418472
LLI Group # 1268211
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 08:00

Submitted: 09/24/2011 09:00
Reported: 10/27/2011 13:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5222 SDG#: DE252-22TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.2C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 6.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11277B20A	10/05/2011 13:38	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11277B20A	10/05/2011 13:38	Marie D John	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268211
Reported: 10/27/11 at 01:50 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11274SLB026	Sample number(s): 6418446-6418448,6418452-6418470									
Acenaphthene	17	U	17.	170	ug/kg	90		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	96		75-122		
Aniline	170 U		170.	500	ug/kg	77		20-115		
Anthracene	17	U	17.	170	ug/kg	93		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	50		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	89		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	92		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	96		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	91		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	91		67-125		
Benzoic acid	170 U		170.	500	ug/kg	70		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	87		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	88		73-114		
Butylbenzylphthalate	17	U	17.	170	ug/kg	93		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	96		79-112		
Carbazole	17	U	17.	170	ug/kg	93		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	97		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	69		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	86		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	85		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	77		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	86		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	89		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	86		74-115		
Chrysene	17	U	17.	170	ug/kg	84		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	93		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	89		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	80		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	80		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	77		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	65		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	91		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	96		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	92		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	90		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	93		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	80		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	71		18-133		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268211
Reported: 10/27/11 at 01:50 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	96		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	102		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	91		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	93		75-117		
Fluoranthene	17	U	17.	170	ug/kg	98		78-116		
Fluorene	17	U	17.	170	ug/kg	93		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	86		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	82		65-117		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	81		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	82		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	94		64-119		
Isophorone	17	U	17.	170	ug/kg	87		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	85		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	88		69-109		
2-Methylphenol	33	U	33.	170	ug/kg	89		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	86		66-117		
Naphthalene	17	U	17.	170	ug/kg	85		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	89		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	91		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	74		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	89		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	93		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	87		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	79		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	73		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	91		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	92		62-137		
Pentachlorophenol	170	U	170.	500	ug/kg	77		51-117		
Phenanthrene	17	U	17.	170	ug/kg	90		77-113		
Phenol	17	U	17.	170	ug/kg	88		58-112		
Pyrene	17	U	17.	170	ug/kg	86		75-115		
Tetralin	170	U	170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	84		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	94		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	95		78-111		
Batch number: 11274SLE026	Sample number(s): 6418458,6418463-6418466									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	96		70-130		
Batch number: 11274SLF026	Sample number(s): 6418446-6418448,6418452-6418470									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	90		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	83		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	89		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	99		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	101		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	102		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	100		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	111		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	104		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	97		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	101		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	99		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	102		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	96		79-121		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268211
Reported: 10/27/11 at 01:50 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	99		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	97		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	99		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	100		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	86		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	84		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	86		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	81		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	117		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	91		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	104		72-119		
Batch number: 11274SLG026	Sample number(s): 6418471									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	97		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	89		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	94		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	96		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	98		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	106		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	101		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	102		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	103		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	106		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	97		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	103		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	97		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	98		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	105		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	100		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	97		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	101		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	85		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	85		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	86		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	79		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	109		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	90		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	93		72-119		
Batch number: 11277SLC026	Sample number(s): 6418471									
Aniline	170 U		170.	500	ug/kg	62		20-115		
Benzidine	1,200 U		1,200.	3,300	ug/kg	45		15-121		
Benzoic acid	170 U		170.	500	ug/kg	68		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	88		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	96		73-114		
Carbazole	17	U	17.	170	ug/kg	106		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	99		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	57		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	92		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	87		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	79		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	95		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	91		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	89		74-115		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268211
Reported: 10/27/11 at 01:50 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dibenzofuran	17	U	17.	170	ug/kg	95		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	81		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	81		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	76		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	62		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	95		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	97		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	100		83-120		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	43*		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	19		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	99		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	106		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	103		71-125		
Hexachlorobenzene	17	U	17.	170	ug/kg	92		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	81		65-117		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	78		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	80		61-109		
Isophorone	17	U	17.	170	ug/kg	94		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	90		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	86		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	94		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	90		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	73		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	96		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	98		76-111		
4-Nitrophenol	170 U		170.	500	ug/kg	90		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	80		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	104		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	80		51-117		
Phenol	17	U	17.	170	ug/kg	86		58-112		
Tetralin	170 U		170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	86		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	99		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	101		78-111		
Batch number: 11270B34A	Sample number(s): 6418468-6418469									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	72	72	67-119	1	30
Batch number: 11277B20A	Sample number(s): 6418472									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	100	75-135	0	30
Batch number: 112690017A	Sample number(s): 6418458,6418463-6418466									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	104		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	101		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	76	85	54-134	12	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	75	85	54-134	12	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	106		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	96		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	103		80-120		
HMX	100 U		100.	300	ug/kg	89		74-130		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268211
Reported: 10/27/11 at 01:50 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Nitrobenzene	40	U	40.	120	ug/kg	97		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	84		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	98		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	104		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	97		80-120		
PETN	800 U		800.	2,400	ug/kg	99		80-120		
RDX	50	U	50.	120	ug/kg	101		75-131		
Tetryl	61	U	61.	120	ug/kg	107		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	103		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	103		80-120		
Batch number: 112670064A	Sample number(s): 6418458,6418463-6418466									
20a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	98		80-126		
Batch number: 112700013A	Sample number(s): 6418446-6418448,6418450-6418466									
2,4-D	1.2	U	1.2	3.6	ug/kg	104		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	69		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	95		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	96		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	10		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	123		62-170		
MCPA	76	U	76.	250	ug/kg	138*		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	66		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	93		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	75		68-114		
Batch number: 112720029A	Sample number(s): 6418446-6418448,6418450-6418471									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	73	74	36-106	1	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	88		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	99		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112730023A	Sample number(s): 6418446-6418448,6418452-6418466									
Aldrin	0.066	U	0.066	0.17	ug/kg	88		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	76		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	91		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	82		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	103		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	106		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	100		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	100		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	96		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	71		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	94		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	105		72-138		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268211
Reported: 10/27/11 at 01:50 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Endrin	0.066	U	0.066	0.34	ug/kg	94		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	89		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	100		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	82		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	94		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	103		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 112840037A	Sample number(s): 6418450-6418451									
Aldrin	0.066	U	0.066	0.17	ug/kg	70		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	65		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	97		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	74		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	127		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	117		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	123		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	103		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	94		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	88		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	112		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	122		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	96		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	92		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	115		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	71		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	88		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	143*		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 112720046A	Sample number(s): 6418446-6418448,6418450-6418455,6418458-6418466,6418468-6418469									
Ethanol	100 U		100.	500	ug/kg	106		71-129		
Isopropanol	100 U		100.	500	ug/kg	97		75-125		
Methanol	100 U		100.	500	ug/kg	117		68-129		
Batch number: 112730031A	Sample number(s): 6418446-6418448,6418452-6418455,6418458-6418466,6418468-6418469									
Diethylene glycol	5.0	U	5.0	10	mg/kg	94		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	93		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	82		67-131		
Batch number: 112790043A	Sample number(s): 6418468									
Methanol	100 U		100.	500	ug/kg	97		68-129		
Batch number: 112740008A	Sample number(s): 6418446-6418448,6418450-6418455,6418458,6418460-6418461,6418463,6418466,6418468-6418469									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	100		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	105		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	113		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	100		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	89		49-107		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268211
Reported: 10/27/11 at 01:50 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 112740015A	Sample number(s): 6418446-6418448,6418450-6418455,6418458-6418466,6418468-6418469									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	85		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	88		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	86		69-109		
Batch number: 112790036A	Sample number(s): 6418459,6418462,6418464-6418465									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	101		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	106		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	103		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	102		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	87		49-107		
Batch number: 112691026001A	Sample number(s): 6418471									
Antimony	0.0733	U	0.0733	0.198	mg/kg	65		10-224		
Arsenic	0.0792	U	0.0792	0.396	mg/kg	102		78-122		
Beryllium	0.0158	U	0.0158	0.0990	mg/kg	105		80-120		
Cadmium	0.0436	U	0.0436	0.0990	mg/kg	101		81-119		
Chromium	0.119	U	0.119	0.396	mg/kg	108		77-123		
Cobalt	0.0198	U	0.0198	0.0990	mg/kg	103		80-119		
Copper	0.0792	U	0.0792	0.396	mg/kg	106		78-122		
Lead	0.0329	J	0.0101	0.198	mg/kg	102		77-123		
Nickel	0.0990	U	0.0990	0.396	mg/kg	103		80-120		
Silver	0.0141	U	0.0141	0.0990	mg/kg	104		66-134		
Thallium	0.0297	U	0.0297	0.0990	mg/kg	103		75-124		
Vanadium	0.0218	U	0.0218	0.0990	mg/kg	112		76-124		
Zinc	0.554	U	0.554	2.97	mg/kg	102		79-121		
Batch number: 112691026001B	Sample number(s): 6418471									
Selenium	0.0574	U	0.0574	0.396	mg/kg	103		77-123		
Batch number: 112691026001C	Sample number(s): 6418471									
Molybdenum	0.0495	U	0.0495	0.0990	mg/kg	104		76-123		
Batch number: 112691026001D	Sample number(s): 6418471									
Barium	0.105	U	0.105	0.396	mg/kg	103		80-120		
Batch number: 112691026003A	Sample number(s): 6418446-6418449,6418452-6418470									
Antimony	0.0740	U	0.0740	0.200	mg/kg	101		10-224		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	106		78-122		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	108		80-120		
Cadmium	0.0440	U	0.0440	0.100	mg/kg	107		81-119		
Chromium	0.120	U	0.120	0.400	mg/kg	120		77-123		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	107		80-119		
Copper	0.0800	U	0.0800	0.400	mg/kg	113		78-122		
Lead	0.0102	U	0.0102	0.200	mg/kg	105		77-123		
Nickel	0.100	U	0.100	0.400	mg/kg	112		80-120		
Silver	0.0142	U	0.0142	0.100	mg/kg	108		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	106		75-124		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	124		76-124		
Zinc	0.560	U	0.560	3.00	mg/kg	110		79-121		
Batch number: 112691026003B	Sample number(s): 6418446-6418449,6418452-6418470									
Selenium	0.0580	U	0.0580	0.400	mg/kg	108		77-123		
Batch number: 112691026003C	Sample number(s): 6418446-6418449,6418452-6418470									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	109		76-123		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268211
Reported: 10/27/11 at 01:50 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 112691026003D	Sample number(s): 6418446-6418449,6418452-6418470									
Barium	0.106	U	0.106	0.400	mg/kg	111		80-120		
Batch number: 112695708005	Sample number(s): 6418471									
Aluminum	5.87	U	5.87	19.4	mg/kg	138		42-158		
Boron	0.350	U	0.350	4.85	mg/kg	108		66-134		
Calcium	3.28	J	2.43	19.4	mg/kg	102		79-121		
Iron	3.68	J	2.53	19.4	mg/kg	120		51-149		
Lithium	0.60	U	0.60	1.9	mg/kg	100		80-120		
Magnesium	0.427	U	0.427	9.71	mg/kg	117		64-136		
Manganese	0.0350	U	0.0350	0.485	mg/kg	97		78-122		
Phosphorus	1.15	J	0.340	9.71	mg/kg	103		80-120		
Potassium	11.0	U	11.0	48.5	mg/kg	112		69-131		
Sodium	5.78	U	5.78	97.1	mg/kg	108		71-129		
Strontium	0.0243	U	0.0243	0.485	mg/kg	102		81-119		
Tin	1.39	J	0.311	9.71	mg/kg	95		74-126		
Zirconium	0.447	U	0.447	4.85	mg/kg	101		80-120		
Batch number: 112695708008	Sample number(s): 6418446-6418449,6418452-6418470									
Aluminum	6.05	U	6.05	20.0	mg/kg	157		42-158		
Boron	0.360	U	0.360	5.00	mg/kg	110		66-134		
Calcium	5.95	J	2.50	20.0	mg/kg	106		79-121		
Lithium	0.62	U	0.62	2.0	mg/kg	97		80-120		
Magnesium	0.440	U	0.440	10.0	mg/kg	132		64-136		
Manganese	0.0360	U	0.0360	0.500	mg/kg	102		78-122		
Phosphorus	1.28	J	0.350	10.0	mg/kg	102		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	128		69-131		
Sodium	5.95	U	5.95	100	mg/kg	118		71-129		
Strontium	0.0380	J	0.0250	0.500	mg/kg	108		81-119		
Tin	1.52	J	0.320	10.0	mg/kg	101		74-126		
Titanium	0.0710	U	0.0710	1.00	mg/kg	105		80-120		
Zirconium	0.460	U	0.460	5.00	mg/kg	102		80-120		
Batch number: 112695711003	Sample number(s): 6418471									
Mercury	0.0066	U	0.0066	0.0936	mg/kg	95		72-128		
Batch number: 112695711005	Sample number(s): 6418446-6418449,6418452-6418470									
Mercury	0.0066	U	0.0066	0.0942	mg/kg	103		72-128		
Batch number: 112775708002	Sample number(s): 6418471									
Titanium	0.0840	J	0.0710	1.00	mg/kg	106		80-120		
Batch number: 112785708002	Sample number(s): 6418446-6418449,6418452-6418470									
Iron	2.98	J	2.61	20.0	mg/kg	106		57-110		
Batch number: 11273373201A	Sample number(s): 6418446-6418447,6418449,6418452-6418458,6418460									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	105		85-115		
Batch number: 11273373201B	Sample number(s): 6418461-6418470									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	105		85-115		
Batch number: 11273621201B	Sample number(s): 6418471									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	99		90-110		
Batch number: 11273621202A	Sample number(s): 6418446-6418447,6418449,6418452-6418460									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	103		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	105		90-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268211
Reported: 10/27/11 at 01:50 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11273621202B	Sample number(s): 6418461-6418470									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	103		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	105		90-110		
Batch number: 11277621201A	Sample number(s): 6418471									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	114		85-115		
Batch number: 11278102201A	Sample number(s): 6418446-6418447,6418449,6418452-6418455,6418458-6418462									
16a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	99		80-120		
Batch number: 11278102201B	Sample number(s): 6418463-6418466									
16a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	99		80-120		
Batch number: 11278243201A	Sample number(s): 6418471									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	90		80-120		
Batch number: 11278243202A	Sample number(s): 6418446-6418447,6418449,6418452-6418470									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	83		80-120		
Batch number: 11285285202A	Sample number(s): 6418459									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	93		85-115		
Batch number: 11280039401A	Sample number(s): 6418446,6418449,6418452-6418459									
17a pH by 9045C						100		95-105		
Batch number: 11280039401B	Sample number(s): 6418460-6418470									
17a pH by 9045C						100		95-105		
Batch number: 11283039401A	Sample number(s): 6418471									
17a pH by 9045C						100		95-105		
Batch number: 11271162403A	Sample number(s): 6418446-6418450,6418452-6418457									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Batch number: 11271162403B	Sample number(s): 6418459-6418462,6418467-6418471									
Moisture Content by 160.3						100		80-120		
Batch number: 11284162402A	Sample number(s): 6418458,6418463-6418466									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11274SLB026	Sample number(s): 6418446-6418448,6418452-6418470 UNSPK: 6418446								
Acenaphthene	91	94	75-115	3	30				
Acenaphthylene	97	102	81-110	5	30				
Aniline	71	70	18-116	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268211
Reported: 10/27/11 at 01:50 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Anthracene	97	101	75-115	4	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	92	95	65-122	4	30				
Benzo(a)pyrene	95	101	57-126	5	30				
Benzo(b)fluoranthene	103	103	59-125	0	30				
Benzo(g,h,i)perylene	94	96	59-127	2	30				
Benzo(k)fluoranthene	95	97	56-132	2	30				
Benzoic acid	17	14	10-173	16	30				
Benzyl alcohol	94	96	67-115	2	30				
4-Bromophenyl-phenylether	93	99	67-129	7	30				
Butylbenzylphthalate	96	99	73-134	3	30				
Di-n-butylphthalate	99	101	67-123	2	30				
Carbazole	95	98	64-120	3	30				
4-Chloro-3-methylphenol	103	101	62-122	2	30				
4-Chloroaniline	74	70	13-107	5	30				
bis(2-Chloroethoxy)methane	94	92	75-104	3	30				
bis(2-Chloroethyl)ether	93	92	60-116	1	30				
bis(2-Chloroisopropyl)ether	84	87	55-142	3	30				
2-Chloronaphthalene	84	90	50-141	7	30				
2-Chlorophenol	97	99	73-121	3	30				
4-Chlorophenyl-phenylether	85	91	80-109	6	30				
Chrysene	88	91	62-128	3	30				
Dibenz(a,h)anthracene	96	100	65-125	5	30				
Dibenzofuran	88	92	71-112	4	30				
1,2-Dichlorobenzene	86	86	66-108	1	30				
1,3-Dichlorobenzene	83	85	63-109	3	30				
1,4-Dichlorobenzene	82	84	58-108	2	30				
3,3'-Dichlorobenzidine	64	64	28-109	1	30				
2,4-Dichlorophenol	98	97	66-123	0	30				
Diethylphthalate	92	96	66-118	5	30				
2,4-Dimethylphenol	101	100	68-118	1	30				
3,5-Dimethylphenol	99	96	71-127	3	30				
Dimethylphthalate	91	95	64-118	5	30				
4,6-Dinitro-2-methylphenol	61	56	11-126	8	30				
2,4-Dinitrophenol	22	17*	20-143	26	30				
2,4-Dinitrotoluene	93	95	56-129	2	30				
2,6-Dinitrotoluene	98	102	69-123	4	30				
1,2-Diphenylhydrazine	97	102	71-129	5	30				
bis(2-Ethylhexyl)phthalate	95	97	63-122	1	30				
Fluoranthene	100	102	73-112	1	30				
Fluorene	93	98	63-121	5	30				
Hexachlorobenzene	88	90	77-114	2	30				
Hexachlorobutadiene	86	84	62-120	3	30				
Hexachlorocyclopentadiene	81	87	10-153	7	30				
Hexachloroethane	86	85	57-109	1	30				
Indeno(1,2,3-cd)pyrene	97	101	61-126	5	30				
Isophorone	95	93	73-102	2	30				
1-Methylnaphthalene	93	91	64-122	3	30				
2-Methylnaphthalene	97	95	76-114	2	30				
2-Methylphenol	97	97	75-111	1	30				
4-Methylphenol	94	95	59-123	1	30				
Naphthalene	92	91	72-116	1	30				
2-Nitroaniline	89	94	67-125	5	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268211
Reported: 10/27/11 at 01:50 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
3-Nitroaniline	90	92	59-122	2	30				
4-Nitroaniline	68	68	41-109	0	30				
Nitrobenzene	94	94	57-125	0	30				
2-Nitrophenol	100	101	56-127	0	30				
4-Nitrophenol	86	87	37-129	1	30				
N-Nitroso-di-n-propylamine	84	85	60-116	1	30				
N-Nitrosodimethylamine	83	84	47-116	0	30				
N-Nitrosodiphenylamine	97	102	71-122	6	30				
Di-n-octylphthalate	98	102	56-126	4	30				
Pentachlorophenol	79	74	28-127	7	30				
Phenanthrene	96	98	65-125	2	30				
Phenol	93	96	58-126	2	30				
Pyrene	92	95	74-126	3	30				
1,2,4-Trichlorobenzene	89	87	72-115	3	30				
2,4,5-Trichlorophenol	91	96	58-129	6	30				
2,4,6-Trichlorophenol	93	100	56-134	7	30				
Batch number: 11274SLE026	Sample number(s): 6418458,6418463-6418466 UNSPK: P419519								
N-Nitrosodimethylamine	87	90	70-130	3	30				
Batch number: 11274SLF026	Sample number(s): 6418446-6418448,6418452-6418470 UNSPK: 6418446								
Acenaphthene	87	89	63-105	1	30				
Acenaphthylene	81	82	67-114	1	30				
Anthracene	91	92	73-115	1	30				
Benzo(a)anthracene	106	102	59-128	4	30				
Benzo(a)pyrene	110	108	58-142	3	30				
Benzo(b)fluoranthene	113	107	54-163	6	30				
Benzo(g,h,i)perylene	93	89	33-141	5	30				
Benzo(k)fluoranthene	112	110	57-153	3	30				
Butylbenzylphthalate	110	111	57-173	0	30				
Di-n-butylphthalate	102	102	65-148	1	30				
Chrysene	103	102	67-123	1	30				
Dibenz(a,h)anthracene	94	92	22-133	2	30				
Diethylphthalate	105	103	70-136	3	30				
Dimethylphthalate	96	96	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	82	81	39-167	1	30				
Fluoranthene	100	100	51-149	1	30				
Fluorene	101	101	66-122	0	30				
Indeno(1,2,3-cd)pyrene	95	93	21-143	3	30				
1-Methylnaphthalene	85	86	72-123	1	30				
2-Methylnaphthalene	83	85	64-103	1	30				
Naphthalene	86	87	61-102	1	30				
N-Nitrosodimethylamine	77	80	48-113	3	30				
Di-n-octylphthalate	122	126	40-192	2	30				
Phenanthrene	90	90	62-122	1	30				
Pyrene	107	106	51-131	2	30				
Batch number: 11274SLG026	Sample number(s): 6418471 UNSPK: P419491								
Acenaphthene	93	93	63-105	0	30				
Acenaphthylene	87	93	67-114	6	30				
Anthracene	94	99	73-115	5	30				
Benzo(a)anthracene	95	98	59-128	3	30				
Benzo(a)pyrene	101	100	58-142	1	30				

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Quality Control Summary

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Reported: 10/27/11 at 01:50 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(b)fluoranthene	96	94	54-163	2	30				
Benzo(g,h,i)perylene	66	71	33-141	8	30				
Benzo(k)fluoranthene	111	107	57-153	4	30				
Butylbenzylphthalate	138	123	57-173	12	30				
Di-n-butylphthalate	114	115	65-148	1	30				
Chrysene	99	96	67-123	4	30				
Dibenz(a,h)anthracene	73	82	22-133	12	30				
Diethylphthalate	94	99	70-136	6	30				
Dimethylphthalate	98	101	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	197*	153	39-167	21	30				
Fluoranthene	113	103	51-149	9	30				
Fluorene	94	100	66-122	6	30				
Indeno(1,2,3-cd)pyrene	73	80	21-143	8	30				
1-Methylnaphthalene	87	89	72-123	3	30				
2-Methylnaphthalene	87	89	64-103	2	30				
Naphthalene	87	90	61-102	3	30				
N-Nitrosodimethylamine	83	87	48-113	5	30				
Di-n-octylphthalate	157	124	40-192	21	30				
Phenanthrene	95	94	62-122	2	30				
Pyrene	101	93	51-131	9	30				
Batch number: 11277SLC026	Sample number(s): 6418471 UNSPK: P419491								
Aniline	61	62	18-116	3	30				
Benzidine	0*	0*	35-141	0	30				
Benzoic acid	57	40	10-173	34*	30				
Benzyl alcohol	98	95	67-115	2	30				
4-Bromophenyl-phenylether	102	98	67-129	3	30				
Carbazole	104	100	64-120	3	30				
4-Chloro-3-methylphenol	98	99	62-122	2	30				
4-Chloroaniline	41	38	13-107	7	30				
bis(2-Chloroethoxy)methane	93	91	75-104	2	30				
bis(2-Chloroethyl)ether	90	89	60-116	1	30				
bis(2-Chloroisopropyl)ether	84	81	55-142	2	30				
2-Chloronaphthalene	88	81	50-141	8	30				
2-Chlorophenol	99	98	73-121	0	30				
4-Chlorophenyl-phenylether	94	87	80-109	6	30				
Dibenzofuran	98	93	71-112	4	30				
1,2-Dichlorobenzene	82	83	66-108	3	30				
1,3-Dichlorobenzene	81	82	63-109	3	30				
1,4-Dichlorobenzene	80	81	58-108	3	30				
3,3'-Dichlorobenzidine	62	65	28-109	6	30				
2,4-Dichlorophenol	97	95	66-123	1	30				
2,4-Dimethylphenol	101	97	68-118	2	30				
3,5-Dimethylphenol	97	95	71-127	0	30				
4,6-Dinitro-2-methylphenol	63	55	11-126	12	30				
2,4-Dinitrophenol	34	23	20-143	36*	30				
2,4-Dinitrotoluene	92	87	56-129	5	30				
2,6-Dinitrotoluene	99	97	69-123	1	30				
1,2-Diphenylhydrazine	109	106	71-129	2	30				
Hexachlorobenzene	93	92	77-114	0	30				
Hexachlorobutadiene	84	83	62-120	0	30				
Hexachlorocyclopentadiene	49	42	10-153	13	30				
Hexachloroethane	74	77	57-109	5	30				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Isophorone	94	93	73-102	0	30				
2-Methylphenol	99	96	75-111	1	30				
4-Methylphenol	94	88	59-123	5	30				
2-Nitroaniline	96	90	67-125	6	30				
3-Nitroaniline	91	86	59-122	5	30				
4-Nitroaniline	82	67	41-109	19	30				
Nitrobenzene	94	98	57-125	5	30				
2-Nitrophenol	97	97	56-127	2	30				
4-Nitrophenol	92	86	37-129	6	30				
N-Nitroso-di-n-propylamine	86	86	60-116	2	30				
N-Nitrosodiphenylamine	110	105	71-122	3	30				
Pentachlorophenol	46	68	28-127	39*	30				
Phenol	95	92	58-126	2	30				
1,2,4-Trichlorobenzene	87	89	72-115	3	30				
2,4,5-Trichlorophenol	98	94	58-129	2	30				
2,4,6-Trichlorophenol	109	98	56-134	10	30				
Batch number: 112690017A	Sample number(s): 6418458,6418463-6418466 UNSPK: P414168								
4-Amino-2,6-Dinitrotoluene	107	113	80-127	6	50				
2-Amino-4,6-Dinitrotoluene	105	114	80-137	7	50				
1,3-Dinitrobenzene	109	117	38-166	7	50				
2,4-Dinitrotoluene	100	108	80-131	8	50				
2,6-Dinitrotoluene	104	111	80-127	6	50				
HMX	91	97	63-128	6	50				
Nitrobenzene	101	106	80-125	5	50				
Nitroglycerin	98	104	80-120	7	50				
2-Nitrotoluene	101	108	80-122	7	50				
3-Nitrotoluene	107	115	72-119	7	50				
4-Nitrotoluene	100	107	80-125	7	50				
PETN	106	114	80-121	7	50				
RDX	98	106	75-129	8	50				
Tetryl	90	103	55-174	14	50				
1,3,5-Trinitrobenzene	101	109	82-126	8	50				
2,4,6-Trinitrotoluene	105	113	82-130	7	50				
Batch number: 112670064A	Sample number(s): 6418458,6418463-6418466 UNSPK: P419519								
20a Formaldehyde 8315A	105	96	80-120	9	50				
Batch number: 112700013A	Sample number(s): 6418446-6418448,6418450-6418466 UNSPK: 6418446								
2,4-D	35	32	17-180	11	35				
Dalapon	65	56	10-125	14	50				
2,4-DB	274*	288*	10-201	5	50				
Dicamba	59	64	10-190	3	50				
Dinoseb	10	11	10-46	7	35				
2,4-DP (Dichlorprop)	113	100	33-178	12	50				
MCPA	-155*	-131*	10-213	30	50				
MCPP (Mecoprop)	40	40	10-184	1	50				
2,4,5-T	59	59	10-156	0	35				
2,4,5-TP	75	72	24-141	3	35				
Batch number: 112720029A	Sample number(s): 6418446-6418448,6418450-6418471 UNSPK: 6418446								
PCB-1016	96	91	29-146	5	50				
PCB-1260	103	108	39-149	4	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268211
Reported: 10/27/11 at 01:50 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 112730023A	Sample number(s): 6418446-6418448,6418452-6418466 UNSPK: 6418446								
Aldrin	82	85	16-126	4	50				
Alpha BHC	79	76	10-129	4	50				
Beta BHC	747*	97	14-147	154*	50				
Gamma BHC - Lindane	82	79	10-140	4	50				
p,p-DDD	133	0*	16-163	200*	50				
p,p-DDE	269 (2)	468 (2)	18-161	13	50				
p,p-DDT	97	107	10-176	4	50				
Delta BHC	109	116	23-140	6	50				
Dieldrin	99	100	19-154	1	50				
Endosulfan I	91	100	16-137	9	50				
Endosulfan II	103	112	28-154	9	50				
Endosulfan Sulfate	86	54	21-160	46	50				
Endrin	88	87	11-149	2	50				
Endrin Aldehyde	88	98	10-148	11	35				
Endrin Ketone	106	162	22-165	42	50				
Heptachlor	79	82	13-126	4	50				
Heptachlor Epoxide	100	103	13-157	3	50				
Methoxychlor	101	105	32-147	4	50				
Batch number: 112840037A	Sample number(s): 6418450-6418451 UNSPK: P426110								
Aldrin	82	73	16-126	12	50				
Alpha BHC	56	56	10-129	0	50				
Beta BHC	69	69	14-147	0	50				
Gamma BHC - Lindane	56	56	10-140	0	50				
p,p-DDD	93	90	16-163	3	50				
p,p-DDE	238 (2)	75 (2)	18-161	11	50				
p,p-DDT	159 (2)	-5 (2)	10-176	23	50				
Delta BHC	1581*	188*	23-140	158*	50				
Dieldrin	94	84	19-154	12	50				
Endosulfan I	53	47	16-137	12	50				
Endosulfan II	123	100	28-154	21	50				
Endosulfan Sulfate	146	120	21-160	20	50				
Endrin	103	63	11-149	49	50				
Endrin Aldehyde	226*	174*	10-148	26	35				
Endrin Ketone	74	76	22-165	2	50				
Heptachlor	71	68	13-126	4	50				
Heptachlor Epoxide	118	103	13-157	14	50				
Methoxychlor	125	117	32-147	6	50				
Batch number: 112720046A	Sample number(s): 6418446-6418448,6418450-6418455,6418458-6418466,6418468-6418469 UNSPK: 6418446								
Ethanol	72	111	48-130	43*	20				
Isopropanol	65	102	12-149	44*	20				
Methanol	93	135	43-138	37*	20				
Batch number: 112730031A	Sample number(s): 6418446-6418448,6418452-6418455,6418458-6418466,6418468-6418469 UNSPK: 6418446								
Diethylene glycol	0*	0*	59-109	0	20				
Ethylene glycol	15*	14*	63-107	5	20				
Propylene glycol	25*	24*	63-107	3	20				

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Quality Control Summary

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Reported: 10/27/11 at 01:50 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 112790043A	Sample number(s): 6418468 UNSPK: P430028								
Methanol	89	88	43-138	1	20				
Batch number: 112740008A	Sample number(s): 6418446-6418448,6418450-6418455,6418458,6418460-6418461,6418463,6418466,6418468-6418469 UNSPK: 6418446								
EFH (C12-C14)	75	77	49-123	3	20				
EFH (C15-C20)	54	61	49-123	6	20				
EFH (C21-C30)	-6*	-12*	49-123	2	20				
EFH (C30 - C40)	-211 (2)	-41 (2)	49-123	33*	20				
EFH (C8-C11)	67	74	49-123	10	20				
Batch number: 112740015A	Sample number(s): 6418446-6418448,6418450-6418455,6418458-6418466,6418468-6418469 UNSPK: 6418446								
m-Terphenyl	88	89	75-125	1	20				
o-Terphenyl	89	90	75-125	1	20				
p-Terphenyl	88	89	75-125	2	20				
Batch number: 112790036A	Sample number(s): 6418459,6418462,6418464-6418465 UNSPK: P421299								
EFH (C12-C14)	95	101	49-123	5	20				
EFH (C15-C20)	110	91	49-123	13	20				
EFH (C21-C30)	-50*	35*	49-123	22*	20				
EFH (C30 - C40)	-175 (2)	-220 (2)	49-123	6	20				
EFH (C8-C11)	90	87	49-123	5	20				
Batch number: 112691026001A	Sample number(s): 6418471 UNSPK: P417426 BKG: P417426								
Antimony	39*	34*	75-125	8	20	0.138 J	0.0725 U	200* (1)	20
Arsenic	13*	23*	75-125	5	20	4.02	2.72	38*	20
Beryllium	85	90	75-125	6	20	0.386	0.348	10 (1)	20
Cadmium	97	102	75-125	7	20	0.0875 J	0.0761 J	14 (1)	20
Chromium	46*	56*	75-125	6	20	13.4	9.16	38*	20
Cobalt	95	97	75-125	5	20	3.87	2.86	30*	20
Copper	28*	37*	75-125	7	20	10.7	4.77	77*	20
Lead	56*	89	75-125	9	20	9.53	8.68	9	20
Nickel	-25*	-16*	75-125	6	20	16.0	4.80	108*	20
Silver	102	103	75-125	4	20	0.0138 U	0.0139 U	0 (1)	20
Thallium	91	92	75-125	2	20	0.218	0.191	13 (1)	20
Vanadium	49*	65*	75-125	6	20	22.6	18.1	22*	20
Zinc	40 (2)	102 (2)	75-125	10	20	54.9	52.3	5	20
Batch number: 112691026001B	Sample number(s): 6418471 UNSPK: P417426 BKG: P417426								
Selenium	98	100	75-125	5	20	0.127 J	0.0586 J	74* (1)	20
Batch number: 112691026001C	Sample number(s): 6418471 UNSPK: P417426 BKG: P417426								
Molybdenum	91	95	75-125	7	20	0.812	0.212	117* (1)	20
Batch number: 112691026001D	Sample number(s): 6418471 UNSPK: P417426 BKG: P417426								
Barium	59 (2)	102 (2)	75-125	6	20	62.9	58.6	7	20
Batch number: 112691026003A	Sample number(s): 6418446-6418449,6418452-6418470 UNSPK: 6418446 BKG: 6418446								
Antimony	55*	63*	75-125	12	20	0.144 J	0.166 J	14 (1)	20
Arsenic	189*	163*	75-125	6	20	4.66	5.66	19	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268211
Reported: 10/27/11 at 01:50 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Beryllium	132*	118	75-125	6	20	0.635	0.739	15	20
Cadmium	136*	129*	75-125	3	20	0.230	0.234	2 (1)	20
Chromium	149*	130*	75-125	5	20	21.2	25.0	17	20
Cobalt	141*	132*	75-125	5	20	5.83	7.75	28*	20
Copper	151*	142*	75-125	4	20	8.34	9.72	15	20
Lead	172*	147*	75-125	5	20	9.19	10.3	12	20
Nickel	159*	147*	75-125	4	20	11.5	14.1	20	20
Silver	139*	132*	75-125	4	20	0.0733 J	0.0632 J	15 (1)	20
Thallium	156*	149*	75-125	3	20	0.266	0.325	20 (1)	20
Vanadium	200*	164*	75-125	6	20	38.7	48.3	22*	20
Zinc	249 (2)	205 (2)	75-125	5	20	59.0	74.1	23*	20
Batch number: 112691026003B	Sample number(s): 6418446-6418449,6418452-6418470 UNSPK: 6418446 BKG: 6418446								
Selenium	131*	127*	75-125	2	20	0.167 J	0.221 J	28* (1)	20
Batch number: 112691026003C	Sample number(s): 6418446-6418449,6418452-6418470 UNSPK: 6418446 BKG: 6418446								
Molybdenum	141*	134*	75-125	4	20	0.533	0.636	18	20
Batch number: 112691026003D	Sample number(s): 6418446-6418449,6418452-6418470 UNSPK: 6418446 BKG: 6418446								
Barium	285 (2)	259 (2)	75-125	2	20	86.5	105	19	20
Batch number: 112695708005	Sample number(s): 6418471 UNSPK: P417426 BKG: P417426								
Aluminum	1039 (2)	1101 (2)	75-125	1	20	7,600	7,700	1	20
Boron	95	98	84-115	3	20	3.35 J	3.65 J	8 (1)	20
Calcium	136 (2)	185 (2)	75-125	8	20	1,690	1,780	5	20
Iron	2103 (2)	450 (2)	75-125	12	20	12,600	13,400	6	20
Lithium	95	99	82-114	4	20	16.8	16.6	1	20
Magnesium	195 (2)	182 (2)	75-125	1	20	2,450	2,460	0	20
Manganese	110	102	75-125	2	20	181	184	1	20
Phosphorus	122	123	75-125	0	20	300	327	9	20
Potassium	111	122	75-125	3	20	2,650	2,630	1	20
Sodium	94	97	75-125	2	20	48.8 J	50.2 J	3 (1)	20
Strontium	96	99	75-115	3	20	7.65	8.31	8	20
Tin	88	90	80-110	2	20	2.32 J	2.30 J	1 (1)	20
Zirconium	93	97	75-125	4	20	0.914 J	1.42 J	44* (1)	20
Batch number: 112695708008	Sample number(s): 6418446-6418449,6418452-6418470 UNSPK: 6418446 BKG: 6418446								
Aluminum	1613 (2)	1745 (2)	75-125	1	20	14,400	14,400	0	20
Boron	95	95	84-115	0	20	8.54	8.62	1 (1)	20
Calcium	120 (2)	144 (2)	75-125	3	20	2,770	2,710	2	20
Lithium	98	98	82-114	1	20	22.8	22.8	0	20
Magnesium	208 (2)	265 (2)	75-125	2	20	4,600	4,600	0	20
Manganese	85 (2)	97 (2)	75-125	2	20	263	264	0	20
Phosphorus	80	97	75-125	4	20	299	286	5	20
Potassium	126*	136*	75-125	2	20	2,430	2,490	3	20
Sodium	96	95	75-125	1	20	87.1 J	88.6 J	2 (1)	20
Strontium	97	97	75-115	0	20	15.2	15.3	0	20
Tin	89	89	80-110	1	20	2.86 J	2.88 J	1 (1)	20
Titanium	212 (2)	253 (2)	75-125	3	20	1,230	1,210	2	20
Zirconium	94	96	75-125	0	20	2.69 J	3.37 J	22* (1)	20

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Quality Control Summary

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Reported: 10/27/11 at 01:50 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 112695711003	Sample number(s): 6418471 UNSPK: P417430 BKG: P417430								
Mercury	89	94	65-135	2	20	0.0393 J	0.0395 J	0 (1)	20
Batch number: 112695711005	Sample number(s): 6418446-6418449,6418452-6418470 UNSPK: 6418446 BKG: 6418446								
Mercury	103	103	65-135	3	20	0.0070 J	0.0069 U	200* (1)	20
Batch number: 112775708002	Sample number(s): 6418471 UNSPK: P417426 BKG: P417426								
Titanium	79 (2)	176 (2)	75-125	9	20	971	941	3	20
Batch number: 112785708002	Sample number(s): 6418446-6418449,6418452-6418470 UNSPK: 6418446 BKG: 6418446								
Iron	-74 (2)	-192 (2)	75-125	1	20	20,600	19,200	7	20
Batch number: 11273373201A	Sample number(s): 6418446-6418447,6418449,6418452-6418458,6418460 UNSPK: 6418446 BKG: 6418446								
7a Perchlorate EPA 314.0	114		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11273373201B	Sample number(s): 6418461-6418470 UNSPK: 6418461 BKG: 6418461								
7a Perchlorate EPA 314.0	90		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11273621201B	Sample number(s): 6418471 UNSPK: P415791 BKG: P415791								
11a Anions by 300.0 - Fluoride	54*		80-120			5.3	4.8	10 (1)	20
Batch number: 11273621202A	Sample number(s): 6418446-6418447,6418449,6418452-6418460 UNSPK: 6418446 BKG: 6418446								
11a Anions by 300.0 - Fluoride	51*		80-120			4.0	3.9	2 (1)	20
11a Anions by 300.0 - Nitrate	93		80-120			2.0	2.2	9 (1)	20
Batch number: 11273621202B	Sample number(s): 6418461-6418470 UNSPK: 6418461 BKG: 6418461								
11a Anions by 300.0 - Fluoride	80		80-120			0.80 U	0.80 U	0 (1)	20
11a Anions by 300.0 - Nitrate	92		80-120			6.5	6.3	2 (1)	20
Batch number: 11277621201A	Sample number(s): 6418471 UNSPK: P419491 BKG: P419491								
7a Perchlorate EPA 314.0	115		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11278102201A	Sample number(s): 6418446-6418447,6418449,6418452-6418455,6418458-6418462 UNSPK: 6418446 BKG: 6418446								
16a Cyanide by 9012B	92		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11278102201B	Sample number(s): 6418463-6418466 UNSPK: 6418463 BKG: 6418463								
16a Cyanide by 9012B	93		75-125			0.17 U	0.18 U	0 (1)	20
Batch number: 11278243201A	Sample number(s): 6418471 UNSPK: P419491 BKG: P419491								
3a Cr VI by EPA 7199	85		75-125			0.20 U	0.20 U	0 (1)	20
Batch number: 11278243202A	Sample number(s): 6418446-6418447,6418449,6418452-6418470 UNSPK: 6418446 BKG: 6418446								
3a Cr VI by EPA 7199	85		75-125			0.20 U	0.35 J	200* (1)	20
Batch number: 11285285202A	Sample number(s): 6418459 UNSPK: P423856 BKG: P423856								
7a Perchlorate EPA 314.0	113		80-120			9.0 U	9.0 U	0 (1)	15

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Quality Control Summary

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Reported: 10/27/11 at 01:50 PM

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11280039401A	Sample number(s): 6418446,6418449,6418452-6418459					BKG: 6418446			
17a pH by 9045C						7.00	7.05	1	3
Batch number: 11280039401B	Sample number(s): 6418460-6418470					BKG: 6418468			
17a pH by 9045C						6.59	6.61	0	3
Batch number: 11283039401A	Sample number(s): 6418471					BKG: P419491			
17a pH by 9045C						6.04	6.06	0	3
Batch number: 11271162403A	Sample number(s): 6418446-6418450,6418452-6418457					BKG: 6418446			
28a Moisture Content by 160.3						1.3	1.4	6 (1)	20
Moisture Content by 160.3						1.3	1.4	6 (1)	20
Moisture Content by 160.3						1.3	1.4	6 (1)	20
Batch number: 11271162403B	Sample number(s): 6418459-6418462,6418467-6418471					BKG: 6418471			
Moisture Content by 160.3						7.5	7.3	3	20
Batch number: 11284162402A	Sample number(s): 6418458,6418463-6418466					BKG: P415790			
Moisture Content by 160.3						9.5	9.4	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11274SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6418446	87	93	63	84	80	73
6418447	93	97	87	91	83	78
6418448	94	98	91	88	89	82
6418452	74	79	75	71	71	66
6418453	91	94	69	84	84	79
6418454	90	95	82	84	84	78
6418455	103	109	86	89	93	84
6418456	104	108	93	98	99	90
6418457	102	105	92	93	95	89
6418458	97	97	81	86	88	82
6418459	104	108	90	89	95	87
6418460	90	96	79	84	87	77
6418461	99	101	94	94	96	90
6418462	103	108	97	93	99	90
6418463	97	100	88	92	96	86
6418464	104	109	85	94	95	85
6418465	99	103	84	87	94	82
6418466	102	105	87	97	99	94
6418467	96	99	76	84	86	83
6418468	98	102	77	88	89	81
6418469	92	94	68	83	80	77

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Quality Control Summary

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Reported: 10/27/11 at 01:50 PM

Surrogate Quality Control

6418470	91	94	71	84	84	81
Blank	81	85	80	79	76	73
LCS	87	90	88	84	84	76
MS	93	97	87	91	83	78
MSD	94	98	91	88	89	82
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 21a NDMA by 1625C
Batch number: 11274SLE026

	N-Nitrosodimethylamine-d6
6418458	108
6418463	97
6418464	104
6418465	92
6418466	102
Blank	120
LCS	121
MS	113
MSD	113
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11274SLF026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6418446	147*	86	93
6418447	151*	84	92
6418448	153*	83	90
6418452	105	86	87
6418453	102	84	86
6418454	93	83	89
6418455	99	86	87
6418456	107	85	83
6418457	94	83	88
6418458	121	88	87
6418459	111	87	95
6418460	106	84	90
6418461	188*	90	104
6418462	95	84	91
6418463	93	81	88
6418464	112	87	94
6418465	100	86	93
6418466	92	81	93
6418467	97	86	93
6418468	93	82	89
6418469	94	84	92
6418470	89	81	93
Blank	102	88	95
LCS	120	87	91
MS	151*	84	92
MSD	153*	83	90
Limits:	40-130	45-130	45-135

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268211
Reported: 10/27/11 at 01:50 PM

Surrogate Quality Control

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11274SLG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6418471	85	79	86
Blank	89	83	50
LCS	97	84	90
MS	103	84	88
MSD	100	84	88
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11277SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6418471	92	96	79	86	89	88
Blank	101	109	90	100	108	97
LCS	89	95	90	92	91	86
MS	97	102	87	93	98	84
MSD	96	102	81	94	92	86
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11270B34A

	Trifluorotoluene-F
6418468	94
6418469	92
Blank	102
LCS	92
LCSD	91
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11277B20A

	Trifluorotoluene-F
6418472	86
Blank	83
LCS	111
LCSD	111
Limits:	63-135

Analysis Name: 20a Formaldehyde 8315A
Batch number: 112670064A

	Butyraldehyde
6418458	96
6418463	93
6418464	90
6418465	93
6418466	89

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268211
Reported: 10/27/11 at 01:50 PM

Surrogate Quality Control

Blank	105
LCS	101
MS	99
MSD	98

Limits: 64-126

Analysis Name: 15a Energetics by 8330A
Batch number: 112690017A

	2-Nitro-m-xylene
6418458	114
6418463	120
6418464	105
6418465	118
6418466	119
Blank	113
LCS	106
LCSD	105
MS	113
MSD	107

Limits: 80-146

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 112700013A

	2,4-Dichlorophenylacetic acid
6418446	133
6418447	98
6418448	97
6418450	116
6418451	91
6418452	121
6418453	106
6418454	103
6418455	111
6418456	118
6418457	104
6418458	95
6418459	138
6418460	117
6418461	97
6418462	109
6418463	144
6418464	122
6418465	71
6418466	47
Blank	118
LCS	114
MS	98
MSD	97

Limits: 36-156

Analysis Name: 8a PCBs/PCTs by 8082

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268211
Reported: 10/27/11 at 01:50 PM

Surrogate Quality Control

Batch number: 112720029A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6418446	119	122*
6418447	104	105
6418448	98	100
6418450	95	99
6418451	113	116
6418452	98	95
6418453	116	109
6418454	99	100
6418455	99	98
6418456	88	104
6418457	101	101
6418458	103	113
6418459	123	123*
6418460	85	78
6418461	103	96
6418462	102	97
6418463	100	79
6418464	111	97
6418465	84	76
6418466	117	109
6418467	91	91
6418468	110	112
6418469	103	128*
6418470	93	94
6418471	106	103
Blank	103	103
LCS	98	99
LCSD	92	105
MS	104	105
MSD	98	100
Limits:	53-139	45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 112730023A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6418446	71	109
6418447	81	113
6418448	77	113
6418452	72	105
6418453	79	98
6418454	64	84
6418455	81	106
6418456	93	90
6418457	77	95
6418458	64	111
6418459	67	92
6418460	69	116
6418461	60	73
6418462	52	108
6418463	71	94
6418464	63	97
6418465	69	94
6418466	67	91

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268211
Reported: 10/27/11 at 01:50 PM

Surrogate Quality Control

Blank	84	102
LCS	84	113
MS	81	113
MSD	77	113
Limits:	50-130	20-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 112840037A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6418450	64	144*
6418451	58	135*
Blank	67	130*
LCS	64	129*
MS	54	83
MSD	56	80
Limits:	50-130	20-120

Analysis Name: 18a Alcohols by 8015B
Batch number: 112720046A

	Acetone
6418446	91
6418447	67
6418448	103
6418450	78
6418451	104
6418452	65
6418453	57
6418454	64
6418455	100
6418458	67
6418459	69
6418460	83
6418461	62
6418462	66
6418463	46
6418464	49
6418465	48
6418466	59
6418468	53
6418469	53
Blank	103
LCS	101
MS	67
MSD	103
Limits:	42-138

Analysis Name: 19a Glycols by 8015B
Batch number: 112730031A

	Tetramethylene glycol
6418446	72
6418447	58

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268211
Reported: 10/27/11 at 01:50 PM

Surrogate Quality Control

6418448	57
6418452	60
6418453	61
6418454	56
6418455	60
6418458	61
6418459	57
6418460	59
6418461	60
6418462	59
6418463	72
6418464	57
6418465	57
6418466	64
6418468	73
6418469	76
Blank	84
LCS	84
MS	58
MSD	57
Limits:	29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112740008A

	Chlorobenzene	Orthoterphenyl
6418446	87	95
6418447	66	76
6418448	71	78
6418450	61	67
6418451	88	97
6418452	76	87
6418453	82	95
6418454	45	53
6418455	61	69
6418458	80	93
6418460	97	113
6418461	94	112
6418463	85	97
6418466	86	107
6418468	86	96
6418469	61	70
Blank	89	96
LCS	90	95
MS	66	76
MSD	71	78
Limits:	37-125	47-145

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112740015A

	n-Triacontane-d62
6418446	67
6418447	65
6418448	65
6418450	65

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268211
Reported: 10/27/11 at 01:50 PM

Surrogate Quality Control

6418451	71
6418452	63
6418453	60
6418454	65
6418455	69
6418458	130
6418459	68
6418460	96
6418461	70
6418462	76
6418463	76
6418464	78
6418465	63
6418466	73
6418468	69
6418469	65
Blank	64
LCS	58
MS	65
MSD	65
Limits:	19-152

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112790036A

	Chlorobenzene	Orthoterphenyl
6418459	83	90
6418462	67	98
6418464	76	100
6418465	66	89
Blank	84	90
LCS	87	93
MS	90	92
MSD	86	93
Limits:	37-125	47-145

Analysis Name: 18a Alcohols by 8015B
Batch number: 112790043A

	Acetone
6418468	86
Blank	87
LCS	86
MS	81
MSD	79
Limits:	42-138

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 QP#1265211 sample#6419446-72

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 8 (SA8) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-015-SA7-SS-0.0-0.5MS	09.22.11	1505	SOIL	NONE	2-SS Sleeve			X	X																		MS/MSD
SL-015-SA7-SS-0.0-0.5MS	09.22.11	1505	SOIL	NONE	4-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		MS/MSD
SL-139-SA7-SS-0.0-0.5	09.22.11	1440	SOIL	NONE	1-SS Sleeve			X	X																		
SL-139-SA7-SS-0.0-0.5	09.22.11	1440	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-140-SA7-SS-0.0-0.5	09.22.11	1345	SOIL	NONE	1-SS Sleeve			X	X																		
SL-140-SA7-SS-0.0-0.5	09.22.11	1345	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
DUP05-SA7-QC-092211	09.22.11	1510	SOIL	NONE	1-SS Sleeve			X	X																		
DUP05-SA7-QC-092211	09.22.11	1510	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-019-SA7-SS-0.0-0.5	09.23.11	1208	SOIL	NONE	1-SS Sleeve			X	X																		
SL-019-SA7-SS-0.0-0.5	09.23.11	1208	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-025-SA7-SS-0.0-0.5	09.23.11	0810	SOIL	NONE	1-SS Sleeve			X	X																		
SL-025-SA7-SS-0.0-0.5	09.23.11	0810	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		X	X											
SL-027-SA7-SS-0.0-0.5	09.23.11	0745	SOIL	NONE	1-SS Sleeve			X	X																		
SL-027-SA7-SS-0.0-0.5	09.23.11	0745	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X											
SL-062-SA7-SS-0.0-0.5	09.23.11	0835	SOIL	NONE	1-SS Sleeve			X	X																		
SL-062-SA7-SS-0.0-0.5	09.23.11	0835	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-066-SA7-SS-0.0-0.5	09.23.11	1412	SOIL	NONE	1-SS Sleeve			X	X																		
SL-066-SA7-SS-0.0-0.5	09.23.11	1412	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-067-SA7-SS-0.0-0.5	09.23.11	1459	SOIL	NONE	1-SS Sleeve			X	X																		
SL-067-SA7-SS-0.0-0.5	09.23.11	1459	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-068-SA7-SS-0.0-0.5	09.23.11	1432	SOIL	NONE	1-SS Sleeve			X	X																		
SL-068-SA7-SS-0.0-0.5	09.23.11	1432	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-069-SA7-SS-0.0-0.5	09.23.11	1231	SOIL	NONE	1-SS Sleeve			X	X																		
SL-069-SA7-SS-0.0-0.5	09.23.11	1231	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-089-SA7-SS-0.0-0.5	09.23.11	0958	SOIL	NONE	1-SS Sleeve			X	X																		
SL-089-SA7-SS-0.0-0.5	09.23.11	0958	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-152-SA7-SS-0.0-0.5	09.23.11	1115	SOIL	NONE	1-SS Sleeve			X	X																		
SL-152-SA7-SS-0.0-0.5	09.23.11	1115	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-153-SA7-SS-0.0-0.5	09.23.11	1145	SOIL	NONE	1-SS Sleeve			X	X																		
SL-153-SA7-SS-0.0-0.5	09.23.11	1145	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-181-SA7-SS-0.0-0.5	09.23.11	1035	SOIL	NONE	1-SS Sleeve			X	X																		
SL-181-SA7-SS-0.0-0.5	09.23.11	1035	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	09/23/2011 / 1600		Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**	
		8754 3341 0851,0862,0873	

Brandy Bentley
7-24-11 900

acct# 13013 Cap# 1268211 sample# 6418446-12

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 8 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dioxonat EPA 8270	Other Instructions and Notes
SL-030-SA7-SB-4.0-5.0	09.23.11	0900	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X		X											
SL-073-SA7-SB-4.5	09.23.11	0955	SOIL	NONE	2-Encores										X											
SL-073-SA7-SB-4.0-5.0	09.23.11	1000	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X		
SL-076-SA7-SB-3.0	09.23.11	1055	SOIL	NONE	2-Encores										X											
SL-076-SA7-SB-2.5-3.5	09.23.11	1100	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X		
SL-028-SA7-SB-4.0-5.0	09.23.11	1418	SOIL	NONE	2-16 oz Jars										X											
SL-028-SA7-SB-8.0-9.0	09.23.11	1414	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
TB-092311	09.23.11	0800	WATER	NONE	2-10mL vials										X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	09/23/2011 / 1600		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8754 3341 0851,0862,0873	

Brandy Bunker
9-24-11 900

Perchlorate for [illegible] were not received with ERD's submittal for [illegible] samples NEM 9/30/11

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 13, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/24/2011
Group Number: 1268212
SDG: DX141
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-015-SA7-SS-0.0-0.5 Soil	6418473
SL-015-SA7-SS-0.0-0.5MS Soil	6418474
SL-015-SA7-SS-0.0-0.5MSD Soil	6418475
SL-139-SA7-SS-0.0-0.5 Soil	6418476
SL-140-SA7-SS-0.0-0.5 Soil	6418477
DUP05-SA7-QC-092211 Soil	6418478
SL-019-SA7-SS-0.0-0.5 Soil	6418479
SL-025-SA7-SS-0.0-0.5 Soil	6418480
SL-027-SA7-SS-0.0-0.5 Soil	6418481
SL-062-SA7-SS-0.0-0.5 Soil	6418482
SL-066-SA7-SS-0.0-0.5 Soil	6418483
SL-067-SA7-SS-0.0-0.5 Soil	6418484
SL-068-SA7-SS-0.0-0.5 Soil	6418485

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-015-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418473
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4111 SDG#: DX141-11BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-015-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418473
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4111 SDG#: DX141-11BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0372	U	0.0372	0.967	1
11031	12378-PeCDD	40321-76-4	0.0368	U	0.0368	4.83	1
11031	123478-HxCDD	39227-28-6	0.0792	JQ	0.0485	4.83	1
11031	123678-HxCDD	57653-85-7	0.393	JQ	0.0497	4.83	1
11031	123789-HxCDD	19408-74-3	0.289	JBQ	0.0467	4.83	1
11031	1234678-HpCDD	35822-46-9	8.65	B	0.0622	4.83	1
11031	OCDD	3268-87-9	113	B	0.0754	9.67	1
11031	2378-TCDF	51207-31-9	0.0680	JQ	0.0673	0.967	1
11031	12378-PeCDF	57117-41-6	0.857	JB	0.0296	4.83	1
11031	23478-PeCDF	57117-31-4	0.172	JB	0.0331	4.83	1
11031	123478-HxCDF	70648-26-9	0.577	J	0.0434	4.83	1
11031	123678-HxCDF	57117-44-9	0.148	J	0.0325	4.83	1
11031	123789-HxCDF	72918-21-9	0.0563	U	0.0563	4.83	1
11031	234678-HxCDF	60851-34-5	0.147	JQ	0.0372	4.83	1
11031	1234678-HpCDF	67562-39-4	1.57	JB	0.0212	4.83	1
11031	1234789-HpCDF	55673-89-7	0.163	JQ	0.0562	4.83	1
11031	OCDF	39001-02-0	3.90	JBQ	0.0757	9.67	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	56	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	59	28 - 136
13C12-123789-HxCDF	47	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	43	26 - 138
13C12-OCDF	40	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-015-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418473
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4111 SDG#: DX141-11BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-015-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418473
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4111 SDG#: DX141-11BKG

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.2C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 6.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11277002	10/06/2011 22:02	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11277002	10/04/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403A	09/28/2011 21:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-015-SA7-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418474
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4111 SDG#: DX141-11MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-015-SA7-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418474
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4111 SDG#: DX141-11MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	19.7		0.0614	0.990	1
11031	12378-PeCDD	40321-76-4	99.1	B	0.0619	4.95	1
11031	123478-HxCDD	39227-28-6	98.0		0.0813	4.95	1
11031	123678-HxCDD	57653-85-7	96.2		0.0783	4.95	1
11031	123789-HxCDD	19408-74-3	97.5	B	0.0701	4.95	1
11031	1234678-HpCDD	35822-46-9	105	B	0.0851	4.95	1
11031	OCDD	3268-87-9	295	B	0.103	9.90	1
11031	2378-TCDF	51207-31-9	20.6		0.0697	0.990	1
11031	12378-PeCDF	57117-41-6	96.8	B	0.0414	4.95	1
11031	23478-PeCDF	57117-31-4	92.8	B	0.0436	4.95	1
11031	123478-HxCDF	70648-26-9	94.2		0.0935	4.95	1
11031	123678-HxCDF	57117-44-9	93.9		0.0757	4.95	1
11031	123789-HxCDF	72918-21-9	93.6		0.0909	4.95	1
11031	234678-HxCDF	60851-34-5	94.6		0.0743	4.95	1
11031	1234678-HpCDF	67562-39-4	92.2	B	0.0603	4.95	1
11031	1234789-HpCDF	55673-89-7	95.0		0.112	4.95	1
11031	OCDF	39001-02-0	194	B	0.108	9.90	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	53	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-015-SA7-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418474
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4111 SDG#: DX141-11MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-015-SA7-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418474
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4111 SDG#: DX141-11MS

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.2C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 6.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11277002	10/06/2011 22:59	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11277002	10/04/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403A	09/28/2011 21:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-015-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418475
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4111 SDG#: DX141-11MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-015-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418475
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4111 SDG#: DX141-11MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	19.7		0.0585	0.983	1
11031	12378-PeCDD	40321-76-4	99.2	B	0.0569	4.91	1
11031	123478-HxCDD	39227-28-6	98.0		0.0659	4.91	1
11031	123678-HxCDD	57653-85-7	95.2		0.0604	4.91	1
11031	123789-HxCDD	19408-74-3	95.5	B	0.0576	4.91	1
11031	1234678-HpCDD	35822-46-9	102	B	0.0759	4.91	1
11031	OCDD	3268-87-9	284	B	0.104	9.83	1
11031	2378-TCDF	51207-31-9	19.6		0.0685	0.983	1
11031	12378-PeCDF	57117-41-6	95.1	B	0.0456	4.91	1
11031	23478-PeCDF	57117-31-4	96.4	B	0.0466	4.91	1
11031	123478-HxCDF	70648-26-9	93.0		0.0902	4.91	1
11031	123678-HxCDF	57117-44-9	93.0		0.0762	4.91	1
11031	123789-HxCDF	72918-21-9	95.3		0.0893	4.91	1
11031	234678-HxCDF	60851-34-5	93.4		0.0816	4.91	1
11031	1234678-HpCDF	67562-39-4	92.8	B	0.0504	4.91	1
11031	1234789-HpCDF	55673-89-7	94.1		0.0856	4.91	1
11031	OCDF	39001-02-0	192	B	0.0919	9.83	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	59	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-015-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418475
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4111 SDG#: DX141-11MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-015-SA7-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA7-SS-0.0-0.5

LLI Sample # SW 6418475
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:05

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4111 SDG#: DX141-11MSD

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.2C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 6.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11277002	10/06/2011 23:55	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11277002	10/04/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403A	09/28/2011 21:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-139-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA7-SS-0.0-0.5

LLI Sample # SW 6418476
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 14:40

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4112 SDG#: DX141-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-139-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA7-SS-0.0-0.5

LLI Sample # SW 6418476
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 14:40

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4112 SDG#: DX141-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0606	JQ	0.0364	0.996	1
11031	12378-PeCDD	40321-76-4	0.227	JBQ	0.0375	4.98	1
11031	123478-HxCDD	39227-28-6	0.262	J	0.0474	4.98	1
11031	123678-HxCDD	57653-85-7	0.755	J	0.0445	4.98	1
11031	123789-HxCDD	19408-74-3	0.723	JB	0.0427	4.98	1
11031	1234678-HpCDD	35822-46-9	13.7	B	0.0610	4.98	1
11031	OCDD	3268-87-9	143	B	0.0676	9.96	1
11031	2378-TCDF	51207-31-9	0.114	JQ	0.0464	0.996	1
11031	12378-PeCDF	57117-41-6	0.306	JB	0.0250	4.98	1
11031	23478-PeCDF	57117-31-4	0.233	JB	0.0282	4.98	1
11031	123478-HxCDF	70648-26-9	0.278	J	0.0381	4.98	1
11031	123678-HxCDF	57117-44-9	0.135	J	0.0294	4.98	1
11031	123789-HxCDF	72918-21-9	0.0613	JQ	0.0386	4.98	1
11031	234678-HxCDF	60851-34-5	0.194	JQ	0.0317	4.98	1
11031	1234678-HpCDF	67562-39-4	1.52	JB	0.0199	4.98	1
11031	1234789-HpCDF	55673-89-7	0.107	JQ	0.0460	4.98	1
11031	OCDF	39001-02-0	3.17	JB	0.0671	9.96	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	58	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	60	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	45	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-139-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA7-SS-0.0-0.5

LLI Sample # SW 6418476
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 14:40

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4112 SDG#: DX141-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-139-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA7-SS-0.0-0.5

LLI Sample # SW 6418476
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 14:40

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4112 SDG#: DX141-12

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.2C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 6.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11277002	10/07/2011 00:52	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11277002	10/04/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403A	09/28/2011 21:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-140-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-140-SA7-SS-0.0-0.5

LLI Sample # SW 6418477
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 13:45

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4113 SDG#: DX141-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-140-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-140-SA7-SS-0.0-0.5

LLI Sample # SW 6418477
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 13:45

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4113 SDG#: DX141-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0399	U	0.0399	1.01	1
11031	12378-PeCDD	40321-76-4	0.196	JBQ	0.0341	5.07	1
11031	123478-HxCDD	39227-28-6	0.170	JQ	0.0440	5.07	1
11031	123678-HxCDD	57653-85-7	0.404	J	0.0420	5.07	1
11031	123789-HxCDD	19408-74-3	0.350	JB	0.0343	5.07	1
11031	1234678-HpCDD	35822-46-9	6.89	B	0.0507	5.07	1
11031	OCDD	3268-87-9	71.7	B	0.0603	10.1	1
11031	2378-TCDF	51207-31-9	0.0637	JQ	0.0399	1.01	1
11031	12378-PeCDF	57117-41-6	0.0328	JB	0.0200	5.07	1
11031	23478-PeCDF	57117-31-4	0.160	JB	0.0215	5.07	1
11031	123478-HxCDF	70648-26-9	0.0813	JQ	0.0485	5.07	1
11031	123678-HxCDF	57117-44-9	0.110	JQ	0.0419	5.07	1
11031	123789-HxCDF	72918-21-9	0.0309	U	0.0309	5.07	1
11031	234678-HxCDF	60851-34-5	0.110	JQ	0.0252	5.07	1
11031	1234678-HpCDF	67562-39-4	0.946	JB	0.0333	5.07	1
11031	1234789-HpCDF	55673-89-7	0.0876	JQ	0.0424	5.07	1
11031	OCDF	39001-02-0	1.95	JB	0.0666	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	60	21 - 178
13C12-123478-HxCDF	34	26 - 152
13C12-123678-HxCDF	39	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	55	28 - 143
13C12-1234789-HpCDF	51	26 - 138
13C12-OCDF	46	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-140-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-140-SA7-SS-0.0-0.5

LLI Sample # SW 6418477
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 13:45

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4113 SDG#: DX141-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-140-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-140-SA7-SS-0.0-0.5

LLI Sample # SW 6418477
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 13:45

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4113 SDG#: DX141-13

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.2C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 6.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11277002	10/07/2011 01:48	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11277002	10/04/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403A	09/28/2011 21:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP05-SA7-QC-092211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP05-SA7-QC-092211

LLI Sample # SW 6418478
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:10

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4114 SDG#: DX141-14FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP05-SA7-QC-092211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP05-SA7-QC-092211

LLI Sample # SW 6418478
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:10

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4114 SDG#: DX141-14FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0362	U	0.0362	0.995	1
11031	12378-PeCDD	40321-76-4	0.0576	JBQ	0.0307	4.98	1
11031	123478-HxCDD	39227-28-6	0.0625	JQ	0.0382	4.98	1
11031	123678-HxCDD	57653-85-7	0.289	JQ	0.0355	4.98	1
11031	123789-HxCDD	19408-74-3	0.260	JB	0.0329	4.98	1
11031	1234678-HpCDD	35822-46-9	8.25	B	0.0551	4.98	1
11031	OCDD	3268-87-9	114	B	0.0565	9.95	1
11031	2378-TCDF	51207-31-9	0.0992	JQ	0.0515	0.995	1
11031	12378-PeCDF	57117-41-6	0.658	JB	0.0279	4.98	1
11031	23478-PeCDF	57117-31-4	0.204	JBQ	0.0303	4.98	1
11031	123478-HxCDF	70648-26-9	0.443	JQ	0.0373	4.98	1
11031	123678-HxCDF	57117-44-9	0.140	J	0.0294	4.98	1
11031	123789-HxCDF	72918-21-9	0.0669	JQ	0.0384	4.98	1
11031	234678-HxCDF	60851-34-5	0.185	J	0.0308	4.98	1
11031	1234678-HpCDF	67562-39-4	1.38	JB	0.0170	4.98	1
11031	1234789-HpCDF	55673-89-7	0.172	JQ	0.0386	4.98	1
11031	OCDF	39001-02-0	3.21	JB	0.0584	9.95	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	60	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	51	26 - 138
13C12-OCDF	48	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **DUP05-SA7-QC-092211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP05-SA7-QC-092211

LLI Sample # SW 6418478
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:10

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4114 SDG#: DX141-14FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP05-SA7-QC-092211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP05-SA7-QC-092211

LLI Sample # SW 6418478
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/22/2011 15:10

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4114 SDG#: DX141-14FD

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.2C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 6.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11277002	10/07/2011 02:45	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11277002	10/04/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403A	09/28/2011 21:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-019-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-019-SA7-SS-0.0-0.5

LLI Sample # SW 6418479
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 12:08

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4115 SDG#: DX141-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-019-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-019-SA7-SS-0.0-0.5

LLI Sample # SW 6418479
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 12:08

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4115 SDG#: DX141-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0434	U	0.0434	0.993	1
11031	12378-PeCDD	40321-76-4	0.0808	JBQ	0.0360	4.97	1
11031	123478-HxCDD	39227-28-6	0.0909	JQ	0.0398	4.97	1
11031	123678-HxCDD	57653-85-7	0.235	J	0.0377	4.97	1
11031	123789-HxCDD	19408-74-3	0.225	JBQ	0.0331	4.97	1
11031	1234678-HpCDD	35822-46-9	3.69	JB	0.0448	4.97	1
11031	OCDD	3268-87-9	32.7	B	0.0542	9.93	1
11031	2378-TCDF	51207-31-9	0.0760	JQ	0.0438	0.993	1
11031	12378-PeCDF	57117-41-6	0.0959	JBQ	0.0258	4.97	1
11031	23478-PeCDF	57117-31-4	0.229	JBQ	0.0258	4.97	1
11031	123478-HxCDF	70648-26-9	0.0650	JQ	0.0256	4.97	1
11031	123678-HxCDF	57117-44-9	0.0758	JQ	0.0221	4.97	1
11031	123789-HxCDF	72918-21-9	0.0284	U	0.0284	4.97	1
11031	234678-HxCDF	60851-34-5	0.162	JQ	0.0237	4.97	1
11031	1234678-HpCDF	67562-39-4	0.619	JB	0.0213	4.97	1
11031	1234789-HpCDF	55673-89-7	0.0541	JQ	0.0387	4.97	1
11031	OCDF	39001-02-0	1.24	JBQ	0.0528	9.93	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	59	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-019-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-019-SA7-SS-0.0-0.5

LLI Sample # SW 6418479
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 12:08

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4115 SDG#: DX141-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-019-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-019-SA7-SS-0.0-0.5

LLI Sample # SW 6418479
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 12:08

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4115 SDG#: DX141-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11277002	10/07/2011 04:38	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11277002	10/04/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403A	09/28/2011 21:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-025-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA7-SS-0.0-0.5

LLI Sample # SW 6418480
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 08:10

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4116 SDG#: DX141-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-025-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA7-SS-0.0-0.5

LLI Sample # SW 6418480
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 08:10

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4116 SDG#: DX141-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.113	JQ	0.0440	0.994	1
11031	12378-PeCDD	40321-76-4	0.711	JB	0.0658	4.97	1
11031	123478-HxCDD	39227-28-6	1.49	J	0.0714	4.97	1
11031	123678-HxCDD	57653-85-7	4.40	JQ	0.0716	4.97	1
11031	123789-HxCDD	19408-74-3	2.83	JB	0.0678	4.97	1
11031	1234678-HpCDD	35822-46-9	124	B	0.121	4.97	1
11031	OCDD	3268-87-9	922	B	0.162	9.94	1
11650	2378-TCDF-Conf	51207-31-9	1.04	C	0.0666	0.994	1
11031	12378-PeCDF	57117-41-6	3.81	JB	0.0706	4.97	1
11031	23478-PeCDF	57117-31-4	2.16	JB	0.0684	4.97	1
11031	123478-HxCDF	70648-26-9	2.79	JQ	0.0618	4.97	1
11031	123678-HxCDF	57117-44-9	1.25	J	0.0527	4.97	1
11031	123789-HxCDF	72918-21-9	0.418	J	0.0680	4.97	1
11031	234678-HxCDF	60851-34-5	1.45	J	0.0572	4.97	1
11031	1234678-HpCDF	67562-39-4	22.5	B	0.0462	4.97	1
11031	1234789-HpCDF	55673-89-7	1.56	J	0.0762	4.97	1
11031	OCDF	39001-02-0	65.8	B	0.0771	9.94	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	87	25 - 164
13C12-2378-TCDF-Conf	81	24 - 169
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	91	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	89	17 - 157
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	69	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-025-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA7-SS-0.0-0.5

LLI Sample # SW 6418480
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 08:10

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4116 SDG#: DX141-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-025-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA7-SS-0.0-0.5

LLI Sample # SW 6418480
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 08:10

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4116 SDG#: DX141-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11277002	10/07/2011 10:31	Joseph D Anderson	1
11650	Dioxins/Furans in Solids-Conf	EPA 1613B	1	11277002	10/08/2011 21:13	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11277002	10/04/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403A	09/28/2011 21:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-027-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA7-SS-0.0-0.5

LLI Sample # SW 6418481
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 07:45

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4117 SDG#: DX141-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.77	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-027-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA7-SS-0.0-0.5

LLI Sample # SW 6418481
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 07:45

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4117 SDG#: DX141-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0436	JQ	0.0422	0.966	1
11031	12378-PeCDD	40321-76-4	0.337	JBQ	0.0568	4.83	1
11031	123478-HxCDD	39227-28-6	0.291	J	0.0543	4.83	1
11031	123678-HxCDD	57653-85-7	0.946	J	0.0523	4.83	1
11031	123789-HxCDD	19408-74-3	0.610	JB	0.0465	4.83	1
11031	1234678-HpCDD	35822-46-9	22.9	B	0.0729	4.83	1
11031	OCDD	3268-87-9	199	B	0.0910	9.66	1
11031	2378-TCDF	51207-31-9	0.577	J	0.121	0.966	1
11031	12378-PeCDF	57117-41-6	2.25	JB	0.0642	4.83	1
11031	23478-PeCDF	57117-31-4	1.13	JB	0.0675	4.83	1
11031	123478-HxCDF	70648-26-9	9.31		0.0798	4.83	1
11031	123678-HxCDF	57117-44-9	0.724	J	0.0661	4.83	1
11031	123789-HxCDF	72918-21-9	0.217	J	0.0815	4.83	1
11031	234678-HxCDF	60851-34-5	0.662	J	0.0683	4.83	1
11031	1234678-HpCDF	67562-39-4	5.89	B	0.0327	4.83	1
11031	1234789-HpCDF	55673-89-7	0.463	JQ	0.0657	4.83	1
11031	OCDF	39001-02-0	17.2	B	0.0728	9.66	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	51	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-027-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA7-SS-0.0-0.5

LLI Sample # SW 6418481
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 07:45

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4117 SDG#: DX141-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-027-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-027-SA7-SS-0.0-0.5

LLI Sample # SW 6418481
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 07:45

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4117 SDG#: DX141-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11277002	10/07/2011 11:27	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11277002	10/04/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403A	09/28/2011 21:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-062-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-062-SA7-SS-0.0-0.5

LLI Sample # SW 6418482
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 08:35

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4118 SDG#: DX141-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-062-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA7-SS-0.0-0.5

LLI Sample # SW 6418482
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 08:35

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4118 SDG#: DX141-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0788	JQ	0.0467	1.02	1
11031	12378-PeCDD	40321-76-4	0.398	JB	0.0674	5.08	1
11031	123478-HxCDD	39227-28-6	1.33	JQ	0.0560	5.08	1
11031	123678-HxCDD	57653-85-7	2.28	J	0.0547	5.08	1
11031	123789-HxCDD	19408-74-3	1.50	JB	0.0496	5.08	1
11031	1234678-HpCDD	35822-46-9	57.6	B	0.0757	5.08	1
11031	OCDD	3268-87-9	402	B	0.0998	10.2	1
11031	2378-TCDF	51207-31-9	0.970	J	0.110	1.02	1
11031	12378-PeCDF	57117-41-6	2.68	JB	0.0656	5.08	1
11031	23478-PeCDF	57117-31-4	2.00	JB	0.0635	5.08	1
11031	123478-HxCDF	70648-26-9	4.78	J	0.0527	5.08	1
11031	123678-HxCDF	57117-44-9	1.24	J	0.0504	5.08	1
11031	123789-HxCDF	72918-21-9	0.321	J	0.0553	5.08	1
11031	234678-HxCDF	60851-34-5	1.09	J	0.0513	5.08	1
11031	1234678-HpCDF	67562-39-4	14.4	B	0.0413	5.08	1
11031	1234789-HpCDF	55673-89-7	1.15	J	0.0583	5.08	1
11031	OCDF	39001-02-0	27.2	B	0.0561	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	93	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	72	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-062-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-062-SA7-SS-0.0-0.5

LLI Sample # SW 6418482
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 08:35

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4118 SDG#: DX141-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-062-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-062-SA7-SS-0.0-0.5

LLI Sample # SW 6418482
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 08:35

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4118 SDG#: DX141-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11277002	10/07/2011 12:24	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11277002	10/04/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11284162402A	10/11/2011 18:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-066-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA7-SS-0.0-0.5

LLI Sample # SW 6418483
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:12

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4119 SDG#: DX141-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-066-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA7-SS-0.0-0.5

LLI Sample # SW 6418483
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:12

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4119 SDG#: DX141-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0566	U	0.0566	0.985	1
11031	12378-PeCDD	40321-76-4	0.0994	JBQ	0.0526	4.93	1
11031	123478-HxCDD	39227-28-6	0.0984	JQ	0.0572	4.93	1
11031	123678-HxCDD	57653-85-7	0.444	J	0.0556	4.93	1
11031	123789-HxCDD	19408-74-3	0.395	JB	0.0525	4.93	1
11031	1234678-HpCDD	35822-46-9	6.70	B	0.0587	4.93	1
11031	OCDD	3268-87-9	47.2	B	0.0659	9.85	1
11031	2378-TCDF	51207-31-9	0.280	JQ	0.0778	0.985	1
11031	12378-PeCDF	57117-41-6	0.383	JBQ	0.0397	4.93	1
11031	23478-PeCDF	57117-31-4	0.454	JBQ	0.0403	4.93	1
11031	123478-HxCDF	70648-26-9	0.154	JQ	0.0425	4.93	1
11031	123678-HxCDF	57117-44-9	0.171	JQ	0.0362	4.93	1
11031	123789-HxCDF	72918-21-9	0.0877	JQ	0.0501	4.93	1
11031	234678-HxCDF	60851-34-5	0.266	JQ	0.0413	4.93	1
11031	1234678-HpCDF	67562-39-4	0.919	JB	0.0299	4.93	1
11031	1234789-HpCDF	55673-89-7	0.0785	JQ	0.0518	4.93	1
11031	OCDF	39001-02-0	1.78	JB	0.0733	9.85	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	56	25 - 164
13C12-12378-PeCDD	54	25 - 181
13C12-123478-HxCDD	59	32 - 141
13C12-123678-HxCDD	65	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	62	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	53	24 - 169
13C12-12378-PeCDF	56	24 - 185
13C12-23478-PeCDF	50	21 - 178
13C12-123478-HxCDF	50	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	52	28 - 136
13C12-123789-HxCDF	54	29 - 147
13C12-1234678-HpCDF	67	28 - 143
13C12-1234789-HpCDF	46	26 - 138
13C12-OCDF	44	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-066-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA7-SS-0.0-0.5

LLI Sample # SW 6418483
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:12

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4119 SDG#: DX141-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-066-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-066-SA7-SS-0.0-0.5

LLI Sample # SW 6418483
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:12

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4119 SDG#: DX141-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11277002	10/07/2011 13:20	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11277002	10/04/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403B	09/28/2011 21:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-067-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-067-SA7-SS-0.0-0.5

LLI Sample # SW 6418484
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:59

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4120 SDG#: DX141-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-067-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA7-SS-0.0-0.5

LLI Sample # SW 6418484
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:59

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4120 SDG#: DX141-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0557	U	0.0557	1.05	1
11031	12378-PeCDD	40321-76-4	0.441	JBQ	0.0557	5.23	1
11031	123478-HxCDD	39227-28-6	0.436	J	0.0541	5.23	1
11031	123678-HxCDD	57653-85-7	1.13	J	0.0510	5.23	1
11031	123789-HxCDD	19408-74-3	0.913	JB	0.0500	5.23	1
11031	1234678-HpCDD	35822-46-9	18.4	B	0.0600	5.23	1
11031	OCDD	3268-87-9	135	B	0.0667	10.5	1
11031	2378-TCDF	51207-31-9	0.509	J	0.0761	1.05	1
11031	12378-PeCDF	57117-41-6	0.411	JB	0.0341	5.23	1
11031	23478-PeCDF	57117-31-4	0.567	JB	0.0367	5.23	1
11031	123478-HxCDF	70648-26-9	0.362	J	0.0363	5.23	1
11031	123678-HxCDF	57117-44-9	0.288	J	0.0326	5.23	1
11031	123789-HxCDF	72918-21-9	0.106	J	0.0417	5.23	1
11031	234678-HxCDF	60851-34-5	0.338	J	0.0359	5.23	1
11031	1234678-HpCDF	67562-39-4	2.69	JB	0.0274	5.23	1
11031	1234789-HpCDF	55673-89-7	0.219	J	0.0510	5.23	1
11031	OCDF	39001-02-0	6.37	JB	0.0556	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	52	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-067-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-067-SA7-SS-0.0-0.5

LLI Sample # SW 6418484
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:59

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X4120 SDG#: DX141-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-067-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-067-SA7-SS-0.0-0.5

LLI Sample # SW 6418484
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:59

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4120 SDG#: DX141-20

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11277002	10/07/2011 14:17	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11277002	10/04/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403B	09/28/2011 21:38	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-068-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-068-SA7-SS-0.0-0.5

LLI Sample # SW 6418485
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:32

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4121 SDG#: DX141-21*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-068-SA7-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA7-SS-0.0-0.5

LLI Sample # SW 6418485
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:32

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4121 SDG#: DX141-21*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0398	U	0.0398	1.00	1
11031	12378-PeCDD	40321-76-4	0.172	JB	0.0455	5.02	1
11031	123478-HxCDD	39227-28-6	0.223	J	0.0448	5.02	1
11031	123678-HxCDD	57653-85-7	0.592	J	0.0450	5.02	1
11031	123789-HxCDD	19408-74-3	0.505	JB	0.0462	5.02	1
11031	1234678-HpCDD	35822-46-9	14.7	B	0.0532	5.02	1
11031	OCDD	3268-87-9	109	B	0.0622	10.0	1
11031	2378-TCDF	51207-31-9	0.675	JQ	0.101	1.00	1
11031	12378-PeCDF	57117-41-6	2.13	JB	0.0536	5.02	1
11031	23478-PeCDF	57117-31-4	0.616	JBQ	0.0551	5.02	1
11031	123478-HxCDF	70648-26-9	1.21	J	0.0417	5.02	1
11031	123678-HxCDF	57117-44-9	0.400	J	0.0369	5.02	1
11031	123789-HxCDF	72918-21-9	0.0669	J	0.0471	5.02	1
11031	234678-HxCDF	60851-34-5	0.289	JQ	0.0385	5.02	1
11031	1234678-HpCDF	67562-39-4	2.49	JB	0.0283	5.02	1
11031	1234789-HpCDF	55673-89-7	0.190	JQ	0.0469	5.02	1
11031	OCDF	39001-02-0	6.33	JB	0.0529	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	54	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-068-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-068-SA7-SS-0.0-0.5

LLI Sample # SW 6418485
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:32

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4121 SDG#: DX141-21*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-068-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-068-SA7-SS-0.0-0.5

LLI Sample # SW 6418485
LLI Group # 1268212
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:32

Submitted: 09/24/2011 09:00
Reported: 10/13/2011 23:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4121 SDG#: DX141-21*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11277002	10/07/2011 15:13	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11277002	10/04/2011 13:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403B	09/28/2011 21:38	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268212
Reported: 10/13/11 at 11:59 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11271162403A	Sample number(s): 6418473-6418481								
Moisture Content by 160.3					100		80-120		
Batch number: 11271162403B	Sample number(s): 6418483-6418485								
Moisture Content by 160.3					100		80-120		
Batch number: 11284162402A	Sample number(s): 6418482								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11277002	Sample number(s): 6418473-6418485								
2378-TCDD	0.0582 U	0.0582	1.00	ng/kg	98		67-158		
12378-PeCDD	0.0413 J	0.0387	5.00	ng/kg	102		70-142		
123478-HxCDD	0.0279 U	0.0279	5.00	ng/kg	104		70-164		
123678-HxCDD	0.0283 U	0.0283	5.00	ng/kg	98		76-134		
123789-HxCDD	0.0334 J	0.0285	5.00	ng/kg	101		64-162		
1234678-HpCDD	0.192 J	0.0453	5.00	ng/kg	99		70-140		
OCDD	0.493 J	0.0348	10.0	ng/kg	98		78-144		
2378-TCDF	0.0434 U	0.0434	1.00	ng/kg	102		75-158		
2378-TCDF-Conf	0.00950 U	0.00950	1.00	ng/kg	102		75-158		
12378-PeCDF	0.0219 J	0.0212	5.00	ng/kg	101		80-134		
23478-PeCDF	0.0315 J	0.0214	5.00	ng/kg	97		68-160		
123478-HxCDF	0.0209 U	0.0209	5.00	ng/kg	98		72-134		
123678-HxCDF	0.0186 U	0.0186	5.00	ng/kg	98		84-130		
123789-HxCDF	0.0236 U	0.0236	5.00	ng/kg	100		78-130		
234678-HxCDF	0.0184 U	0.0184	5.00	ng/kg	98		70-156		
1234678-HpCDF	0.130 J	0.0137	5.00	ng/kg	95		82-122		
1234789-HpCDF	0.0233 U	0.0233	5.00	ng/kg	99		78-138		
OCDF	0.0774 J	0.0694	10.0	ng/kg	98		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11271162403A	Sample number(s): 6418473-6418481					BKG: P418446			
Moisture Content by 160.3						1.3	1.4	6 (1)	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268212
Reported: 10/13/11 at 11:59 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11271162403B	Sample number(s): 6418483-6418485					BKG: P418471			
Moisture Content by 160.3						7.5	7.3	3	20
Batch number: 11284162402A	Sample number(s): 6418482					BKG: P415790			
Moisture Content by 160.3						9.5	9.4	1	20
Batch number: 11277002	Sample number(s): 6418473-6418485					UNSPK: 6418473			
2378-TCDD	99	100	67-158	0	25				
12378-PeCDD	100	101	70-142	0	25				
123478-HxCDD	99	100	70-164	0	25				
123678-HxCDD	97	96	76-134	1	25				
123789-HxCDD	98	97	64-162	2	25				
1234678-HpCDD	97	95	70-140	3	25				
OCDD	92	87	78-144	4	25				
2378-TCDF	104	99	75-158	5	25				
2378-TCDF-Conf	104	99	75-158	5	25				
12378-PeCDF	97	96	80-134	2	25				
23478-PeCDF	93	98	68-160	4	25				
123478-HxCDF	95	94	72-134	1	25				
123678-HxCDF	95	94	84-130	1	25				
123789-HxCDF	95	97	78-130	2	25				
234678-HxCDF	95	95	70-156	1	25				
1234678-HpCDF	92	93	82-122	1	25				
1234789-HpCDF	96	96	78-138	1	25				
OCDF	96	96	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11277002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6418473	69	56	55	71	59	47
6418474	70	63	56	67	66	67
6418475	70	62	60	71	67	70
6418476	71	58	54	69	60	59
6418477	72	60	34	39	63	62
6418478	70	60	53	68	64	60
6418479	68	61	63	72	65	66
6418480	87	78	77	87	78	79
6418481	74	64	59	70	65	63
6418482	82	72	74	77	74	81
6418483	56	50	50	60	52	54
6418484	77	66	63	72	65	66
6418485	77	64	66	72	65	65
Blank	83	74	73	84	81	76
MS	70	63	56	67	66	67

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268212
Reported: 10/13/11 at 11:59 PM

Surrogate Quality Control

MSD	70	62	60	71	67	70
OPR	72	64	66	74	70	73
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6418473	89	43	40	70	77	79
6418474	83	56	53	70	80	84
6418475	85	61	59	70	79	88
6418476	89	50	45	69	77	84
6418477	55	51	46	69	73	78
6418478	90	51	48	71	79	88
6418479	90	59	59	69	79	84
6418480	95	73	69	83	89	91
6418481	89	53	51	71	76	82
6418482	83	71	72	76	82	87
6418483	67	46	44	54	59	65
6418484	81	57	52	73	74	82
6418485	77	57	54	70	74	77
Blank	96	70	62	82	92	96
MS	83	56	53	70	80	84
MSD	85	61	59	70	79	88
OPR	92	63	58	72	80	84
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-2378-TCDF-Conf
6418473	78	74	71	58	71	
6418474	89	80	77	63	71	
6418475	87	82	81	63	72	
6418476	85	77	73	61	71	
6418477	88	77	71	65	71	
6418478	89	84	81	62	72	
6418479	89	84	84	62	70	
6418480	89	92	89		85	81
6418481	88	79	79	70	75	
6418482	93	85	85	80	77	
6418483	69	62	60	53	56	
6418484	85	78	73	73	77	
6418485	70	77	72	75	72	
Blank	94	91	83	77	81	76
MS	89	80	77	63	71	63
MSD	87	82	81	63	72	63
OPR	82	85	80	64	70	64
Limits:	28-130	23-140	17-157	24-169	24-185	24-169

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Ap# 1268212 sample# 6418473-85

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
& Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Ethylene EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowcrol EPA 8270	Other Instructions and Notes
SL-015-SA7-SS-0.0-0.5MS	09.22.11	1505	SOIL	NONE	2-SS Sleeve			X	X																		MS/MSD
SL-015-SA7-SS-0.0-0.5MS	09.22.11	1505	SOIL	NONE	4-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		MS/MSD
SL-139-SA7-SS-0.0-0.5	09.22.11	1440	SOIL	NONE	1-SS Sleeve			X	X																		
SL-139-SA7-SS-0.0-0.5	09.22.11	1440	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-140-SA7-SS-0.0-0.5	09.22.11	1345	SOIL	NONE	1-SS Sleeve			X	X																		
SL-140-SA7-SS-0.0-0.5	09.22.11	1345	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
DUP05-SA7-QC-092211	09.22.11	1510	SOIL	NONE	1-SS Sleeve			X	X																		
DUP05-SA7-QC-092211	09.22.11	1510	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-019-SA7-SS-0.0-0.5	09.23.11	1208	SOIL	NONE	1-SS Sleeve			X	X																		
SL-019-SA7-SS-0.0-0.5	09.23.11	1208	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-025-SA7-SS-0.0-0.5	09.23.11	0810	SOIL	NONE	1-SS Sleeve			X	X																		
SL-025-SA7-SS-0.0-0.5	09.23.11	0810	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		X	X											
SL-027-SA7-SS-0.0-0.5	09.23.11	0745	SOIL	NONE	1-SS Sleeve			X	X																		
SL-027-SA7-SS-0.0-0.5	09.23.11	0745	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X											
SL-062-SA7-SS-0.0-0.5	09.23.11	0835	SOIL	NONE	1-SS Sleeve			X	X																		
SL-062-SA7-SS-0.0-0.5	09.23.11	0835	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-066-SA7-SS-0.0-0.5	09.23.11	1412	SOIL	NONE	1-SS Sleeve			X	X																		
SL-066-SA7-SS-0.0-0.5	09.23.11	1412	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-067-SA7-SS-0.0-0.5	09.23.11	1459	SOIL	NONE	1-SS Sleeve			X	X																		
SL-067-SA7-SS-0.0-0.5	09.23.11	1459	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-068-SA7-SS-0.0-0.5	09.23.11	1432	SOIL	NONE	1-SS Sleeve			X	X																		
SL-068-SA7-SS-0.0-0.5	09.23.11	1432	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-069-SA7-SS-0.0-0.5	09.23.11	1231	SOIL	NONE	1-SS Sleeve			X	X																		
SL-069-SA7-SS-0.0-0.5	09.23.11	1231	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-089-SA7-SS-0.0-0.5	09.23.11	0958	SOIL	NONE	1-SS Sleeve			X	X																		
SL-089-SA7-SS-0.0-0.5	09.23.11	0958	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-162-SA7-SS-0.0-0.5	09.23.11	1115	SOIL	NONE	1-SS Sleeve			X	X																		
SL-162-SA7-SS-0.0-0.5	09.23.11	1115	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-153-SA7-SS-0.0-0.5	09.23.11	1145	SOIL	NONE	1-SS Sleeve			X	X																		
SL-153-SA7-SS-0.0-0.5	09.23.11	1145	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-161-SA7-SS-0.0-0.5	09.23.11	1035	SOIL	NONE	1-SS Sleeve			X	X																		
SL-161-SA7-SS-0.0-0.5	09.23.11	1035	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	09/23/2011 / 1600		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8754 3341 0851,0862,0873	

9-24-11 900

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 18, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/24/2011
Group Number: 1268213
SDG: DX142
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-069-SA7-SS-0.0-0.5 Soil	6418486
SL-089-SA7-SS-0.0-0.5 Soil	6418487
SL-152-SA7-SS-0.0-0.5 Soil	6418488
SL-153-SA7-SS-0.0-0.5 Soil	6418489
SL-181-SA7-SS-0.0-0.5 Soil	6418490
SL-030-SA7-SB-4.0-5.0 Soil	6418491
SL-073-SA7-SB-4.0-5.0 Soil	6418492
SL-076-SA7-SB-2.5-3.5 Soil	6418493
SL-028-SA7-SB-4.0-5.0 Soil	6418494
SL-028-SA7-SB-8.0-9.0 Soil	6418495

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO CDM Federal Services Program Attn: Todd Burgesser

ELECTRONIC COPY TO Data Package Group

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-069-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-069-SA7-SS-0.0-0.5

LLI Sample # SW 6418486
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 12:31

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4201 SDG#: DX142-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-069-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-069-SA7-SS-0.0-0.5

LLI Sample # SW 6418486
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 12:31

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4201 SDG#: DX142-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0283	U	0.0283	0.992	1
11031	12378-PeCDD	40321-76-4	0.121	JQ	0.0338	4.96	1
11031	123478-HxCDD	39227-28-6	0.125	JQ	0.0388	4.96	1
11031	123678-HxCDD	57653-85-7	0.360	JBQ	0.0383	4.96	1
11031	123789-HxCDD	19408-74-3	0.335	JQ	0.0386	4.96	1
11031	1234678-HpCDD	35822-46-9	4.85	JB	0.0353	4.96	1
11031	OCDD	3268-87-9	44.2	B	0.0313	9.92	1
11031	2378-TCDF	51207-31-9	0.0883	JQ	0.0355	0.992	1
11031	12378-PeCDF	57117-41-6	0.0683	JB	0.0197	4.96	1
11031	23478-PeCDF	57117-31-4	0.0670	JB	0.0210	4.96	1
11031	123478-HxCDF	70648-26-9	0.136	JB	0.0273	4.96	1
11031	123678-HxCDF	57117-44-9	0.120	JB	0.0230	4.96	1
11031	123789-HxCDF	72918-21-9	0.0832	JBQ	0.0307	4.96	1
11031	234678-HxCDF	60851-34-5	0.126	JBQ	0.0251	4.96	1
11031	1234678-HpCDF	67562-39-4	1.12	JB	0.0144	4.96	1
11031	1234789-HpCDF	55673-89-7	0.100	JB	0.0297	4.96	1
11031	OCDF	39001-02-0	2.30	JB	0.0411	9.92	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	95	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	101	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	64	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

Sample Description: **SL-069-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-069-SA7-SS-0.0-0.5

LLI Sample # SW 6418486
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 12:31

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4201 SDG#: DX142-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-069-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-069-SA7-SS-0.0-0.5

LLI Sample # SW 6418486
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 12:31

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4201 SDG#: DX142-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280002	10/11/2011 23:09	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11280002	10/09/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403B	09/28/2011 21:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-089-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SS-0.0-0.5

LLI Sample # SW 6418487
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 09:58

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4202 SDG#: DX142-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-089-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SS-0.0-0.5

LLI Sample # SW 6418487
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 09:58

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4202 SDG#: DX142-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0442	U	0.0442	1.04	1
11031	12378-PeCDD	40321-76-4	0.0483	JQ	0.0389	5.22	1
11031	123478-HxCDD	39227-28-6	0.0778	JQ	0.0474	5.22	1
11031	123678-HxCDD	57653-85-7	0.641	JB	0.0472	5.22	1
11031	123789-HxCDD	19408-74-3	0.354	JB	0.0473	5.22	1
11031	1234678-HpCDD	35822-46-9	27.9	B	0.0795	5.22	1
11031	OCDD	3268-87-9	329	B	0.0934	10.4	1
11031	2378-TCDF	51207-31-9	0.0444	U	0.0444	1.04	1
11031	12378-PeCDF	57117-41-6	0.0249	JBQ	0.0231	5.22	1
11031	23478-PeCDF	57117-31-4	0.163	JBQ	0.0250	5.22	1
11031	123478-HxCDF	70648-26-9	0.244	J	0.0567	5.22	1
11031	123678-HxCDF	57117-44-9	0.187	J	0.0432	5.22	1
11031	123789-HxCDF	72918-21-9	0.0504	JQ	0.0306	5.22	1
11031	234678-HxCDF	60851-34-5	0.302	JB	0.0243	5.22	1
11031	1234678-HpCDF	67562-39-4	4.18	JB	0.0484	5.22	1
11031	1234789-HpCDF	55673-89-7	0.757	JB	0.0633	5.22	1
11031	OCDF	39001-02-0	15.2	B	0.0753	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	29	26 - 152
13C12-123678-HxCDF	36	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	53	28 - 143
13C12-1234789-HpCDF	51	26 - 138
13C12-OCDF	46	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-089-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SS-0.0-0.5

LLI Sample # SW 6418487
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 09:58

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4202 SDG#: DX142-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-089-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SS-0.0-0.5

LLI Sample # SW 6418487
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 09:58

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4202 SDG#: DX142-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11278001	10/07/2011 17:07	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11278001	10/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11284162402A	10/11/2011 18:16	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-152-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-152-SA7-SS-0.0-0.5

LLI Sample # SW 6418488
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 11:15

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4203 SDG#: DX142-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-152-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-152-SA7-SS-0.0-0.5

LLI Sample # SW 6418488
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 11:15

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4203 SDG#: DX142-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0522	JB	0.0461	1.02	1
11031	12378-PeCDD	40321-76-4	0.225	JB	0.0493	5.08	1
11031	123478-HxCDD	39227-28-6	0.173	JQ	0.0558	5.08	1
11031	123678-HxCDD	57653-85-7	0.559	JB	0.0559	5.08	1
11031	123789-HxCDD	19408-74-3	0.434	JB	0.0526	5.08	1
11031	1234678-HpCDD	35822-46-9	11.8	B	0.0584	5.08	1
11031	OCDD	3268-87-9	96.5	B	0.0627	10.2	1
11031	2378-TCDF	51207-31-9	0.267	J	0.0484	1.02	1
11031	12378-PeCDF	57117-41-6	0.124	JB	0.0268	5.08	1
11031	23478-PeCDF	57117-31-4	0.324	JBQ	0.0258	5.08	1
11031	123478-HxCDF	70648-26-9	0.301	JB	0.0409	5.08	1
11031	123678-HxCDF	57117-44-9	0.177	JBQ	0.0357	5.08	1
11031	123789-HxCDF	72918-21-9	0.0851	JQ	0.0358	5.08	1
11031	234678-HxCDF	60851-34-5	0.202	JB	0.0328	5.08	1
11031	1234678-HpCDF	67562-39-4	2.02	JB	0.0253	5.08	1
11031	1234789-HpCDF	55673-89-7	0.234	JB	0.0391	5.08	1
11031	OCDF	39001-02-0	5.91	JB	0.0485	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	73	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-152-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-152-SA7-SS-0.0-0.5

LLI Sample # SW 6418488
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 11:15

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4203 SDG#: DX142-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-152-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-152-SA7-SS-0.0-0.5

LLI Sample # SW 6418488
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 11:15

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4203 SDG#: DX142-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11285001	10/15/2011 09:26	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11285001	10/12/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11284162402A	10/11/2011 18:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-153-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-153-SA7-SS-0.0-0.5

LLI Sample # SW 6418489
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 11:45

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4204 SDG#: DX142-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.69	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-153-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-153-SA7-SS-0.0-0.5

LLI Sample # SW 6418489
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 11:45

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4204 SDG#: DX142-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0400	U	0.0400	0.970	1
11031	12378-PeCDD	40321-76-4	0.0854	JQ	0.0322	4.85	1
11031	123478-HxCDD	39227-28-6	0.115	JQ	0.0378	4.85	1
11031	123678-HxCDD	57653-85-7	0.279	JB	0.0366	4.85	1
11031	123789-HxCDD	19408-74-3	0.198	JBQ	0.0340	4.85	1
11031	1234678-HpCDD	35822-46-9	5.47	B	0.0431	4.85	1
11031	OCDD	3268-87-9	49.4	B	0.0527	9.70	1
11031	2378-TCDF	51207-31-9	0.0663	J	0.0406	0.970	1
11031	12378-PeCDF	57117-41-6	0.143	JBQ	0.0211	4.85	1
11031	23478-PeCDF	57117-31-4	0.184	JB	0.0228	4.85	1
11031	123478-HxCDF	70648-26-9	0.186	JQ	0.0375	4.85	1
11031	123678-HxCDF	57117-44-9	0.0932	JQ	0.0267	4.85	1
11031	123789-HxCDF	72918-21-9	0.0320	J	0.0318	4.85	1
11031	234678-HxCDF	60851-34-5	0.0908	JBQ	0.0245	4.85	1
11031	1234678-HpCDF	67562-39-4	1.02	JB	0.0184	4.85	1
11031	1234789-HpCDF	55673-89-7	0.0894	JBQ	0.0378	4.85	1
11031	OCDF	39001-02-0	2.88	JB	0.0651	9.70	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	58	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	44	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-153-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-153-SA7-SS-0.0-0.5

LLI Sample # SW 6418489
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 11:45

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4204 SDG#: DX142-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-153-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-153-SA7-SS-0.0-0.5

LLI Sample # SW 6418489
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 11:45

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4204 SDG#: DX142-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11278001	10/07/2011 22:03	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11278001	10/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11284162402A	10/11/2011 18:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-181-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA7-SS-0.0-0.5

LLI Sample # SW 6418490
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 10:35

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4205 SDG#: DX142-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-181-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA7-SS-0.0-0.5

LLI Sample # SW 6418490
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 10:35

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4205 SDG#: DX142-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0418	U	0.0418	0.976	1
11031	12378-PeCDD	40321-76-4	0.147	JBQ	0.0423	4.88	1
11031	123478-HxCDD	39227-28-6	0.250	JQ	0.0423	4.88	1
11031	123678-HxCDD	57653-85-7	0.489	JB	0.0458	4.88	1
11031	123789-HxCDD	19408-74-3	0.410	JB	0.0420	4.88	1
11031	1234678-HpCDD	35822-46-9	14.7	B	0.0627	4.88	1
11031	OCDD	3268-87-9	161	B	0.0699	9.76	1
11031	2378-TCDF	51207-31-9	0.0709	JQ	0.0445	0.976	1
11031	12378-PeCDF	57117-41-6	0.0221	U	0.0221	4.88	1
11031	23478-PeCDF	57117-31-4	0.147	JB	0.0226	4.88	1
11031	123478-HxCDF	70648-26-9	0.165	JB	0.0349	4.88	1
11031	123678-HxCDF	57117-44-9	0.130	JB	0.0289	4.88	1
11031	123789-HxCDF	72918-21-9	0.0602	JQ	0.0359	4.88	1
11031	234678-HxCDF	60851-34-5	0.168	JB	0.0294	4.88	1
11031	1234678-HpCDF	67562-39-4	2.02	JB	0.0286	4.88	1
11031	1234789-HpCDF	55673-89-7	0.230	JBQ	0.0476	4.88	1
11031	OCDF	39001-02-0	6.52	JB	0.0478	9.76	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	51	26 - 152
13C12-123678-HxCDF	61	26 - 123
13C12-234678-HxCDF	59	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	61	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-181-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA7-SS-0.0-0.5

LLI Sample # SW 6418490
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 10:35

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4205 SDG#: DX142-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-181-SA7-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-181-SA7-SS-0.0-0.5

LLI Sample # SW 6418490
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 10:35

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4205 SDG#: DX142-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11285001	10/15/2011 10:22	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11285001	10/12/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11284162402A	10/11/2011 18:16	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-030-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-030-SA7-SB-4.0-5.0

LLI Sample # SW 6418491
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 09:00

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4206 SDG#: DX142-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-030-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-030-SA7-SB-4.0-5.0

LLI Sample # SW 6418491
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 09:00

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4206 SDG#: DX142-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0485	U	0.0485	1.04	1
11031	12378-PeCDD	40321-76-4	0.0403	U	0.0403	5.22	1
11031	123478-HxCDD	39227-28-6	0.0280	U	0.0280	5.22	1
11031	123678-HxCDD	57653-85-7	0.209	JBQ	0.0287	5.22	1
11031	123789-HxCDD	19408-74-3	0.281	JBQ	0.0287	5.22	1
11031	1234678-HpCDD	35822-46-9	0.328	JB	0.0337	5.22	1
11031	OCDD	3268-87-9	1.19	JB	0.0261	10.4	1
11031	2378-TCDF	51207-31-9	0.0400	U	0.0400	1.04	1
11031	12378-PeCDF	57117-41-6	0.0310	JB	0.0215	5.22	1
11031	23478-PeCDF	57117-31-4	0.0443	JBQ	0.0222	5.22	1
11031	123478-HxCDF	70648-26-9	0.0368	JB	0.0199	5.22	1
11031	123678-HxCDF	57117-44-9	0.0468	JBQ	0.0164	5.22	1
11031	123789-HxCDF	72918-21-9	0.109	JQ	0.0218	5.22	1
11031	234678-HxCDF	60851-34-5	0.0341	JB	0.0172	5.22	1
11031	1234678-HpCDF	67562-39-4	0.118	JBQ	0.0160	5.22	1
11031	1234789-HpCDF	55673-89-7	0.0291	U	0.0291	5.22	1
11031	OCDF	39001-02-0	0.185	JB	0.0484	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	60	25 - 164
13C12-12378-PeCDD	65	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	54	24 - 169
13C12-12378-PeCDF	62	24 - 185
13C12-23478-PeCDF	56	21 - 178
13C12-123478-HxCDF	50	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	58	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	59	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-030-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-030-SA7-SB-4.0-5.0

LLI Sample # SW 6418491
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 09:00

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4206 SDG#: DX142-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-030-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-030-SA7-SB-4.0-5.0

LLI Sample # SW 6418491
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 09:00

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4206 SDG#: DX142-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11285001	10/15/2011 11:19	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11285001	10/12/2011 13:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403B	09/28/2011 21:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-073-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-073-SA7-SB-4.0-5.0

LLI Sample # SW 6418492
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 10:00

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4207 SDG#: DX142-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-073-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-073-SA7-SB-4.0-5.0

LLI Sample # SW 6418492
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 10:00

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4207 SDG#: DX142-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0415	U	0.0415	1.03	1
11031	12378-PeCDD	40321-76-4	0.139	J	0.0346	5.14	1
11031	123478-HxCDD	39227-28-6	0.0517	JQ	0.0295	5.14	1
11031	123678-HxCDD	57653-85-7	0.172	JBQ	0.0299	5.14	1
11031	123789-HxCDD	19408-74-3	0.303	JBQ	0.0255	5.14	1
11031	1234678-HpCDD	35822-46-9	0.408	JBQ	0.0363	5.14	1
11031	OCDD	3268-87-9	1.79	JB	0.0252	10.3	1
11031	2378-TCDF	51207-31-9	0.102	JQ	0.0412	1.03	1
11031	12378-PeCDF	57117-41-6	0.267	JB	0.0198	5.14	1
11031	23478-PeCDF	57117-31-4	0.242	JBQ	0.0218	5.14	1
11031	123478-HxCDF	70648-26-9	0.154	J	0.0254	5.14	1
11031	123678-HxCDF	57117-44-9	0.109	J	0.0194	5.14	1
11031	123789-HxCDF	72918-21-9	0.121	JQ	0.0323	5.14	1
11031	234678-HxCDF	60851-34-5	0.0741	JBQ	0.0221	5.14	1
11031	1234678-HpCDF	67562-39-4	0.176	JBQ	0.0133	5.14	1
11031	1234789-HpCDF	55673-89-7	0.0340	U	0.0340	5.14	1
11031	OCDF	39001-02-0	0.292	JB	0.0747	10.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	52	29 - 147
13C12-1234678-HpCDF	99	28 - 143
13C12-1234789-HpCDF	46	26 - 138
13C12-OCDF	41	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-073-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-073-SA7-SB-4.0-5.0

LLI Sample # SW 6418492
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 10:00

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4207 SDG#: DX142-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-073-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-073-SA7-SB-4.0-5.0

LLI Sample # SW 6418492
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 10:00

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4207 SDG#: DX142-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11278001	10/08/2011 00:52	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11278001	10/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403B	09/28/2011 21:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-076-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA7-SB-2.5-3.5

LLI Sample # SW 6418493
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 11:00

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4208 SDG#: DX142-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-076-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA7-SB-2.5-3.5

LLI Sample # SW 6418493
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 11:00

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4208 SDG#: DX142-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**		**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0492	U	0.0492	1.02	1
11031	12378-PeCDD	40321-76-4	0.112	JQ	0.0397	5.12	1
11031	123478-HxCDD	39227-28-6	0.0487	J	0.0454	5.12	1
11031	123678-HxCDD	57653-85-7	0.443	JB	0.0445	5.12	1
11031	123789-HxCDD	19408-74-3	0.505	JB	0.0436	5.12	1
11031	1234678-HpCDD	35822-46-9	8.63	B	0.0654	5.12	1
11031	OCDD	3268-87-9	83.7	B	0.0613	10.2	1
11031	2378-TCDF	51207-31-9	0.0623	U	0.0623	1.02	1
11031	12378-PeCDF	57117-41-6	0.0424	U	0.0424	5.12	1
11031	23478-PeCDF	57117-31-4	0.0456	U	0.0456	5.12	1
11031	123478-HxCDF	70648-26-9	1.52	J	0.0642	5.12	1
11031	123678-HxCDF	57117-44-9	0.269	J	0.0485	5.12	1
11031	123789-HxCDF	72918-21-9	0.121	JQ	0.0841	5.12	1
11031	234678-HxCDF	60851-34-5	0.461	JB	0.0570	5.12	1
11031	1234678-HpCDF	67562-39-4	13.0	B	0.0325	5.12	1
11031	1234789-HpCDF	55673-89-7	0.573	JB	0.0907	5.12	1
11031	OCDF	39001-02-0	47.4	B	0.107	10.2	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	52	29 - 147
13C12-1234678-HpCDF	96	28 - 143
13C12-1234789-HpCDF	44	26 - 138
13C12-OCDF	38	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-076-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA7-SB-2.5-3.5

LLI Sample # SW 6418493
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 11:00

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4208 SDG#: DX142-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-076-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-076-SA7-SB-2.5-3.5

LLI Sample # SW 6418493
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 11:00

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4208 SDG#: DX142-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11278001	10/08/2011 01:49	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11278001	10/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403B	09/28/2011 21:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-028-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA7-SB-4.0-5.0

LLI Sample # SW 6418494
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:18

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4209 SDG#: DX142-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-028-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-028-SA7-SB-4.0-5.0

LLI Sample # SW 6418494
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:18

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4209 SDG#: DX142-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0506	U	0.0506	1.08	1
11031	12378-PeCDD	40321-76-4	0.0343	U	0.0343	5.41	1
11031	123478-HxCDD	39227-28-6	0.0276	U	0.0276	5.41	1
11031	123678-HxCDD	57653-85-7	0.0257	U	0.0257	5.41	1
11031	123789-HxCDD	19408-74-3	0.0552	JBQ	0.0244	5.41	1
11031	1234678-HpCDD	35822-46-9	0.228	JB	0.0400	5.41	1
11031	OCDD	3268-87-9	0.604	JBQ	0.0314	10.8	1
11031	2378-TCDF	51207-31-9	0.0449	U	0.0449	1.08	1
11031	12378-PeCDF	57117-41-6	0.0194	U	0.0194	5.41	1
11031	23478-PeCDF	57117-31-4	0.0222	U	0.0222	5.41	1
11031	123478-HxCDF	70648-26-9	0.0243	U	0.0243	5.41	1
11031	123678-HxCDF	57117-44-9	0.0184	U	0.0184	5.41	1
11031	123789-HxCDF	72918-21-9	0.0433	JQ	0.0266	5.41	1
11031	234678-HxCDF	60851-34-5	0.0191	U	0.0191	5.41	1
11031	1234678-HpCDF	67562-39-4	0.0918	JB	0.0114	5.41	1
11031	1234789-HpCDF	55673-89-7	0.0596	JBQ	0.0298	5.41	1
11031	OCDF	39001-02-0	0.122	JBQ	0.0882	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	48	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	51	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	45	26 - 138
13C12-OCDF	39	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-028-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA7-SB-4.0-5.0

LLI Sample # SW 6418494
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:18

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4209 SDG#: DX142-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-028-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA7-SB-4.0-5.0

LLI Sample # SW 6418494
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:18

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4209 SDG#: DX142-09

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.2C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 6.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11278001	10/08/2011 02:46	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11278001	10/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403B	09/28/2011 21:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-028-SA7-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA7-SB-8.0-9.0

LLI Sample # SW 6418495
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:14

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4210 SDG#: DX142-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-028-SA7-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA7-SB-8.0-9.0

LLI Sample # SW 6418495
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:14

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4210 SDG#: DX142-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0462	U	0.0462	1.05	1
11031	12378-PeCDD	40321-76-4	0.0369	U	0.0369	5.27	1
11031	123478-HxCDD	39227-28-6	0.0268	U	0.0268	5.27	1
11031	123678-HxCDD	57653-85-7	0.0522	JBQ	0.0264	5.27	1
11031	123789-HxCDD	19408-74-3	0.0585	JBQ	0.0263	5.27	1
11031	1234678-HpCDD	35822-46-9	0.290	JBQ	0.0387	5.27	1
11031	OCDD	3268-87-9	0.722	JBQ	0.0268	10.5	1
11031	2378-TCDF	51207-31-9	0.0355	U	0.0355	1.05	1
11031	12378-PeCDF	57117-41-6	0.0176	U	0.0176	5.27	1
11031	23478-PeCDF	57117-31-4	0.0665	JBQ	0.0194	5.27	1
11031	123478-HxCDF	70648-26-9	0.0568	J	0.0219	5.27	1
11031	123678-HxCDF	57117-44-9	0.0358	JQ	0.0171	5.27	1
11031	123789-HxCDF	72918-21-9	0.0527	JQ	0.0249	5.27	1
11031	234678-HxCDF	60851-34-5	0.0688	JBQ	0.0194	5.27	1
11031	1234678-HpCDF	67562-39-4	0.112	JBQ	0.0105	5.27	1
11031	1234789-HpCDF	55673-89-7	0.0275	JBQ	0.0251	5.27	1
11031	OCDF	39001-02-0	0.285	JBQ	0.0798	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	44	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-028-SA7-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA7-SB-8.0-9.0

LLI Sample # SW 6418495
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:14

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4210 SDG#: DX142-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-028-SA7-SB-8.0-9.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-028-SA7-SB-8.0-9.0

LLI Sample # SW 6418495
LLI Group # 1268213
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/23/2011 14:14

Submitted: 09/24/2011 09:00
Reported: 10/18/2011 23:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4210 SDG#: DX142-10

General Sample Comments

State of California Lab Certification No. 2501
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.2C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 6.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11278001	10/08/2011 03:42	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11278001	10/05/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11271162403B	09/28/2011 21:38	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268213
Reported: 10/18/11 at 11:06 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11271162403B	Sample number(s): 6418486,6418491-6418495								
Moisture Content by 160.3					100		80-120		
Batch number: 11284162402A	Sample number(s): 6418487-6418490								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11278001	Sample number(s): 6418487,6418489,6418492-6418495								
2378-TCDD	0.0414 U	0.0414	1.00	ng/kg	103		67-158		
12378-PeCDD	0.0292 U	0.0292	5.00	ng/kg	101		70-142		
123478-HxCDD	0.0220 U	0.0220	5.00	ng/kg	99		70-164		
123678-HxCDD	0.0339 J	0.0218	5.00	ng/kg	97		76-134		
123789-HxCDD	0.0358 J	0.0215	5.00	ng/kg	98		64-162		
1234678-HpCDD	0.161 J	0.0245	5.00	ng/kg	97		70-140		
OCDD	0.328 J	0.0286	10.0	ng/kg	96		78-144		
2378-TCDF	0.0321 U	0.0321	1.00	ng/kg	102		75-158		
12378-PeCDF	0.0235 J	0.0149	5.00	ng/kg	97		80-134		
23478-PeCDF	0.0573 J	0.0154	5.00	ng/kg	96		68-160		
123478-HxCDF	0.0336 U	0.0336	5.00	ng/kg	94		72-134		
123678-HxCDF	0.0260 U	0.0260	5.00	ng/kg	94		84-130		
123789-HxCDF	0.0215 U	0.0215	5.00	ng/kg	94		78-130		
234678-HxCDF	0.0337 J	0.0154	5.00	ng/kg	96		70-156		
1234678-HpCDF	0.0842 J	0.0124	5.00	ng/kg	92		82-122		
1234789-HpCDF	0.0285 J	0.0178	5.00	ng/kg	95		78-138		
OCDF	0.135 J	0.0560	10.0	ng/kg	95		63-170		
Batch number: 11280002	Sample number(s): 6418486								
2378-TCDD	0.0413 U	0.0413	1.00	ng/kg	102		67-158		
12378-PeCDD	0.0372 U	0.0372	5.00	ng/kg	102		70-142		
123478-HxCDD	0.0238 U	0.0238	5.00	ng/kg	104		70-164		
123678-HxCDD	0.0498 J	0.0235	5.00	ng/kg	101		76-134		
123789-HxCDD	0.0242 U	0.0242	5.00	ng/kg	99		64-162		
1234678-HpCDD	0.308 J	0.0298	5.00	ng/kg	98		70-140		
OCDD	0.625 J	0.0211	10.0	ng/kg	98		78-144		
2378-TCDF	0.0379 U	0.0379	1.00	ng/kg	104		75-158		
12378-PeCDF	0.0197 J	0.0189	5.00	ng/kg	100		80-134		
23478-PeCDF	0.0656 J	0.0189	5.00	ng/kg	99		68-160		
123478-HxCDF	0.0739 J	0.0214	5.00	ng/kg	99		72-134		
123678-HxCDF	0.0577 J	0.0185	5.00	ng/kg	95		84-130		
123789-HxCDF	0.0378 J	0.0238	5.00	ng/kg	97		78-130		
234678-HxCDF	0.0899 J	0.0202	5.00	ng/kg	99		70-156		
1234678-HpCDF	0.210 J	0.0107	5.00	ng/kg	96		82-122		
1234789-HpCDF	0.0464 J	0.0203	5.00	ng/kg	99		78-138		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268213
Reported: 10/18/11 at 11:06 PM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
OCDF	0.226	J	0.0378	10.0	ng/kg	98		63-170		
Batch number: 11285001	Sample number(s): 6418488,6418490-6418491									
2378-TCDD	0.0501	J	0.0485	1.00	ng/kg	95		67-158		
12378-PeCDD	0.0433	J	0.0366	5.00	ng/kg	95		70-142		
123478-HxCDD	0.0242	U	0.0242	5.00	ng/kg	94		70-164		
123678-HxCDD	0.0270	J	0.0240	5.00	ng/kg	90		76-134		
123789-HxCDD	0.0287	J	0.0255	5.00	ng/kg	92		64-162		
1234678-HpCDD	0.227	J	0.0371	5.00	ng/kg	90		70-140		
OCDD	0.456	J	0.0253	10.0	ng/kg	90		78-144		
2378-TCDF	0.0371	U	0.0371	1.00	ng/kg	100		75-158		
12378-PeCDF	0.0611	J	0.0199	5.00	ng/kg	92		80-134		
23478-PeCDF	0.0852	J	0.0206	5.00	ng/kg	89		68-160		
123478-HxCDF	0.0401	J	0.0208	5.00	ng/kg	89		72-134		
123678-HxCDF	0.0225	J	0.0172	5.00	ng/kg	90		84-130		
123789-HxCDF	0.0229	U	0.0229	5.00	ng/kg	90		78-130		
234678-HxCDF	0.0261	J	0.0185	5.00	ng/kg	88		70-156		
1234678-HpCDF	0.0966	J	0.0117	5.00	ng/kg	88		82-122		
1234789-HpCDF	0.0371	J	0.0200	5.00	ng/kg	92		78-138		
OCDF	0.217	J	0.0584	10.0	ng/kg	92		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11271162403B	Sample number(s): 6418486,6418491-6418495 BKG: P418471								
Moisture Content by 160.3						7.5	7.3	3	20
Batch number: 11284162402A	Sample number(s): 6418487-6418490 BKG: P415790								
Moisture Content by 160.3						9.5	9.4	1	20
Batch number: 11278001	Sample number(s): 6418487,6418489,6418492-6418495 UNSPK: P419510								
2378-TCDD	99	95	67-158	4	25				
12378-PeCDD	99	97	70-142	2	25				
123478-HxCDD	99	95	70-164	4	25				
123678-HxCDD	96	93	76-134	3	25				
123789-HxCDD	102	99	64-162	2	25				
1234678-HpCDD	94	91	70-140	3	25				
OCDD	99	93	78-144	4	25				
2378-TCDF	95	91	75-158	4	25				
12378-PeCDF	96	94	80-134	2	25				
23478-PeCDF	94	91	68-160	3	25				
123478-HxCDF	96	89	72-134	8	25				
123678-HxCDF	95	88	84-130	7	25				
123789-HxCDF	94	90	78-130	4	25				
234678-HxCDF	95	91	70-156	4	25				
1234678-HpCDF	89	88	82-122	1	25				
1234789-HpCDF	94	92	78-138	2	25				
OCDF	95	89	63-170	6	25				
Batch number: 11280002	Sample number(s): 6418486 UNSPK: P421344								
2378-TCDD	99	102	67-158	3	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268213
Reported: 10/18/11 at 11:06 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
12378-PeCDD	101	101	70-142	0	25				
123478-HxCDD	101	100	70-164	1	25				
123678-HxCDD	96	96	76-134	0	25				
123789-HxCDD	98	99	64-162	1	25				
1234678-HpCDD	119	106	70-140	11	25				
OCDD	225*	142	78-144	35*	25				
2378-TCDF	96	95	75-158	0	25				
12378-PeCDF	99	98	80-134	0	25				
23478-PeCDF	96	97	68-160	1	25				
123478-HxCDF	98	97	72-134	0	25				
123678-HxCDF	98	96	84-130	2	25				
123789-HxCDF	98	94	78-130	4	25				
234678-HxCDF	98	98	70-156	0	25				
1234678-HpCDF	98	96	82-122	2	25				
1234789-HpCDF	98	98	78-138	0	25				
OCDF	101	97	63-170	4	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11278001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6418487	75	61	29	36	61	60
6418489	78	63	41	58	61	56
6418492	68	59	58	74	62	52
6418493	70	61	55	72	62	52
6418494	67	59	48	63	62	51
6418495	71	61	60	74	65	59
Blank	72	64	31	40	69	60
MS	71	64	35	41	64	67
MSD	73	62	41	51	63	66
OPR	66	58	49	63	61	53
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6418487	53	51	46	70	72	76
6418489	82	50	44	72	78	80
6418492	99	46	41	70	77	80
6418493	96	44	38	70	74	82
6418494	93	45	39	71	75	86
6418495	95	50	44	68	75	82
Blank	65	55	48	77	85	87
MS	60	56	54	70	74	79
MSD	70	56	55	70	77	88

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268213
Reported: 10/18/11 at 11:06 PM

Surrogate Quality Control

OPR	88	53	46	71	79	81
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6418487	72	81	78	68	72	
6418489	86	82	77	69	74	
6418492	86	83	83	61	72	
6418493	84	77	76	62	74	
6418494	90	82	81	60	73	
6418495	80	78	74	65	73	
Blank	88	89	86	61	74	
MS	86	80	82	67	71	
MSD	95	84	80	67	68	
OPR	80	84	82	57	69	
Limits:	28-130	23-140	17-157	24-169	24-185	

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11280002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6418486	77	66	66	79	69	67
Blank	77	71	67	78	73	75
MS	74	65	64	72	67	64
MSD	75	68	69	78	71	69
OPR	67	62	58	71	64	61
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6418486	101	62	64	76	84	86
Blank	113	76	77	81	86	91
MS	91	64	69	71	83	88
MSD	97	72	76	74	80	86
OPR	103	63	66	72	84	88
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6418486	84	89	95	72	79	
Blank	89	104	115	70	79	
MS	82	85	93	70	73	
MSD	82	91	101	73	76	
OPR	88	94	106	60	70	
Limits:	28-130	23-140	17-157	24-169	24-185	

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11285001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6418488	72	66	55	63	66	70
6418490	70	61	51	61	59	59

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268213
Reported: 10/18/11 at 11:06 PM

Surrogate Quality Control

6418491	60	56	50	62	58	56
Blank	73	68	59	72	66	66
OPR	63	58	55	65	60	60
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6418488	80	65	73	72	78	80
6418490	77	58	61	70	75	75
6418491	81	55	59	65	74	79
Blank	93	64	68	79	81	85
OPR	89	58	61	69	73	78
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6418488	79	84	92	66	73	
6418490	79	83	83	63	71	
6418491	78	78	84	54	62	
Blank	83	92	96	64	76	
OPR	76	83	88	54	65	
Limits:	28-130	23-140	17-157	24-169	24-185	

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp# 1268913 sample#6418486-95

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dioxins/ EPA 8270	Other Instructions and Notes
SL-015-SA7-SS-0.0-0.5MS	09.22.11	1505	SOIL	NONE	2-SS Sleeve			X	X																		MS/MSD
SL-015-SA7-SS-0.0-0.5MS	09.22.11	1505	SOIL	NONE	4-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		MS/MSD
SL-139-SA7-SS-0.0-0.5	09.22.11	1440	SOIL	NONE	1-SS Sleeve			X	X																		
SL-139-SA7-SS-0.0-0.5	09.22.11	1440	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-140-SA7-SS-0.0-0.5	09.22.11	1345	SOIL	NONE	1-SS Sleeve			X	X																		
SL-140-SA7-SS-0.0-0.5	09.22.11	1345	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
DUP05-SA7-QC-092211	09.22.11	1510	SOIL	NONE	1-SS Sleeve			X	X																		
DUP05-SA7-QC-092211	09.22.11	1510	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-019-SA7-SS-0.0-0.5	09.23.11	1208	SOIL	NONE	1-SS Sleeve			X	X																		
SL-019-SA7-SS-0.0-0.5	09.23.11	1208	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-025-SA7-SS-0.0-0.5	09.23.11	0810	SOIL	NONE	1-SS Sleeve			X	X																		
SL-025-SA7-SS-0.0-0.5	09.23.11	0810	SOIL	NONE	1-16 oz Jars	X	X			X	X	X	X		X	X											
SL-027-SA7-SS-0.0-0.5	09.23.11	0745	SOIL	NONE	1-SS Sleeve			X	X																		
SL-027-SA7-SS-0.0-0.5	09.23.11	0745	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X											
SL-062-SA7-SS-0.0-0.5	09.23.11	0835	SOIL	NONE	1-SS Sleeve			X	X																		
SL-062-SA7-SS-0.0-0.5	09.23.11	0835	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-066-SA7-SS-0.0-0.5	09.23.11	1412	SOIL	NONE	1-SS Sleeve			X	X																		
SL-066-SA7-SS-0.0-0.5	09.23.11	1412	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-067-SA7-SS-0.0-0.5	09.23.11	1459	SOIL	NONE	1-SS Sleeve			X	X																		
SL-067-SA7-SS-0.0-0.5	09.23.11	1459	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-068-SA7-SS-0.0-0.5	09.23.11	1432	SOIL	NONE	1-SS Sleeve			X	X																		
SL-068-SA7-SS-0.0-0.5	09.23.11	1432	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-069-SA7-SS-0.0-0.5	09.23.11	1231	SOIL	NONE	1-SS Sleeve			X	X																		
SL-069-SA7-SS-0.0-0.5	09.23.11	1231	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X					X	X	X	X		
SL-089-SA7-SS-0.0-0.5	09.23.11	0958	SOIL	NONE	1-SS Sleeve			X	X																		
SL-089-SA7-SS-0.0-0.5	09.23.11	0958	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-152-SA7-SS-0.0-0.5	09.23.11	1115	SOIL	NONE	1-SS Sleeve			X	X																		
SL-152-SA7-SS-0.0-0.5	09.23.11	1115	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-153-SA7-SS-0.0-0.5	09.23.11	1145	SOIL	NONE	1-SS Sleeve			X	X																		
SL-153-SA7-SS-0.0-0.5	09.23.11	1145	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		
SL-181-SA7-SS-0.0-0.5	09.23.11	1035	SOIL	NONE	1-SS Sleeve			X	X																		
SL-181-SA7-SS-0.0-0.5	09.23.11	1035	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	09/23/2011 / 1600		Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**	
		8754 3341 0851,0862,0873	

Brandy Bailey 9-24-11 900

acct# 13013 Gp# 1365213 Sample# 6418496-95

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) only, also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 8850 (10%)	VOCs: TPH GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonol EPA 8270	Other Instructions and Notes
SL-030-SA7-SB-4.0-5.0	09.23.11	0900	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X		X											
SL-073-SA7-SB-4.5	09.23.11	0955	SOIL	NONE	2-Encores										X											
SL-073-SA7-SB-4.0-5.0	09.23.11	1000	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X		
SL-076-SA7-SB-3.0	09.23.11	1055	SOIL	NONE	2-Encores										X											
SL-076-SA7-SB-2.5-3.5	09.23.11	1100	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X			X						X	X	X		
SL-028-SA7-SB-4.0-5.0	09.23.11	1418	SOIL	NONE	2-16 oz Jars										X											
SL-028-SA7-SB-8.0-9.0	09.23.11	1414	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
TB-092311	09.23.11	0800	WATER	NONE	2-10mL vials										X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	09/23/2011 / 1600		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8754 3341 0851,0862,0873	

Brandy Burkey
9-24-11 900

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 24, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/27/2011
Group Number: 1268381
SDG: DE254
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-102-SA7-SB-4.0-5.0 Soil	6419519
SL-102-SA7-SB-4.0-5.0 MS Soil	6419520
SL-102-SA7-SB-4.0-5.0 MSD Soil	6419521
SL-102-SA7-SB-4.0-5.0 DUP Soil	6419522
SL-102-SA7-SB-4.0-5.0 RL MS Soil	6419523
SL-102-SA7-SB-4.0-5.0 RL LCS Soil	6419524
SL-102-SA7-SB-9.0-10.0 Soil	6419525
SL-109-SA7-SB-4.0-5.0 Soil	6419526
SL-109-SA7-SB-9.0-10.0 Soil	6419527

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-102-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419519
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1024 SDG#: DE254-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.3	U	17.3	34.6	1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	2-butoxy-Ethanol	111-76-2	1,700	U	1,700	1,700	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-102-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419519
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1024 SDG#: DE254-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	2-phenoxy-Ethanol	122-99-6	1,700	U	1,700	1,700	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	1.4	J	0.70	1.7	1
10138	Acenaphthylene	208-96-8	1.2	J	0.35	1.7	1
10138	Anthracene	120-12-7	2.9		0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	2.9		0.70	1.7	1
10138	Benzo(a)pyrene	50-32-8	2.9		0.70	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	3.2		0.70	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	3.1		0.70	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	3.1		0.70	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	2.9		0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	3.0		0.70	1.7	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.3	U	6.3	19	1
10138	Fluoranthene	206-44-0	3.1		0.70	1.7	1
10138	Fluorene	86-73-7	2.4		0.70	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.0		0.70	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	2.9		0.70	1.7	1
10138	Pyrene	129-00-0	3.0		0.70	1.7	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0	24.7
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	630	U	630	1,600	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-102-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419519
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1024 SDG#: DE254-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520	1
10501	Isopropanol	67-63-0	100	U	100	520	1
10501	Methanol	67-56-1	100	U	100	520	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10	1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10	1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3	1
10199	EFH (C15-C20)	n.a.	0.42	U	0.42	1.3	1
10199	EFH (C21-C30)	n.a.	2.1		0.42	1.3	1
10199	EFH (C30 - C40)	n.a.	5.5		0.42	1.3	1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3	1

Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. The following corrective action was taken:
The sample was re-analyzed outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second analysis so all original results are reported.
Similar results were obtained in both trials.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,400		6.34	21.0	1
07914	Boron	7440-42-8	6.49		0.374	5.19	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-102-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419519
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1024 SDG#: DE254-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	3,550		2.59	20.8	1
01654	Iron	7439-89-6	19,100		2.71	20.8	1
01656	Lithium	7439-93-2	24.2		0.64	2.1	1
01657	Magnesium	7439-95-4	4,270		0.457	10.4	1
06958	Manganese	7439-96-5	230		0.0374	0.519	1
10145	Phosphorus	7723-14-0	273		0.363	10.4	1
01662	Potassium	7440-09-7	2,780		11.7	51.9	1
01667	Sodium	7440-23-5	130		6.18	104	1
07968	Strontium	7440-24-6	15.5		0.0259	0.519	1
06969	Tin	7440-31-5	2.82	J	0.332	10.4	1
06970	Titanium	7440-32-6	1,160		0.0737	1.04	1
10146	Zirconium	7440-67-7	1.35	J	0.477	5.19	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.143	J	0.0776	0.210	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.43		0.0839	0.419	2
06126	Barium	7440-39-3	100		0.111	0.419	2
06127	Beryllium	7440-41-7	0.765		0.0168	0.105	2
06128	Cadmium	7440-43-9	0.0840	J	0.0461	0.105	2
06131	Chromium	7440-47-3	19.8		0.126	0.419	2
06132	Cobalt	7440-48-4	6.22		0.0210	0.105	2
06133	Copper	7440-50-8	8.32		0.0839	0.419	2
06135	Lead	7439-92-1	6.21		0.0107	0.210	2
06138	Molybdenum	7439-98-7	0.592		0.0524	0.105	2
06139	Nickel	7440-02-0	12.2		0.105	0.419	2
06141	Selenium	7782-49-2	0.133	J	0.0608	0.419	2
06142	Silver	7440-22-4	0.0211	J	0.0149	0.105	2
06145	Thallium	7440-28-0	0.356		0.0314	0.105	2
06148	Vanadium	7440-62-2	42.3		0.0231	0.105	2
06149	Zinc	7440-66-6	71.1		0.587	3.14	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0121	J	0.0073	0.103	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.83	1.0	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.4		0.83	1.6	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-102-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419519
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1024 SDG#: DE254-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.19	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	4.6	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-102-SA7-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11274SLE026	10/06/2011 18:07	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11277SLE026	10/06/2011 17:05	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11278SLH026	10/11/2011 09:25	Brian K Graham	1
11630	NDMA Soil Microwave	SW-846 3546	1	11274SLE026	10/03/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11278SLH026	10/06/2011 11:50	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11277SLE026	10/05/2011 08:10	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11265A34B	09/29/2011 13:17	Carrie E Miller	24.7
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201127025668	09/27/2011 21:27	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201127025668	09/27/2011 21:28	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	3	201127125676	09/28/2011 17:06	Lois E Hiltz	n.a.
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670064A	09/29/2011 20:54	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112770011A	10/05/2011 15:49	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112770011A	10/04/2011 19:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670064A	09/28/2011 12:30	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112730032A	10/03/2011 18:39	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112720043A	09/30/2011 03:52	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112780040A	10/07/2011 23:46	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112780029A	10/08/2011 11:23	Heather E Williams	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-102-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419519
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1024 SDG#: DE254-01BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11238	EFH Extraction - Soils	SW-846 3550B	1	112780029A	10/06/2011 02:30	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	112780040A	10/06/2011 07:55	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112730032A	10/03/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112720043A	09/29/2011 18:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112805708002	10/10/2011 03:12	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112735708001	10/05/2011 02:05	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112735708001	10/05/2011 02:05	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112735708001	10/05/2011 02:05	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112735708001	10/05/2011 02:05	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112735708001	10/05/2011 02:05	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112735708001	10/05/2011 02:05	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112735708001	10/05/2011 02:05	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112735708001	10/05/2011 02:05	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112735708001	10/05/2011 02:05	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112735708001	10/05/2011 02:05	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112735708001	10/05/2011 02:05	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112735708001	10/05/2011 02:05	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112735708001	10/05/2011 02:05	John W Yanzuk II	1
06124	Antimony	SW-846 6020	2	112771026001A	10/05/2011 11:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	2	112771026001A	10/05/2011 11:35	Choon Y Tian	2
06126	Barium	SW-846 6020	2	112771026001D	10/05/2011 11:35	Choon Y Tian	2
06127	Beryllium	SW-846 6020	2	112771026001A	10/05/2011 11:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	2	112771026001A	10/05/2011 11:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	2	112771026001A	10/05/2011 11:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	2	112771026001A	10/05/2011 11:35	Choon Y Tian	2
06133	Copper	SW-846 6020	2	112771026001A	10/05/2011 11:35	Choon Y Tian	2
06135	Lead	SW-846 6020	2	112771026001A	10/05/2011 11:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	2	112771026001C	10/05/2011 11:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	2	112771026001A	10/05/2011 11:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	2	112771026001B	10/05/2011 11:35	Choon Y Tian	2
06142	Silver	SW-846 6020	2	112771026001A	10/05/2011 11:35	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	112771026001A	10/05/2011 11:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	2	112771026001A	10/05/2011 11:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	2	112771026001A	10/05/2011 11:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112735711001	10/03/2011 08:51	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112735708001	10/02/2011 20:25	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112805708002	10/09/2011 13:26	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112731026001	10/02/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112771026001	10/04/2011 23:33	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112735711001	10/02/2011 23:55	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11276621202A	10/05/2011 01:10	Ashley M Adams	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-102-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419519
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1024 SDG#: DE254-01BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11276621202A	10/05/2011 01:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621201B	10/05/2011 19:24	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11279243201A	10/08/2011 09:53	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11276621202A	10/03/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621201B	10/04/2011 08:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11283039401B	10/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11279243201A	10/06/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	2	11279162401A	10/06/2011 22:58	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-102-SA7-SB-4.0-5.0 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419520
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1024 SDG#: DE254-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	759		17.5	34.9	1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		17	170	1
04688	Acenaphthylene	208-96-8	1,900		17	170	1
04688	Aniline	62-53-3	1,200		170	520	1
04688	Anthracene	120-12-7	1,900		17	170	1
04688	Benzidine	92-87-5	2,800	J	1,200	3,500	1
04688	Benzo(a)anthracene	56-55-3	1,700		17	170	1
04688	Benzo(a)pyrene	50-32-8	1,900		17	170	1
04688	Benzo(b)fluoranthene	205-99-2	2,000		17	170	1
04688	Benzo(g,h,i)perylene	191-24-2	2,000		17	170	1
04688	Benzo(k)fluoranthene	207-08-9	1,700		17	170	1
04688	Benzoic acid	65-85-0	430	J	170	520	1
04688	Benzyl alcohol	100-51-6	1,800		170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		17	170	1
04688	2-butoxy-Ethanol	111-76-2	1,700	U	1,700	1,700	1
04688	Butylbenzylphthalate	85-68-7	1,900		17	170	1
04688	Di-n-butylphthalate	84-74-2	1,900		17	170	1
04688	Carbazole	86-74-8	1,800		17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		35	170	1
04688	4-Chloroaniline	106-47-8	970		69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600		17	170	1
04688	2-Chloronaphthalene	91-58-7	1,400		17	170	1
04688	2-Chlorophenol	95-57-8	1,900		17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,600		35	170	1
04688	Chrysene	218-01-9	1,600		17	170	1
04688	Dibenz(a,h)anthracene	53-70-3	1,900		17	170	1
04688	Dibenzofuran	132-64-9	1,700		17	170	1
04688	1,2-Dichlorobenzene	95-50-1	1,700		17	170	1
04688	1,3-Dichlorobenzene	541-73-1	1,700		17	170	1
04688	1,4-Dichlorobenzene	106-46-7	1,600		17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,200		100	350	1
04688	2,4-Dichlorophenol	120-83-2	1,700		17	170	1
04688	Diethylphthalate	84-66-2	1,800		17	170	1
04688	2,4-Dimethylphenol	105-67-9	1,800		35	170	1
04688	3,5-Dimethylphenol	108-68-9	1,800		35	170	1
04688	Dimethylphthalate	131-11-3	1,700		17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	480	J	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	1,700		35	170	1
04688	2,6-Dinitrotoluene	606-20-2	1,900		17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	1,900		17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,000		17	350	1
04688	Fluoranthene	206-44-0	1,800		17	170	1
04688	Fluorene	86-73-7	1,800		17	170	1
04688	Hexachlorobenzene	118-74-1	1,700		17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-102-SA7-SB-4.0-5.0 MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419520
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1024 SDG#: DE254-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobutadiene	87-68-3	1,600		69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	1,700		170	520	1
04688	Hexachloroethane	67-72-1	1,600		17	170	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	2,000		17	170	1
04688	Isophorone	78-59-1	1,700		17	170	1
04688	1-Methylnaphthalene	90-12-0	1,700		17	170	1
04688	2-Methylnaphthalene	91-57-6	1,800		17	170	1
04688	2-Methylphenol	95-48-7	1,900		35	170	1
04688	4-Methylphenol	106-44-5	1,800		35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,700		17	170	1
04688	2-Nitroaniline	88-74-4	1,800		17	170	1
04688	3-Nitroaniline	99-09-2	1,700		35	170	1
04688	4-Nitroaniline	100-01-6	1,200		69	170	1
04688	Nitrobenzene	98-95-3	1,700		17	170	1
04688	2-Nitrophenol	88-75-5	1,900		17	170	1
04688	4-Nitrophenol	100-02-7	1,500		170	520	1
04688	N-Nitrosodimethylamine	62-75-9	1,500		35	170	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600		17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	1,900		17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,000		17	170	1
04688	Pentachlorophenol	87-86-5	1,100		170	520	1
04688	Phenanthrene	85-01-8	1,800		17	170	1
04688	Phenol	108-95-2	1,700		17	170	1
04688	2-phenoxy-Ethanol	122-99-6	1,700	U	1,700	1,700	1
04688	Pyrene	129-00-0	1,800		17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	1,600		17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	1,800		35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	1,900		35	170	1
GC/MS Semivolatiles SW-846 8270C SIM			**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	34		0.70	1.7	1
10138	Acenaphthylene	208-96-8	33		0.35	1.7	1
10138	Anthracene	120-12-7	35		0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	34		0.70	1.7	1
10138	Benzo(a)pyrene	50-32-8	35		0.70	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	37		0.70	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	34		0.70	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	36		0.70	1.7	1
10138	Butylbenzylphthalate	85-68-7	41		6.3	19	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-102-SA7-SB-4.0-5.0 MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419520
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1024 SDG#: DE254-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Di-n-butylphthalate	84-74-2	39		6.3	19	1
10138	Chrysene	218-01-9	34		0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	35		0.70	1.7	1
10138	Diethylphthalate	84-66-2	35		6.3	19	1
10138	Dimethylphthalate	131-11-3	36		6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	40		6.3	19	1
10138	Fluoranthene	206-44-0	37		0.70	1.7	1
10138	Fluorene	86-73-7	36		0.70	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	35		0.70	1.7	1
10138	1-Methylnaphthalene	90-12-0	32		0.70	1.7	1
10138	2-Methylnaphthalene	91-57-6	32		0.70	1.7	1
10138	Naphthalene	91-20-3	33		0.70	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	33		0.70	1.7	1
10138	Di-n-octylphthalate	117-84-0	39		6.3	19	1
10138	Phenanthrene	85-01-8	33		0.70	1.7	1
10138	Pyrene	129-00-0	34		0.70	1.7	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	7.8		0.2	1	22.77
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	5,500		630	1,600	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	14		0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	17		0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,300		100	520	1
10501	Isopropanol	67-63-0	2,200		100	520	1
10501	Methanol	67-56-1	2,300		100	520	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	46		5.2	10	1
08283	Ethylene glycol	107-21-1	120		5.2	10	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-102-SA7-SB-4.0-5.0 MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419520
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1024 SDG#: DE254-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Propylene glycol	57-55-6	120		5.2	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	6.5		1.6	3.7	1
10318	o-Terphenyl	84-15-1	6.8		1.6	3.7	1
10318	p-Terphenyl	92-94-4	6.9		1.6	3.7	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	1.5		0.42	1.2	1
10199	EFH (C15-C20)	n.a.	2.7		0.42	1.2	1
10199	EFH (C21-C30)	n.a.	6.7		0.42	1.2	1
10199	EFH (C30 - C40)	n.a.	12		0.42	1.2	1
10199	EFH (C8-C11)	n.a.	1.2	J	0.42	1.2	1

Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. The following corrective action was taken:
The sample was re-analyzed outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second analysis so all original results are reported.
Similar results were obtained in both trials.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,900		6.28	20.8	1
07914	Boron	7440-42-8	211		0.370	5.14	1
01650	Calcium	7440-70-2	3,750		2.57	20.6	1
01654	Iron	7439-89-6	18,900		2.68	20.6	1
01656	Lithium	7439-93-2	127		0.64	2.1	1
01657	Magnesium	7439-95-4	4,440		0.452	10.3	1
06958	Manganese	7439-96-5	272		0.0370	0.514	1
10145	Phosphorus	7723-14-0	365		0.360	10.3	1
01662	Potassium	7440-09-7	3,770		11.6	51.4	1
01667	Sodium	7440-23-5	1,160		6.11	103	1
07968	Strontium	7440-24-6	117		0.0257	0.514	1
06969	Tin	7440-31-5	371		0.329	10.3	1
06970	Titanium	7440-32-6	1,370		0.0730	1.03	1
10146	Zirconium	7440-67-7	104		0.473	5.14	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.968		0.0768	0.208	2

Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.

06125	Arsenic	7440-38-2	8.42		0.0830	0.415	2
06126	Barium	7440-39-3	115		0.110	0.415	2
06127	Beryllium	7440-41-7	1.87		0.0166	0.104	2
06128	Cadmium	7440-43-9	1.59		0.0457	0.104	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-102-SA7-SB-4.0-5.0 MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419520
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1024 SDG#: DE254-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	32.3	0.125	0.415	2
06132	Cobalt	7440-48-4	79.0	0.0208	0.104	2
06133	Copper	7440-50-8	23.4	0.0830	0.415	2
06135	Lead	7439-92-1	10.4	0.0106	0.208	2
06138	Molybdenum	7439-98-7	15.4	0.0519	0.104	2
06139	Nickel	7440-02-0	26.6	0.104	0.415	2
06141	Selenium	7782-49-2	2.79	0.0602	0.415	2
06142	Silver	7440-22-4	14.7	0.0147	0.104	2
06145	Thallium	7440-28-0	0.904	0.0311	0.104	2
06148	Vanadium	7440-62-2	55.8	0.0228	0.104	2
06149	Zinc	7440-66-6	83.3	0.581	3.11	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.181	0.0069	0.0988	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.8	0.85	1.1	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	11.5	0.85	1.6	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	587	9.4	31.4	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	34.6	1.0	5.1	5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	4.6	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-102-SA7-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11274SLE026	10/06/2011 18:26	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11277SLE026	10/06/2011 17:30	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11278SLH026	10/11/2011 09:57	Brian K Graham	1
11630	NDMA Soil Microwave	SW-846 3546	1	11274SLE026	10/03/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11278SLH026	10/06/2011 11:50	Kelli M Barto	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-102-SA7-SB-4.0-5.0 MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419520
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1024 SDG#: DE254-01MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00381	BNA Soil Sonication	SW-846 3550B	1	11277SLE026	10/05/2011 08:10	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11265A34B	09/29/2011 13:53	Carrie E Miller	22.77
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201127025668	09/27/2011 21:29	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201127125676	09/28/2011 17:08	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	3	201127125676	09/28/2011 17:09	Lois E Hiltz	n.a.
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670064A	09/29/2011 21:04	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112770011A	10/05/2011 16:07	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112770011A	10/04/2011 19:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670064A	09/28/2011 12:30	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112730032A	10/03/2011 18:56	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112720043A	09/30/2011 04:04	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112780040A	10/08/2011 00:13	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112780029A	10/08/2011 11:46	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112780029A	10/06/2011 02:30	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	112780040A	10/06/2011 07:55	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112730032A	10/03/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112720043A	09/29/2011 18:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112805708002	10/10/2011 03:24	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112735708001	10/05/2011 02:18	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112735708001	10/05/2011 02:18	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112735708001	10/05/2011 02:18	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112735708001	10/05/2011 02:18	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112735708001	10/05/2011 02:18	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112735708001	10/05/2011 02:18	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112735708001	10/05/2011 02:18	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112735708001	10/05/2011 02:18	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112735708001	10/05/2011 02:18	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112735708001	10/05/2011 02:18	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112735708001	10/05/2011 02:18	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112735708001	10/05/2011 02:18	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112735708001	10/05/2011 02:18	John W Yanzuk II	1
06124	Antimony	SW-846 6020	2	112771026001A	10/05/2011 11:44	Choon Y Tian	2
06125	Arsenic	SW-846 6020	2	112771026001A	10/05/2011 11:44	Choon Y Tian	2
06126	Barium	SW-846 6020	2	112771026001D	10/05/2011 11:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	2	112771026001A	10/05/2011 11:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	2	112771026001A	10/05/2011 11:44	Choon Y Tian	2
06131	Chromium	SW-846 6020	2	112771026001A	10/05/2011 11:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	2	112771026001A	10/05/2011 11:44	Choon Y Tian	2
06133	Copper	SW-846 6020	2	112771026001A	10/05/2011 11:44	Choon Y Tian	2
06135	Lead	SW-846 6020	2	112771026001A	10/05/2011 11:44	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-102-SA7-SB-4.0-5.0 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419520
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1024 SDG#: DE254-01MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	2	112771026001C	10/05/2011 11:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	2	112771026001A	10/05/2011 11:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	2	112771026001B	10/05/2011 11:44	Choon Y Tian	2
06142	Silver	SW-846 6020	2	112771026001A	10/05/2011 11:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	112771026001A	10/05/2011 11:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	2	112771026001A	10/05/2011 11:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	2	112771026001A	10/05/2011 11:44	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112735711001	10/03/2011 08:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112735708001	10/02/2011 20:25	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112805708002	10/09/2011 13:26	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112731026001	10/02/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112771026001	10/04/2011 23:33	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112735711001	10/02/2011 23:55	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11276621202A	10/05/2011 01:35	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11276621202A	10/05/2011 01:35	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621201B	10/05/2011 20:33	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11279243201A	10/08/2011 10:14	Elyse P Brunstetter	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11276621202A	10/03/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621201B	10/04/2011 08:00	William L Hamaker Jr	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11279243201A	10/06/2011 11:30	Michelle L Lalli	1
11625	Moisture Content by 160.3	EPA 160.3 modified	2	11279162401A	10/06/2011 22:58	Scott W Freisher	1

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Analysis Report

Sample Description: SL-102-SA7-SB-4.0-5.0 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419521
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1024 SDG#: DE254-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	783		17.4	34.7	1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,700		17	170	1
04688	Acenaphthylene	208-96-8	1,900		17	170	1
04688	Aniline	62-53-3	1,200		170	520	1
04688	Anthracene	120-12-7	1,800		17	170	1
04688	Benzidine	92-87-5	3,600		1,200	3,500	1
04688	Benzo(a)anthracene	56-55-3	1,600		17	170	1
04688	Benzo(a)pyrene	50-32-8	1,800		17	170	1
04688	Benzo(b)fluoranthene	205-99-2	2,000		17	170	1
04688	Benzo(g,h,i)perylene	191-24-2	1,900		17	170	1
04688	Benzo(k)fluoranthene	207-08-9	1,700		17	170	1
04688	Benzoic acid	65-85-0	620		170	520	1
04688	Benzyl alcohol	100-51-6	1,700		170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		17	170	1
04688	2-butoxy-Ethanol	111-76-2	1,700	U	1,700	1,700	1
04688	Butylbenzylphthalate	85-68-7	1,900		17	170	1
04688	Di-n-butylphthalate	84-74-2	1,800		17	170	1
04688	Carbazole	86-74-8	1,800		17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		35	170	1
04688	4-Chloroaniline	106-47-8	1,200		69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,600		17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,500		17	170	1
04688	2-Chloronaphthalene	91-58-7	1,400		17	170	1
04688	2-Chlorophenol	95-57-8	1,800		17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,600		35	170	1
04688	Chrysene	218-01-9	1,600		17	170	1
04688	Dibenz(a,h)anthracene	53-70-3	2,000		17	170	1
04688	Dibenzofuran	132-64-9	1,700		17	170	1
04688	1,2-Dichlorobenzene	95-50-1	1,600		17	170	1
04688	1,3-Dichlorobenzene	541-73-1	1,600		17	170	1
04688	1,4-Dichlorobenzene	106-46-7	1,600		17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,300		100	350	1
04688	2,4-Dichlorophenol	120-83-2	1,800		17	170	1
04688	Diethylphthalate	84-66-2	1,700		17	170	1
04688	2,4-Dimethylphenol	105-67-9	1,800		35	170	1
04688	3,5-Dimethylphenol	108-68-9	1,800		35	170	1
04688	Dimethylphthalate	131-11-3	1,700		17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	370	J	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	1,700		35	170	1
04688	2,6-Dinitrotoluene	606-20-2	1,800		17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	1,900		17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,900		17	350	1
04688	Fluoranthene	206-44-0	1,700		17	170	1
04688	Fluorene	86-73-7	1,800		17	170	1
04688	Hexachlorobenzene	118-74-1	1,600		17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-102-SA7-SB-4.0-5.0 MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419521
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1024 SDG#: DE254-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Hexachlorobutadiene	87-68-3	1,600		69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	1,800		170	520	1
04688	Hexachloroethane	67-72-1	1,600		17	170	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900		17	170	1
04688	Isophorone	78-59-1	1,700		17	170	1
04688	1-Methylnaphthalene	90-12-0	1,700		17	170	1
04688	2-Methylnaphthalene	91-57-6	1,700		17	170	1
04688	2-Methylphenol	95-48-7	1,700		35	170	1
04688	4-Methylphenol	106-44-5	1,700		35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,700		17	170	1
04688	2-Nitroaniline	88-74-4	1,700		17	170	1
04688	3-Nitroaniline	99-09-2	1,700		35	170	1
04688	4-Nitroaniline	100-01-6	1,200		69	170	1
04688	Nitrobenzene	98-95-3	1,700		17	170	1
04688	2-Nitrophenol	88-75-5	1,900		17	170	1
04688	4-Nitrophenol	100-02-7	1,500		170	520	1
04688	N-Nitrosodimethylamine	62-75-9	1,500		35	170	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,500		17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	1,800		17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,000		17	170	1
04688	Pentachlorophenol	87-86-5	1,100		170	520	1
04688	Phenanthrene	85-01-8	1,700		17	170	1
04688	Phenol	108-95-2	1,600		17	170	1
04688	2-phenoxy-Ethanol	122-99-6	1,700	U	1,700	1,700	1
04688	Pyrene	129-00-0	1,700		17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	1,600		17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	1,700		35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	1,800		35	170	1
GC/MS Semivolatiles SW-846 8270C SIM			**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	34		0.70	1.7	1
10138	Acenaphthylene	208-96-8	32		0.35	1.7	1
10138	Anthracene	120-12-7	35		0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	35		0.70	1.7	1
10138	Benzo(a)pyrene	50-32-8	35		0.70	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	37		0.70	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	34		0.70	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	37		0.70	1.7	1
10138	Butylbenzylphthalate	85-68-7	39		6.3	19	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-102-SA7-SB-4.0-5.0 MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419521
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1024 SDG#: DE254-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Di-n-butylphthalate	84-74-2	39		6.3	19	1
10138	Chrysene	218-01-9	35		0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	36		0.70	1.7	1
10138	Diethylphthalate	84-66-2	36		6.3	19	1
10138	Dimethylphthalate	131-11-3	36		6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	42		6.3	19	1
10138	Fluoranthene	206-44-0	37		0.70	1.7	1
10138	Fluorene	86-73-7	36		0.70	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	35		0.70	1.7	1
10138	1-Methylnaphthalene	90-12-0	30		0.70	1.7	1
10138	2-Methylnaphthalene	91-57-6	30		0.70	1.7	1
10138	Naphthalene	91-20-3	30		0.70	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	31		0.70	1.7	1
10138	Di-n-octylphthalate	117-84-0	39		6.3	19	1
10138	Phenanthrene	85-01-8	34		0.70	1.7	1
10138	Pyrene	129-00-0	35		0.70	1.7	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	9.2		0.2	1	23.15
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	5,100		630	1,600	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.5	1
10225	PCB-1016	12674-11-2	14		0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	14		0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	1,800		100	520	1
10501	Isopropanol	67-63-0	1,700		100	520	1
10501	Methanol	67-56-1	1,800		100	520	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	60		5.2	10	1
08283	Ethylene glycol	107-21-1	120		5.2	10	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-102-SA7-SB-4.0-5.0 MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419521
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1024 SDG#: DE254-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Propylene glycol	57-55-6	130	5.2	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	7.0	1.6	3.6	1
10318	o-Terphenyl	84-15-1	7.3	1.6	3.6	1
10318	p-Terphenyl	92-94-4	7.4	1.6	3.6	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	1.6	0.42	1.3	1
10199	EFH (C15-C20)	n.a.	3.1	0.42	1.3	1
10199	EFH (C21-C30)	n.a.	11	0.42	1.3	1
10199	EFH (C30 - C40)	n.a.	17	0.42	1.3	1
10199	EFH (C8-C11)	n.a.	1.3	0.42	1.3	1

Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. The following corrective action was taken:
The sample was re-analyzed outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second analysis so all original results are reported.
Similar results were obtained in both trials.

Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,300	6.28	20.8	1
07914	Boron	7440-42-8	209	0.370	5.14	1
01650	Calcium	7440-70-2	4,100	2.57	20.6	1
01654	Iron	7439-89-6	18,900	2.68	20.6	1
01656	Lithium	7439-93-2	127	0.64	2.1	1
01657	Magnesium	7439-95-4	4,600	0.452	10.3	1
06958	Manganese	7439-96-5	275	0.0370	0.514	1
10145	Phosphorus	7723-14-0	394	0.360	10.3	1
01662	Potassium	7440-09-7	3,870	11.6	51.4	1
01667	Sodium	7440-23-5	1,150	6.11	103	1
07968	Strontium	7440-24-6	118	0.0257	0.514	1
06969	Tin	7440-31-5	368	0.329	10.3	1
06970	Titanium	7440-32-6	1,390	0.0730	1.03	1
10146	Zirconium	7440-67-7	104	0.473	5.14	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.887	0.0753	0.204	2

Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.

06125	Arsenic	7440-38-2	8.07	0.0814	0.407	2
06126	Barium	7440-39-3	113	0.108	0.407	2
06127	Beryllium	7440-41-7	1.78	0.0163	0.102	2
06128	Cadmium	7440-43-9	1.44	0.0448	0.102	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-102-SA7-SB-4.0-5.0 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419521
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1024 SDG#: DE254-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	
06131	Chromium	7440-47-3	30.1	0.122	0.407	2
06132	Cobalt	7440-48-4	71.3	0.0204	0.102	2
06133	Copper	7440-50-8	21.4	0.0814	0.407	2
06135	Lead	7439-92-1	9.83	0.0104	0.204	2
06138	Molybdenum	7439-98-7	14.2	0.0509	0.102	2
06139	Nickel	7440-02-0	24.9	0.102	0.407	2
06141	Selenium	7782-49-2	2.57	0.0590	0.407	2
06142	Silver	7440-22-4	13.3	0.0145	0.102	2
06145	Thallium	7440-28-0	0.820	0.0305	0.102	2
06148	Vanadium	7440-62-2	52.9	0.0224	0.102	2
06149	Zinc	7440-66-6	78.2	0.570	3.05	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.181	0.0069	0.0978	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.6	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-102-SA7-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11274SLE026	10/06/2011 18:45	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11277SLE026	10/06/2011 17:55	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11278SLH026	10/11/2011 10:30	Brian K Graham	1
11630	NDMA Soil Microwave	SW-846 3546	1	11274SLE026	10/03/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11278SLH026	10/06/2011 11:50	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11277SLE026	10/05/2011 08:10	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11265A34B	09/29/2011 14:30	Carrie E Miller	23.15
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201127025668	09/27/2011 21:30	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201127125676	09/28/2011 17:07	Lois E Hiltz	n.a.
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670064A	09/29/2011 21:13	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112770011A	10/05/2011 16:26	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112770011A	10/04/2011 19:00	Sally L Appleyard	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-102-SA7-SB-4.0-5.0 MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419521
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1024 SDG#: DE254-01MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670064A	09/28/2011 12:30	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112730032A	10/03/2011 19:12	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112720043A	09/30/2011 04:17	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112780040A	10/08/2011 00:40	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112780029A	10/08/2011 12:10	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112780029A	10/06/2011 02:30	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	112780040A	10/06/2011 07:55	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112730032A	10/03/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112720043A	09/29/2011 18:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112805708002	10/10/2011 03:28	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112735708001	10/05/2011 02:22	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112735708001	10/05/2011 02:22	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112735708001	10/05/2011 02:22	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112735708001	10/05/2011 02:22	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112735708001	10/05/2011 02:22	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112735708001	10/05/2011 02:22	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112735708001	10/05/2011 02:22	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112735708001	10/05/2011 02:22	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112735708001	10/05/2011 02:22	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112735708001	10/05/2011 02:22	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112735708001	10/05/2011 02:22	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112735708001	10/05/2011 02:22	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112735708001	10/05/2011 02:22	John W Yanzuk II	1
06124	Antimony	SW-846 6020	2	112771026001A	10/05/2011 11:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	2	112771026001A	10/05/2011 11:47	Choon Y Tian	2
06126	Barium	SW-846 6020	2	112771026001D	10/05/2011 11:47	Choon Y Tian	2
06127	Beryllium	SW-846 6020	2	112771026001A	10/05/2011 11:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	2	112771026001A	10/05/2011 11:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	2	112771026001A	10/05/2011 11:47	Choon Y Tian	2
06132	Cobalt	SW-846 6020	2	112771026001A	10/05/2011 11:47	Choon Y Tian	2
06133	Copper	SW-846 6020	2	112771026001A	10/05/2011 11:47	Choon Y Tian	2
06135	Lead	SW-846 6020	2	112771026001A	10/05/2011 11:47	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	2	112771026001C	10/05/2011 11:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	2	112771026001A	10/05/2011 11:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	2	112771026001B	10/05/2011 11:47	Choon Y Tian	2
06142	Silver	SW-846 6020	2	112771026001A	10/05/2011 11:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	112771026001A	10/05/2011 11:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	2	112771026001A	10/05/2011 11:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	2	112771026001A	10/05/2011 11:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112735711001	10/03/2011 08:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112735708001	10/02/2011 20:25	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112805708002	10/09/2011 13:26	James L Mertz	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-102-SA7-SB-4.0-5.0 MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419521
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1024 SDG#: DE254-01MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112731026001	10/02/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112771026001	10/04/2011 23:33	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112735711001	10/02/2011 23:55	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	2	11279162401A	10/06/2011 22:58	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-102-SA7-SB-4.0-5.0 DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419522
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1024 SDG#: DE254-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,900		6.04	20.0	1
07914	Boron	7440-42-8	5.98		0.370	5.14	1
01650	Calcium	7440-70-2	3,750		2.57	20.6	1
01654	Iron	7439-89-6	18,900		2.68	20.6	1
01656	Lithium	7439-93-2	24.5		0.64	2.1	1
01657	Magnesium	7439-95-4	4,250		0.452	10.3	1
06958	Manganese	7439-96-5	226		0.0370	0.514	1
10145	Phosphorus	7723-14-0	303		0.360	10.3	1
01662	Potassium	7440-09-7	2,580		11.6	51.4	1
01667	Sodium	7440-23-5	124		6.11	103	1
07968	Strontium	7440-24-6	15.6		0.0257	0.514	1
06969	Tin	7440-31-5	2.86	J	0.329	10.3	1
06970	Titanium	7440-32-6	1,160		0.0730	1.03	1
10146	Zirconium	7440-67-7	2.44	J	0.473	5.14	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.125	J	0.0760	0.206	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.64		0.0822	0.411	2
06126	Barium	7440-39-3	105		0.109	0.411	2
06127	Beryllium	7440-41-7	0.734		0.0164	0.103	2
06128	Cadmium	7440-43-9	0.0886	J	0.0452	0.103	2
06131	Chromium	7440-47-3	18.4		0.123	0.411	2
06132	Cobalt	7440-48-4	6.10		0.0206	0.103	2
06133	Copper	7440-50-8	8.43		0.0822	0.411	2
06135	Lead	7439-92-1	6.11		0.0105	0.206	2
06138	Molybdenum	7439-98-7	0.601		0.0514	0.103	2
06139	Nickel	7440-02-0	11.9		0.103	0.411	2
06141	Selenium	7782-49-2	0.140	J	0.0596	0.411	2
06142	Silver	7440-22-4	0.0250	J	0.0146	0.103	2
06145	Thallium	7440-28-0	0.337		0.0308	0.103	2
06148	Vanadium	7440-62-2	41.2		0.0226	0.103	2
06149	Zinc	7440-66-6	70.5		0.575	3.08	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0070	U	0.0070	0.100	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.85	1.1	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.1		0.85	1.6	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-102-SA7-SB-4.0-5.0 DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419522
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1024 SDG#: DE254-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.19	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11626	28a Moisture Content by 160.3	n.a.	4.9	0.50	0.50	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					
11625	Moisture Content by 160.3	n.a.	4.6	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	112805708002	10/10/2011 03:20	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112735708001	10/05/2011 02:13	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112735708001	10/05/2011 02:13	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112735708001	10/05/2011 02:13	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112735708001	10/05/2011 02:13	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112735708001	10/05/2011 02:13	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112735708001	10/05/2011 02:13	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112735708001	10/05/2011 02:13	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112735708001	10/05/2011 02:13	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112735708001	10/05/2011 02:13	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112735708001	10/05/2011 02:13	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112735708001	10/05/2011 02:13	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112735708001	10/05/2011 02:13	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112735708001	10/05/2011 02:13	John W Yanzuk II	1
06124	Antimony	SW-846 6020	2	112771026001A	10/05/2011 11:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	2	112771026001A	10/05/2011 11:41	Choon Y Tian	2
06126	Barium	SW-846 6020	2	112771026001D	10/05/2011 11:41	Choon Y Tian	2
06127	Beryllium	SW-846 6020	2	112771026001A	10/05/2011 11:41	Choon Y Tian	2
06128	Cadmium	SW-846 6020	2	112771026001A	10/05/2011 11:41	Choon Y Tian	2
06131	Chromium	SW-846 6020	2	112771026001A	10/05/2011 11:41	Choon Y Tian	2
06132	Cobalt	SW-846 6020	2	112771026001A	10/05/2011 11:41	Choon Y Tian	2
06133	Copper	SW-846 6020	2	112771026001A	10/05/2011 11:41	Choon Y Tian	2
06135	Lead	SW-846 6020	2	112771026001A	10/05/2011 11:41	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	2	112771026001C	10/05/2011 11:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	2	112771026001A	10/05/2011 11:41	Choon Y Tian	2
06141	Selenium	SW-846 6020	2	112771026001B	10/05/2011 11:41	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-102-SA7-SB-4.0-5.0 DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419522
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1024 SDG#: DE254-01DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	2	112771026001A	10/05/2011 11:41	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	112771026001A	10/05/2011 11:41	Choon Y Tian	2
06148	Vanadium	SW-846 6020	2	112771026001A	10/05/2011 11:41	Choon Y Tian	2
06149	Zinc	SW-846 6020	2	112771026001A	10/05/2011 11:41	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112735711001	10/03/2011 08:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112735708001	10/02/2011 20:25	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112805708002	10/09/2011 13:26	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112731026001	10/02/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112771026001	10/04/2011 23:33	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112735711001	10/02/2011 23:55	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11276621202A	10/05/2011 01:23	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11276621202A	10/05/2011 01:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621201B	10/05/2011 19:47	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11279243201A	10/08/2011 10:47	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11276621202A	10/03/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621201B	10/04/2011 08:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11283039401B	10/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11279243201A	10/06/2011 11:30	Michelle L Lalli	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	2	11279162401A	10/06/2011 22:58	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	2	11279162401A	10/06/2011 22:58	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-102-SA7-SB-4.0-5.0 RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419523
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1024 SDG#: DE254-01RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	1,900		630	1,600	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.5	1
10225	PCB-1016	12674-11-2	1.8		0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	2.0		0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	610		100	520	1
10501	Isopropanol	67-63-0	540		100	520	1
10501	Methanol	67-56-1	610		100	520	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.74	J	0.42	1.2	1
10199	EFH (C15-C20)	n.a.	1.5		0.42	1.2	1
10199	EFH (C21-C30)	n.a.	5.8		0.42	1.2	1
10199	EFH (C30 - C40)	n.a.	10		0.42	1.2	1
10199	EFH (C8-C11)	n.a.	0.53	J	0.42	1.2	1

Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. The following corrective action was taken:
The sample was re-analyzed outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second analysis so all original results are reported.
Similar results were obtained in both trials.

Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11625	Moisture Content by 160.3	n.a.	4.6		0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-102-SA7-SB-4.0-5.0 RL MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419523
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1024 SDG#: DE254-01RLR

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670064A	09/29/2011 21:23	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112770011A	10/05/2011 16:45	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112770011A	10/04/2011 19:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670064A	09/28/2011 12:30	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112730032A	10/03/2011 19:28	Elizabeth J Marin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112780040A	10/08/2011 01:08	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112780029A	10/08/2011 12:34	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112780029A	10/06/2011 02:30	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	112780040A	10/06/2011 07:55	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112730032A	10/03/2011 16:00	Elizabeth J Marin	1
11625	Moisture Content by 160.3	EPA 160.3 modified	2	11279162401A	10/06/2011 22:58	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-102-SA7-SB-4.0-5.0 RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419524
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1024 SDG#: DE254-01RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	1,900		600	1,500	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3	1
10225	PCB-1016	12674-11-2	1.7		0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7	1
10225	PCB-1260	11096-82-5	2.1		0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	620		100	500	1
10501	Isopropanol	67-63-0	530		100	500	1
10501	Methanol	67-56-1	610		100	500	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.5	1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.5	1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.73	J	0.40	1.2	1
10199	EFH (C15-C20)	n.a.	1.3		0.40	1.2	1
10199	EFH (C21-C30)	n.a.	3.2		0.40	1.2	1
10199	EFH (C30 - C40)	n.a.	6.5		0.40	1.2	1
10199	EFH (C8-C11)	n.a.	0.60	J	0.40	1.2	1

Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. The following corrective action was taken:
The sample was re-analyzed outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second analysis so all original results are reported.
Similar results were obtained in both trials.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-102-SA7-SB-4.0-5.0 RL LCS Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419524
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1024 SDG#: DE254-01RLQ

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670064A	09/29/2011 21:32	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112770011A	10/05/2011 17:04	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112770011A	10/04/2011 19:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670064A	09/28/2011 12:30	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112730032A	10/03/2011 19:45	Elizabeth J Marin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112780040A	10/08/2011 01:35	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112780029A	10/08/2011 12:58	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112780029A	10/06/2011 02:30	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	112780040A	10/06/2011 07:55	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112730032A	10/03/2011 16:00	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-102-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-9.0-10.0

LLI Sample # SW 6419525
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:30

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1029 SDG#: DE254-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.1	U	19.1	38.2	1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	580	1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900	1
04688	Benzoic acid	65-85-0	190	U	190	580	1
04688	Benzyl alcohol	100-51-6	190	U	190	580	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	2-butoxy-Ethanol	111-76-2	1,900	U	1,900	1,900	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190	1
04688	4-Chloroaniline	106-47-8	77	U	77	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190	1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580	1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200	1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	77	U	77	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	39	U	39	190	1
04688	4-Methylphenol	106-44-5	39	U	39	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	39	U	39	190	1
04688	4-Nitroaniline	100-01-6	77	U	77	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	580	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-102-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-9.0-10.0

LLI Sample # SW 6419525
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:30

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1029 SDG#: DE254-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	580	1
04688	Phenol	108-95-2	19	U	19	190	1
04688	2-phenoxy-Ethanol	122-99-6	1,900	U	1,900	1,900	1
04688	Tetralin	119-64-2	190	U	190	190	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.47	J	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21	1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21	1
10138	Chrysene	218-01-9	0.71	J	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9	1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21	1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9	1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9	1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21	1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9	1
10138	Pyrene	129-00-0	0.87	J	0.77	1.9	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9	20.33
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	700	U	700	1,700	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-102-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-9.0-10.0

LLI Sample # SW 6419525
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:30

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1029 SDG#: DE254-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580	1
10501	Isopropanol	67-63-0	120	U	120	580	1
10501	Methanol	67-56-1	120	U	120	580	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12	1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12	1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.1	1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.1	1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.1	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.46	U	0.46	1.4	1
10199	EFH (C15-C20)	n.a.	0.46	U	0.46	1.4	1
10199	EFH (C21-C30)	n.a.	3.0		0.46	1.4	1
10199	EFH (C30 - C40)	n.a.	6.8		0.46	1.4	1
10199	EFH (C8-C11)	n.a.	0.46	U	0.46	1.4	1

Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. The following corrective action was taken:
The sample was re-analyzed outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second analysis so all original results are reported.
Similar results were obtained in both trials.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,100		6.68	22.1	1
07914	Boron	7440-42-8	19.1		0.413	5.74	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-102-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-9.0-10.0

LLI Sample # SW 6419525
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:30

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1029 SDG#: DE254-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	12,800		2.87	23.0	1
01654	Iron	7439-89-6	35,400		15.0	115	5
01656	Lithium	7439-93-2	28.8		0.71	2.3	1
01657	Magnesium	7439-95-4	7,390		0.505	11.5	1
06958	Manganese	7439-96-5	347		0.0413	0.574	1
10145	Phosphorus	7723-14-0	351		0.402	11.5	1
01662	Potassium	7440-09-7	4,180		13.0	57.4	1
01667	Sodium	7440-23-5	196		6.83	115	1
07968	Strontium	7440-24-6	42.7		0.0287	0.574	1
06969	Tin	7440-31-5	3.02	J	0.368	11.5	1
06970	Titanium	7440-32-6	1,610		0.0816	1.15	1
10146	Zirconium	7440-67-7	4.98	J	0.528	5.74	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.275		0.0833	0.225	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.05		0.0901	0.451	2
06126	Barium	7440-39-3	169		0.119	0.451	2
06127	Beryllium	7440-41-7	1.00		0.0180	0.113	2
06128	Cadmium	7440-43-9	0.291		0.0496	0.113	2
06131	Chromium	7440-47-3	37.2		0.135	0.451	2
06132	Cobalt	7440-48-4	13.0		0.0225	0.113	2
06133	Copper	7440-50-8	18.4		0.0901	0.451	2
06135	Lead	7439-92-1	10.5		0.0115	0.225	2
06138	Molybdenum	7439-98-7	0.759		0.0563	0.113	2
06139	Nickel	7440-02-0	25.8		0.113	0.451	2
06141	Selenium	7782-49-2	0.137	J	0.0653	0.451	2
06142	Silver	7440-22-4	0.0510	J	0.0160	0.113	2
06145	Thallium	7440-28-0	0.430		0.0338	0.113	2
06148	Vanadium	7440-62-2	76.8		0.0248	0.113	2
06149	Zinc	7440-66-6	84.7		0.631	3.38	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0116	J	0.0079	0.112	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.5		0.94	1.2	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	7.1		0.94	1.8	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.61	J	0.24	1.2	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-102-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-9.0-10.0

LLI Sample # SW 6419525
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:30

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1029 SDG#: DE254-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.92	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	13.8	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-102-SA7-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11274SLE026	10/06/2011 19:04	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11277SLE026	10/06/2011 18:20	Linda M Hartenstine	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11278SLH026	10/11/2011 11:02	Brian K Graham	1
11630	NDMA Soil Microwave	SW-846 3546	1	11274SLE026	10/03/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11278SLH026	10/06/2011 11:50	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11277SLE026	10/05/2011 08:10	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11265A34B	09/29/2011 15:06	Carrie E Miller	20.33
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201127025668	09/27/2011 21:31	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201127025668	09/27/2011 21:32	Lois E Hiltz	n.a.
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670064A	09/29/2011 21:42	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112770011A	10/05/2011 17:22	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112770011A	10/04/2011 19:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670064A	09/28/2011 12:30	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112730032A	10/03/2011 20:18	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112720043A	09/30/2011 04:30	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112780040A	10/08/2011 02:02	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112780029A	10/08/2011 13:22	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112780029A	10/06/2011 02:30	Sherry L Morrow	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-102-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-9.0-10.0

LLI Sample # SW 6419525
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:30

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1029 SDG#: DE254-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10303	Terphenyls soil prep	SW-846 3550B	1	112780040A	10/06/2011 07:55	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112730032A	10/03/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112720043A	09/29/2011 18:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112805708002	10/10/2011 03:36	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112735708001	10/05/2011 02:30	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112735708001	10/05/2011 02:30	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112735708001	10/07/2011 05:46	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	112735708001	10/05/2011 02:30	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112735708001	10/05/2011 02:30	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112735708001	10/05/2011 02:30	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112735708001	10/05/2011 02:30	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112735708001	10/05/2011 02:30	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112735708001	10/05/2011 02:30	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112735708001	10/05/2011 02:30	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112735708001	10/05/2011 02:30	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112735708001	10/05/2011 02:30	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112735708001	10/05/2011 02:30	John W Yanzuk II	1
06124	Antimony	SW-846 6020	2	112771026001A	10/05/2011 11:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	2	112771026001A	10/05/2011 11:59	Choon Y Tian	2
06126	Barium	SW-846 6020	2	112771026001D	10/05/2011 11:59	Choon Y Tian	2
06127	Beryllium	SW-846 6020	2	112771026001A	10/05/2011 11:59	Choon Y Tian	2
06128	Cadmium	SW-846 6020	2	112771026001A	10/05/2011 11:59	Choon Y Tian	2
06131	Chromium	SW-846 6020	2	112771026001A	10/05/2011 11:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	2	112771026001A	10/05/2011 11:59	Choon Y Tian	2
06133	Copper	SW-846 6020	2	112771026001A	10/05/2011 11:59	Choon Y Tian	2
06135	Lead	SW-846 6020	2	112771026001A	10/05/2011 11:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	2	112771026001C	10/05/2011 11:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	2	112771026001A	10/05/2011 11:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	2	112771026001B	10/05/2011 11:59	Choon Y Tian	2
06142	Silver	SW-846 6020	2	112771026001A	10/05/2011 11:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	112771026001A	10/05/2011 11:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	2	112771026001A	10/05/2011 11:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	2	112771026001A	10/05/2011 11:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112735711001	10/03/2011 08:57	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112735708001	10/02/2011 20:25	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112805708002	10/09/2011 13:26	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112731026001	10/02/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112771026001	10/04/2011 23:33	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112735711001	10/02/2011 23:55	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11276621202A	10/05/2011 01:48	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11276621202A	10/05/2011 01:48	Ashley M Adams	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-102-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-9.0-10.0

LLI Sample # SW 6419525
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:30

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1029 SDG#: DE254-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621201B	10/05/2011 22:05	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11279243201A	10/08/2011 11:07	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11276621202A	10/03/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621201B	10/04/2011 08:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11283039401B	10/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11279243201A	10/06/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403A	10/05/2011 20:16	Scott W Freisher	1

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Analysis Report

Sample Description: SL-109-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA7-SB-4.0-5.0

LLI Sample # SW 6419526
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 12:13

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1094 SDG#: DE254-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.2	U	17.2	34.4	1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	2-butoxy-Ethanol	111-76-2	1,700	U	1,700	1,700	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-109-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA7-SB-4.0-5.0

LLI Sample # SW 6419526
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 12:13

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1094 SDG#: DE254-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	2-phenoxy-Ethanol	122-99-6	1,700	U	1,700	1,700	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.2	U	6.2	19	1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0	24.22
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	630	U	630	1,600	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-109-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA7-SB-4.0-5.0

LLI Sample # SW 6419526
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 12:13

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1094 SDG#: DE254-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520	1
10501	Isopropanol	67-63-0	100	U	100	520	1
10501	Methanol	67-56-1	100	U	100	520	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10	1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10	1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.2	1
10199	EFH (C15-C20)	n.a.	0.42	U	0.42	1.2	1
10199	EFH (C21-C30)	n.a.	1.5		0.42	1.2	1
10199	EFH (C30 - C40)	n.a.	4.3		0.42	1.2	1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.2	1

Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. The following corrective action was taken:
The sample was re-analyzed outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second analysis so all original results are reported.
Similar results were obtained in both trials.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,600		6.08	20.1	1
07914	Boron	7440-42-8	6.00		0.365	5.07	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-109-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA7-SB-4.0-5.0

LLI Sample # SW 6419526
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 12:13

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1094 SDG#: DE254-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	3,910		2.54	20.3	1
01654	Iron	7439-89-6	18,800		2.65	20.3	1
01656	Lithium	7439-93-2	26.9		0.63	2.0	1
01657	Magnesium	7439-95-4	4,590		0.446	10.1	1
06958	Manganese	7439-96-5	268		0.0365	0.507	1
10145	Phosphorus	7723-14-0	316		0.355	10.1	1
01662	Potassium	7440-09-7	2,890		11.5	50.7	1
01667	Sodium	7440-23-5	124		6.04	101	1
07968	Strontium	7440-24-6	12.8		0.0254	0.507	1
06969	Tin	7440-31-5	2.86	J	0.325	10.1	1
06970	Titanium	7440-32-6	1,180		0.0720	1.01	1
10146	Zirconium	7440-67-7	1.18	J	0.467	5.07	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0824	J	0.0751	0.203	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.09		0.0812	0.406	2
06126	Barium	7440-39-3	109		0.108	0.406	2
06127	Beryllium	7440-41-7	0.611		0.0162	0.101	2
06128	Cadmium	7440-43-9	0.121		0.0446	0.101	2
06131	Chromium	7440-47-3	17.9		0.122	0.406	2
06132	Cobalt	7440-48-4	6.41		0.0203	0.101	2
06133	Copper	7440-50-8	8.31		0.0812	0.406	2
06135	Lead	7439-92-1	5.35		0.0103	0.203	2
06138	Molybdenum	7439-98-7	0.496		0.0507	0.101	2
06139	Nickel	7440-02-0	12.2		0.101	0.406	2
06141	Selenium	7782-49-2	0.121	J	0.0588	0.406	2
06142	Silver	7440-22-4	0.0190	J	0.0144	0.101	2
06145	Thallium	7440-28-0	0.315		0.0304	0.101	2
06148	Vanadium	7440-62-2	40.7		0.0223	0.101	2
06149	Zinc	7440-66-6	72.3		0.568	3.04	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	U	0.0073	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8		0.85	1.1	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.1	J	0.85	1.6	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-109-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA7-SB-4.0-5.0

LLI Sample # SW 6419526
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 12:13

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1094 SDG#: DE254-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.00	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	4.3	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-109-SA7-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11274SLE026	10/06/2011 19:23	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11277SLE026	10/07/2011 02:53	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11278SLH026	10/11/2011 11:35	Brian K Graham	1
11630	NDMA Soil Microwave	SW-846 3546	1	11274SLE026	10/03/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11278SLH026	10/06/2011 11:50	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11277SLE026	10/05/2011 08:10	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11265A34B	09/29/2011 15:42	Carrie E Miller	24.22
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201127025668	09/27/2011 21:33	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201127025668	09/27/2011 21:34	Lois E Hiltz	n.a.
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670064A	09/29/2011 22:01	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112770011A	10/05/2011 17:41	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112770011A	10/04/2011 19:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670064A	09/28/2011 12:30	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112730032A	10/03/2011 20:34	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112720043A	09/30/2011 04:43	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112780040A	10/08/2011 02:30	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112780029A	10/08/2011 13:45	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112780029A	10/06/2011 02:30	Sherry L Morrow	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-109-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA7-SB-4.0-5.0

LLI Sample # SW 6419526
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 12:13

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1094 SDG#: DE254-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10303	Terphenyls soil prep	SW-846 3550B	1	112780040A	10/06/2011 07:55	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112730032A	10/03/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112720043A	09/29/2011 18:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112805708002	10/10/2011 03:41	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112735708001	10/05/2011 02:42	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112735708001	10/05/2011 02:42	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112735708001	10/05/2011 02:42	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112735708001	10/05/2011 02:42	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112735708001	10/05/2011 02:42	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112735708001	10/05/2011 02:42	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112735708001	10/05/2011 02:42	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112735708001	10/05/2011 02:42	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112735708001	10/05/2011 02:42	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112735708001	10/05/2011 02:42	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112735708001	10/05/2011 02:42	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112735708001	10/05/2011 02:42	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112735708001	10/05/2011 02:42	John W Yanzuk II	1
06124	Antimony	SW-846 6020	2	112771026001A	10/05/2011 12:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	2	112771026001A	10/05/2011 12:02	Choon Y Tian	2
06126	Barium	SW-846 6020	2	112771026001D	10/05/2011 12:02	Choon Y Tian	2
06127	Beryllium	SW-846 6020	2	112771026001A	10/05/2011 12:02	Choon Y Tian	2
06128	Cadmium	SW-846 6020	2	112771026001A	10/05/2011 12:02	Choon Y Tian	2
06131	Chromium	SW-846 6020	2	112771026001A	10/05/2011 12:02	Choon Y Tian	2
06132	Cobalt	SW-846 6020	2	112771026001A	10/05/2011 12:02	Choon Y Tian	2
06133	Copper	SW-846 6020	2	112771026001A	10/05/2011 12:02	Choon Y Tian	2
06135	Lead	SW-846 6020	2	112771026001A	10/05/2011 12:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	2	112771026001C	10/05/2011 12:02	Choon Y Tian	2
06139	Nickel	SW-846 6020	2	112771026001A	10/05/2011 12:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	2	112771026001B	10/05/2011 12:02	Choon Y Tian	2
06142	Silver	SW-846 6020	2	112771026001A	10/05/2011 12:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	112771026001A	10/05/2011 12:02	Choon Y Tian	2
06148	Vanadium	SW-846 6020	2	112771026001A	10/05/2011 12:02	Choon Y Tian	2
06149	Zinc	SW-846 6020	2	112771026001A	10/05/2011 12:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112735711001	10/03/2011 08:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112735708001	10/02/2011 20:25	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112805708002	10/09/2011 13:26	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112731026001	10/02/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112771026001	10/04/2011 23:33	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112735711001	10/02/2011 23:55	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11276621202A	10/05/2011 02:01	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11276621202A	10/05/2011 02:01	Ashley M Adams	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-109-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA7-SB-4.0-5.0

LLI Sample # SW 6419526
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 12:13

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1094 SDG#: DE254-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621201B	10/05/2011 22:28	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11279243201A	10/08/2011 11:14	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11276621202A	10/03/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621201B	10/04/2011 08:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11283039401B	10/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11279243201A	10/06/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403A	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-109-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA7-SB-9.0-10.0

LLI Sample # SW 6419527
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 12:20

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1099 SDG#: DE254-04*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.8	U	17.8	35.7	1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	2-butoxy-Ethanol	111-76-2	1,800	U	1,800	1,800	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-109-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA7-SB-9.0-10.0

LLI Sample # SW 6419527
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 12:20

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1099 SDG#: DE254-04*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	2-phenoxy-Ethanol	122-99-6	1,800	U	1,800	1,800	1
04688	Tetralin	119-64-2	180	U	180	180	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.64	J	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.77	J	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.79	J	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	1.4	J	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.80	J	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	J	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19	1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19	1
10138	Chrysene	218-01-9	0.94	J	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	J	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	19	1
10138	Fluoranthene	206-44-0	0.98	J	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	J	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19	1
10138	Phenanthrene	85-01-8	0.97	J	0.72	1.8	1
10138	Pyrene	129-00-0	1.0	J	0.72	1.8	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1	24.9
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	650	U	650	1,600	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-109-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA7-SB-9.0-10.0

LLI Sample # SW 6419527
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 12:20

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1099 SDG#: DE254-04*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540	1
10501	Isopropanol	67-63-0	110	U	110	540	1
10501	Methanol	67-56-1	110	U	110	540	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11	1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11	1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3	1
10199	EFH (C15-C20)	n.a.	0.50	J	0.43	1.3	1
10199	EFH (C21-C30)	n.a.	3.7		0.43	1.3	1
10199	EFH (C30 - C40)	n.a.	6.6		0.43	1.3	1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3	1

Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. The following corrective action was taken:
The sample was re-analyzed outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second analysis so all original results are reported.
Similar results were obtained in both trials.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,600		6.43	21.3	1
07914	Boron	7440-42-8	7.17		0.387	5.37	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-109-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA7-SB-9.0-10.0

LLI Sample # SW 6419527
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 12:20

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1099 SDG#: DE254-04*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	2,360		2.68	21.5	1
01654	Iron	7439-89-6	17,600		2.80	21.5	1
01656	Lithium	7439-93-2	21.4		0.67	2.1	1
01657	Magnesium	7439-95-4	3,840		0.472	10.7	1
06958	Manganese	7439-96-5	226		0.0387	0.537	1
10145	Phosphorus	7723-14-0	218		0.376	10.7	1
01662	Potassium	7440-09-7	2,710		12.1	53.7	1
01667	Sodium	7440-23-5	112		6.39	107	1
07968	Strontium	7440-24-6	20.3		0.0268	0.537	1
06969	Tin	7440-31-5	2.73	J	0.344	10.7	1
06970	Titanium	7440-32-6	1,200		0.0762	1.07	1
10146	Zirconium	7440-67-7	2.32	J	0.494	5.37	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.128	J	0.0795	0.215	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.83		0.0859	0.430	2
06126	Barium	7440-39-3	85.5		0.114	0.430	2
06127	Beryllium	7440-41-7	0.637		0.0172	0.107	2
06128	Cadmium	7440-43-9	0.107	J	0.0472	0.107	2
06131	Chromium	7440-47-3	18.2		0.129	0.430	2
06132	Cobalt	7440-48-4	6.36		0.0215	0.107	2
06133	Copper	7440-50-8	7.86		0.0859	0.430	2
06135	Lead	7439-92-1	5.75		0.0110	0.215	2
06138	Molybdenum	7439-98-7	0.488		0.0537	0.107	2
06139	Nickel	7440-02-0	11.7		0.107	0.430	2
06141	Selenium	7782-49-2	0.0885	J	0.0623	0.430	2
06142	Silver	7440-22-4	0.0423	J	0.0152	0.107	2
06145	Thallium	7440-28-0	0.271		0.0322	0.107	2
06148	Vanadium	7440-62-2	39.6		0.0236	0.107	2
06149	Zinc	7440-66-6	47.9		0.601	3.22	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0106	J	0.0074	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.3		0.88	1.1	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	13.6		0.88	1.6	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-109-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA7-SB-9.0-10.0

LLI Sample # SW 6419527
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 12:20

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1099 SDG#: DE254-04*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.08	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	7.8	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-109-SA7-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11274SLE026	10/06/2011 20:01	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11277SLE026	10/07/2011 03:18	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11278SLH026	10/11/2011 12:08	Brian K Graham	1
11630	NDMA Soil Microwave	SW-846 3546	1	11274SLE026	10/03/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11278SLH026	10/06/2011 11:50	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11277SLE026	10/05/2011 08:10	Katheryne V Sponheimer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11265A34B	09/29/2011 16:19	Carrie E Miller	24.9
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201127025668	09/27/2011 21:35	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201127025668	09/27/2011 21:36	Lois E Hiltz	n.a.
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670064A	09/29/2011 22:10	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112770011A	10/05/2011 18:00	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112770011A	10/04/2011 19:00	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670064A	09/28/2011 12:30	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112730032A	10/03/2011 20:51	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112720043A	09/30/2011 04:56	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112780040A	10/08/2011 02:57	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112780029A	10/08/2011 14:09	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112780029A	10/06/2011 02:30	Sherry L Morrow	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-109-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-109-SA7-SB-9.0-10.0

LLI Sample # SW 6419527
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 12:20

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1099 SDG#: DE254-04*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10303	Terphenyls soil prep	SW-846 3550B	1	112780040A	10/06/2011 07:55	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112730032A	10/03/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112720043A	09/29/2011 18:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112805708002	10/10/2011 03:53	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112735708001	10/05/2011 02:46	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112735708001	10/05/2011 02:46	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112735708001	10/05/2011 02:46	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112735708001	10/05/2011 02:46	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112735708001	10/05/2011 02:46	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112735708001	10/05/2011 02:46	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112735708001	10/05/2011 02:46	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112735708001	10/05/2011 02:46	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112735708001	10/05/2011 02:46	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112735708001	10/05/2011 02:46	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112735708001	10/05/2011 02:46	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112735708001	10/05/2011 02:46	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112735708001	10/05/2011 02:46	John W Yanzuk II	1
06124	Antimony	SW-846 6020	2	112771026001A	10/05/2011 12:05	Choon Y Tian	2
06125	Arsenic	SW-846 6020	2	112771026001A	10/05/2011 12:05	Choon Y Tian	2
06126	Barium	SW-846 6020	2	112771026001D	10/05/2011 12:05	Choon Y Tian	2
06127	Beryllium	SW-846 6020	2	112771026001A	10/05/2011 12:05	Choon Y Tian	2
06128	Cadmium	SW-846 6020	2	112771026001A	10/05/2011 12:05	Choon Y Tian	2
06131	Chromium	SW-846 6020	2	112771026001A	10/05/2011 12:05	Choon Y Tian	2
06132	Cobalt	SW-846 6020	2	112771026001A	10/05/2011 12:05	Choon Y Tian	2
06133	Copper	SW-846 6020	2	112771026001A	10/05/2011 12:05	Choon Y Tian	2
06135	Lead	SW-846 6020	2	112771026001A	10/05/2011 12:05	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	2	112771026001C	10/05/2011 12:05	Choon Y Tian	2
06139	Nickel	SW-846 6020	2	112771026001A	10/05/2011 12:05	Choon Y Tian	2
06141	Selenium	SW-846 6020	2	112771026001B	10/05/2011 12:05	Choon Y Tian	2
06142	Silver	SW-846 6020	2	112771026001A	10/05/2011 12:05	Choon Y Tian	2
06145	Thallium	SW-846 6020	2	112771026001A	10/05/2011 12:05	Choon Y Tian	2
06148	Vanadium	SW-846 6020	2	112771026001A	10/05/2011 12:05	Choon Y Tian	2
06149	Zinc	SW-846 6020	2	112771026001A	10/05/2011 12:05	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112735711001	10/03/2011 09:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112735708001	10/02/2011 20:25	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112805708002	10/09/2011 13:26	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112731026001	10/02/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112771026001	10/04/2011 23:33	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112735711001	10/02/2011 23:55	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11276621202A	10/05/2011 02:13	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11276621202A	10/05/2011 02:13	Ashley M Adams	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-109-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA7-SB-9.0-10.0

LLI Sample # SW 6419527
LLI Group # 1268381
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 12:20

Submitted: 09/27/2011 09:00
Reported: 10/24/2011 10:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1099 SDG#: DE254-04*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621201B	10/05/2011 22:51	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11279243201A	10/08/2011 11:47	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11276621202A	10/03/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621201B	10/04/2011 08:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11283039401B	10/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11279243201A	10/06/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403A	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268381
Reported: 10/24/11 at 10:30 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11274SLE026	Sample number(s): 6419519-6419521,6419525-6419527									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	96		70-130		
Batch number: 11277SLE026	Sample number(s): 6419519-6419521,6419525-6419527									
Acenaphthene	17	U	17.	170	ug/kg	104		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	111		75-122		
Aniline	170 U		170.	500	ug/kg	68		20-115		
Anthracene	17	U	17.	170	ug/kg	109		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	33		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	107		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	108		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	112		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	108		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	104		67-125		
Benzoic acid	170 U		170.	500	ug/kg	97		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	99		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	101		73-114		
2-butoxy-Ethanol	1,700 U		1,700.	1,700	ug/kg					
Butylbenzylphthalate	17	U	17.	170	ug/kg	113		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	111		79-112		
Carbazole	17	U	17.	170	ug/kg	110		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	108		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	35		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	101		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	98		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	93		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	80		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	105		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	95		74-115		
Chrysene	17	U	17.	170	ug/kg	105		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	111		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	101		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	96		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	96		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	94		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	57		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	104		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	105		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	105		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	106		83-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268381
Reported: 10/24/11 at 10:30 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dimethylphthalate	17	U	17.	170	ug/kg	103		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	90		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	77		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	108		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	111		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	107		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	111		75-117		
Fluoranthene	17	U	17.	170	ug/kg	111		78-116		
Fluorene	17	U	17.	170	ug/kg	104		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	95		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	94		65-117		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	97		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	95		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	111		64-119		
Isophorone	17	U	17.	170	ug/kg	101		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	98		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	104		69-109		
2-Methylphenol	33	U	33.	170	ug/kg	105		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	98		66-117		
Naphthalene	17	U	17.	170	ug/kg	101		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	100		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	91		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	74		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	104		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	107		76-111		
4-Nitrophenol	170 U		170.	500	ug/kg	98		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	93		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	87		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	107		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	107		62-137		
Pentachlorophenol	170 U		170.	500	ug/kg	93		51-117		
Phenanthrene	17	U	17.	170	ug/kg	105		77-113		
Phenol	17	U	17.	170	ug/kg	98		58-112		
2-phenoxy-Ethanol	1,700 U		1,700.	1,700	ug/kg					
Pyrene	17	U	17.	170	ug/kg	101		75-115		
Tetralin	170 U		170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	98		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	100		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	105		78-111		
Batch number: 11278SLH026	Sample number(s): 6419519-6419521,6419525-6419527									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	95		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	88		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	94		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	95		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	94		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	101		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	96		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	103		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	104		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	106		75-137		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268381
Reported: 10/24/11 at 10:30 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Chrysene	0.33	U	0.33	1.7	ug/kg	96		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	99		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	99		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	101		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	119		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	101		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	100		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	97		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	88		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	88		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	88		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	82		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	114		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	92		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	94		72-119		
Batch number: 11265A34B	Sample number(s): 6419519-6419521,6419525-6419527									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	69	76	67-119	10	30
Batch number: 112670064A	Sample number(s): 6419519-6419521,6419523-6419527									
20a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	98		80-126		
Batch number: 112770011A	Sample number(s): 6419519-6419521,6419523-6419527									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	64	65	36-106	1	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	85		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	94		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112720043A	Sample number(s): 6419519-6419521,6419525-6419527									
Diethylene glycol	5.0	U	5.0	10	mg/kg	94		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	96		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	85		67-131		
Batch number: 112730032A	Sample number(s): 6419519-6419521,6419523-6419527									
Ethanol	100 U		100.	500	ug/kg	99		71-129		
Isopropanol	100 U		100.	500	ug/kg	95		75-125		
Methanol	100 U		100.	500	ug/kg	98		68-129		
Batch number: 112780029A	Sample number(s): 6419519-6419521,6419523-6419527									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	92		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	94		75-128		
EFH (C21-C30)	1.0	J	0.40	1.2	mg/kg	88		64-134		
EFH (C30 - C40)	4.2		0.40	1.2	mg/kg	66		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	74		49-107		
Batch number: 112780040A	Sample number(s): 6419519-6419521,6419523-6419527									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268381
Reported: 10/24/11 at 10:30 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	88		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	90		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	89		69-109		
Batch number: 112735708001	Sample number(s): 6419519-6419522,6419525-6419527									
Boron	0.738	J	0.360	5.00	mg/kg	111		66-134		
Calcium	24.6		2.50	20.0	mg/kg	110		79-121		
Iron	2.61	U	2.61	20.0	mg/kg	142		51-149		
Lithium	0.62	U	0.62	2.0	mg/kg	103		80-120		
Magnesium	0.440	U	0.440	10.0	mg/kg	133		64-136		
Manganese	0.215	J	0.0360	0.500	mg/kg	104		78-122		
Phosphorus	1.22	J	0.350	10.0	mg/kg	105		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	123		69-131		
Sodium	5.95	U	5.95	100	mg/kg	119		71-129		
Strontium	0.145	J	0.0250	0.500	mg/kg	107		81-119		
Tin	1.51	J	0.320	10.0	mg/kg	97		74-126		
Titanium	0.0710	U	0.0710	1.00	mg/kg	103		80-120		
Zirconium	0.460	U	0.460	5.00	mg/kg	106		80-120		
Batch number: 112735711001	Sample number(s): 6419519-6419522,6419525-6419527									
Mercury	0.0069	U	0.0069	0.0975	mg/kg	106		72-128		
Batch number: 112771026001A	Sample number(s): 6419519-6419522,6419525-6419527									
Antimony	0.0740	U	0.0740	0.200	mg/kg	105		10-224		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	108		78-122		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	109		80-120		
Cadmium	0.0440	U	0.0440	0.100	mg/kg	106		81-119		
Chromium	0.120	U	0.120	0.400	mg/kg	120		77-123		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	106		80-119		
Copper	0.0800	U	0.0800	0.400	mg/kg	111		78-122		
Lead	0.0409	J	0.0102	0.200	mg/kg	105		77-123		
Nickel	0.100	U	0.100	0.400	mg/kg	113		80-120		
Silver	0.0142	U	0.0142	0.100	mg/kg	107		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	105		75-124		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	123		76-124		
Zinc	0.560	U	0.560	3.00	mg/kg	107		79-121		
Batch number: 112771026001B	Sample number(s): 6419519-6419522,6419525-6419527									
Selenium	0.0580	U	0.0580	0.400	mg/kg	108		77-123		
Batch number: 112771026001C	Sample number(s): 6419519-6419522,6419525-6419527									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	111		76-123		
Batch number: 112771026001D	Sample number(s): 6419519-6419522,6419525-6419527									
Barium	0.106	U	0.106	0.400	mg/kg	110		80-120		
Batch number: 112805708002	Sample number(s): 6419519-6419522,6419525-6419527									
Aluminum	5.82	U	5.82	19.2	mg/kg	98		51-110		
Batch number: 11276621202A	Sample number(s): 6419519-6419520,6419522,6419525-6419527									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	94		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	97		90-110		
Batch number: 11277621201B	Sample number(s): 6419519-6419520,6419522,6419525-6419527									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	114		85-115		
Batch number: 11279243201A	Sample number(s): 6419519-6419520,6419522,6419525-6419527									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	87		80-120		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268381
Reported: 10/24/11 at 10:30 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11283039401B	Sample number(s): 6419519,6419522,6419525-6419527								
17a pH by 9045C					100		95-105		
Batch number: 11278162403A	Sample number(s): 6419525-6419527								
Moisture Content by 160.3					100		80-120		
Batch number: 11279162401A	Sample number(s): 6419519-6419523								
28a Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11274SLE026	Sample number(s): 6419519-6419521,6419525-6419527 UNSPK: 6419519								
N-Nitrosodimethylamine	87	90	70-130	3	30				
Batch number: 11277SLE026	Sample number(s): 6419519-6419521,6419525-6419527 UNSPK: 6419519								
Acenaphthene	103	101	75-115	3	30				
Acenaphthylene	109	108	81-110	0	30				
Aniline	68	70	18-116	3	30				
Anthracene	108	106	75-115	2	30				
Benzidine	32*	41	35-141	24	30				
Benzo(a)anthracene	97	95	65-122	3	30				
Benzo(a)pyrene	107	104	57-126	2	30				
Benzo(b)fluoranthene	115	113	59-125	1	30				
Benzo(g,h,i)perylene	113	111	59-127	2	30				
Benzo(k)fluoranthene	99	99	56-132	0	30				
Benzoic acid	25	35	10-173	35*	30				
Benzyl alcohol	101	97	67-115	4	30				
4-Bromophenyl-phenylether	104	101	67-129	2	30				
Butylbenzylphthalate	111	108	73-134	3	30				
Di-n-butylphthalate	107	105	67-123	2	30				
Carbazole	104	102	64-120	2	30				
4-Chloro-3-methylphenol	106	104	62-122	2	30				
4-Chloroaniline	56	71	13-107	24	30				
bis(2-Chloroethoxy)methane	96	94	75-104	1	30				
bis(2-Chloroethyl)ether	100	95	60-116	5	30				
bis(2-Chloroisopropyl)ether	93	87	55-142	6	30				
2-Chloronaphthalene	82	82	50-141	1	30				
2-Chlorophenol	107	101	73-121	6	30				
4-Chlorophenyl-phenylether	93	92	80-109	1	30				
Chrysene	92	90	62-128	3	30				
Dibenz(a,h)anthracene	112	113	65-125	0	30				
Dibenzofuran	99	96	71-112	3	30				
1,2-Dichlorobenzene	96	91	66-108	6	30				
1,3-Dichlorobenzene	95	93	63-109	3	30				
1,4-Dichlorobenzene	95	90	58-108	5	30				
3,3'-Dichlorobenzidine	67	74	28-109	10	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268381
Reported: 10/24/11 at 10:30 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4-Dichlorophenol	100	101	66-123	1	30				
Diethylphthalate	102	100	66-118	2	30				
2,4-Dimethylphenol	103	102	68-118	1	30				
3,5-Dimethylphenol	102	103	71-127	1	30				
Dimethylphthalate	100	98	64-118	2	30				
4,6-Dinitro-2-methylphenol	28	21	11-126	26	30				
2,4-Dinitrophenol	0*	0*	20-143	0	30				
2,4-Dinitrotoluene	99	98	56-129	0	30				
2,6-Dinitrotoluene	107	106	69-123	1	30				
1,2-Diphenylhydrazine	112	107	71-129	4	30				
bis(2-Ethylhexyl)phthalate	113	109	63-122	3	30				
Fluoranthene	104	100	73-112	4	30				
Fluorene	102	101	63-121	0	30				
Hexachlorobenzene	97	95	77-114	2	30				
Hexachlorobutadiene	90	90	62-120	0	30				
Hexachlorocyclopentadiene	50	52	10-153	5	30				
Hexachloroethane	92	91	57-109	1	30				
Indeno(1,2,3-cd)pyrene	114	112	61-126	2	30				
Isophorone	97	96	73-102	0	30				
1-Methylnaphthalene	96	95	64-122	1	30				
2-Methylnaphthalene	101	101	76-114	0	30				
2-Methylphenol	107	100	75-111	7	30				
4-Methylphenol	101	97	59-123	4	30				
Naphthalene	98	96	72-116	2	30				
2-Nitroaniline	101	98	67-125	3	30				
3-Nitroaniline	97	95	59-122	1	30				
4-Nitroaniline	67	69	41-109	3	30				
Nitrobenzene	101	98	57-125	2	30				
2-Nitrophenol	109	109	56-127	1	30				
4-Nitrophenol	86	85	37-129	1	30				
N-Nitroso-di-n-propylamine	91	86	60-116	6	30				
N-Nitrosodimethylamine	86	88	47-116	2	30				
N-Nitrosodiphenylamine	109	106	71-122	3	30				
Di-n-octylphthalate	117	114	56-126	3	30				
Pentachlorophenol	65	64	28-127	2	30				
Phenanthrene	103	101	65-125	2	30				
Phenol	97	93	58-126	5	30				
Pyrene	102	100	74-126	3	30				
1,2,4-Trichlorobenzene	95	91	72-115	5	30				
2,4,5-Trichlorophenol	102	99	58-129	3	30				
2,4,6-Trichlorophenol	107	104	56-134	3	30				
Batch number: 11278SLH026	Sample number(s): 6419519-6419521,6419525-6419527 UNSPK: 6419519								
Acenaphthene	93	94	63-105	1	30				
Acenaphthylene	91	89	67-114	2	30				
Anthracene	92	93	73-115	1	30				
Benzo(a)anthracene	90	91	59-128	1	30				
Benzo(a)pyrene	91	92	58-142	1	30				
Benzo(b)fluoranthene	96	96	54-163	0	30				
Benzo(g,h,i)perylene	87	89	33-141	2	30				
Benzo(k)fluoranthene	94	97	57-153	2	30				
Butylbenzylphthalate	116	112	57-173	4	30				
Di-n-butylphthalate	112	111	65-148	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268381
Reported: 10/24/11 at 10:30 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Chrysene	90	92	67-123	2	30				
Dibenz(a,h)anthracene	93	94	22-133	1	30				
Diethylphthalate	100	103	70-136	2	30				
Dimethylphthalate	103	104	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	114	119	39-167	4	30				
Fluoranthene	96	97	51-149	1	30				
Fluorene	96	97	66-122	1	30				
Indeno(1,2,3-cd)pyrene	90	92	21-143	2	30				
1-Methylnaphthalene	91	86	72-123	6	30				
2-Methylnaphthalene	91	86	64-103	6	30				
Naphthalene	94	86	61-102	8	30				
N-Nitrosodimethylamine	94	87	48-113	7	30				
Di-n-octylphthalate	111	111	40-192	0	30				
Phenanthrene	87	89	62-122	2	30				
Pyrene	89	91	51-131	2	30				
Batch number: 11265A34B	Sample number(s): 6419519-6419521,6419525-6419527 UNSPK: 6419519								
9a TPH by EPA 8015B Gas C5-C12	74	87	39-118	17	30				
Batch number: 112670064A	Sample number(s): 6419519-6419521,6419523-6419527 UNSPK: 6419519								
20a Formaldehyde 8315A	105	96	80-120	9	50				
Batch number: 112770011A	Sample number(s): 6419519-6419521,6419523-6419527 UNSPK: 6419519								
PCB-1016	83	81	29-146	1	50				
PCB-1260	95	78	39-149	19	50				
Batch number: 112720043A	Sample number(s): 6419519-6419521,6419525-6419527 UNSPK: 6419519								
Diethylene glycol	22*	28*	59-109	27*	20				
Ethylene glycol	58*	60*	63-107	3	20				
Propylene glycol	63	64	63-107	2	20				
Batch number: 112730032A	Sample number(s): 6419519-6419521,6419523-6419527 UNSPK: 6419519								
Ethanol	88	67	48-130	27*	20				
Isopropanol	84	64	12-149	28*	20				
Methanol	87	68	43-138	24*	20				
Batch number: 112780029A	Sample number(s): 6419519-6419521,6419523-6419527 UNSPK: 6419519								
EFH (C12-C14)	85	89	49-123	5	20				
EFH (C15-C20)	104	118	49-123	13	20				
EFH (C21-C30)	106	211*	49-123	51*	20				
EFH (C30 - C40)	125*	219*	49-123	34*	20				
EFH (C8-C11)	70	72	49-123	4	20				
Batch number: 112780040A	Sample number(s): 6419519-6419521,6419523-6419527 UNSPK: 6419519								
m-Terphenyl	75	82	75-125	8	20				
o-Terphenyl	77	84	75-125	8	20				
p-Terphenyl	78	84	75-125	6	20				
Batch number: 112735708001	Sample number(s): 6419519-6419522,6419525-6419527 UNSPK: 6419519 BKG: 6419519								
Boron	99	99	84-115	1	20	6.19	5.70	8 (1)	20
Calcium	47 (2)	133 (2)	75-125	9	20	3,390	3,580	5	20
Iron	-169 (2)	-173 (2)	75-125	0	20	18,200	18,000	1	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268381
Reported: 10/24/11 at 10:30 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Lithium	100	100	82-114	0	20	23.1	23.4	1	20
Magnesium	85 (2)	161 (2)	75-125	3	20	4,070	4,060	0	20
Manganese	82 (2)	88 (2)	75-125	1	20	219	216	2	20
Phosphorus	89	117	75-125	8	20	261	289	10	20
Potassium	97	106	75-125	3	20	2,650	2,460	8	20
Sodium	100	100	75-125	1	20	124	118	5 (1)	20
Strontium	99	99	75-115	1	20	14.7	14.8	1	20
Tin	90	89	80-110	1	20	2.69 J	2.73 J	1 (1)	20
Titanium	202 (2)	227 (2)	75-125	2	20	1,110	1,110	0	20
Zirconium	100	100	81-110	1	20	1.29 J	2.32 J	57* (1)	20
Batch number: 112735711001	Sample number(s): 6419519-6419522,6419525-6419527 UNSPK: 6419519 BKG: 6419519								
Mercury	103	104	65-135	0	20	0.0115 J	0.0067 U	200* (1)	20
Batch number: 112771026001A	Sample number(s): 6419519-6419522,6419525-6419527 UNSPK: 6419519 BKG: 6419519								
Antimony	66*	61*	75-125	9	20	0.136 J	0.119 J	13 (1)	20
Arsenic	144*	130*	75-125	4	20	5.18	5.38	4	20
Beryllium	133*	125	75-125	5	20	0.730	0.700	4	20
Cadmium	145*	133*	75-125	10	20	0.0802 J	0.0845 J	5 (1)	20
Chromium	120	102	75-125	7	20	18.9	17.6	7	20
Cobalt	140*	128*	75-125	10	20	5.93	5.82	2	20
Copper	145*	129*	75-125	9	20	7.94	8.04	1	20
Lead	134*	118	75-125	5	20	5.92	5.83	2	20
Nickel	139*	125	75-125	7	20	11.6	11.3	2	20
Silver	142*	130*	75-125	10	20	0.0201 J	0.0238 J	17 (1)	20
Thallium	132*	114	75-125	10	20	0.339	0.322	5 (1)	20
Vanadium	130 (2)	104 (2)	75-125	5	20	40.3	39.3	3	20
Zinc	118 (2)	69 (2)	75-125	6	20	67.9	67.3	1	20
Batch number: 112771026001B	Sample number(s): 6419519-6419522,6419525-6419527 UNSPK: 6419519 BKG: 6419519								
Selenium	128*	120	75-125	8	20	0.127 J	0.134 J	5 (1)	20
Batch number: 112771026001C	Sample number(s): 6419519-6419522,6419525-6419527 UNSPK: 6419519 BKG: 6419519								
Molybdenum	142*	133*	75-125	8	20	0.564	0.573	2	20
Batch number: 112771026001D	Sample number(s): 6419519-6419522,6419525-6419527 UNSPK: 6419519 BKG: 6419519								
Barium	146 (2)	128 (2)	75-125	2	20	95.4	99.7	4	20
Batch number: 112805708002	Sample number(s): 6419519-6419522,6419525-6419527 UNSPK: 6419519 BKG: 6419519								
Aluminum	-1214 (2)	-39 (2)	75-125	14	20	17,500	16,100	8	20
Batch number: 11276621202A	Sample number(s): 6419519-6419520,6419522,6419525-6419527 UNSPK: 6419519 BKG: 6419519								
11a Anions by 300.0 - Fluoride	42*		80-120			2.3	2.4	6 (1)	20
11a Anions by 300.0 - Nitrate	86		80-120			2.3	2.0	11 (1)	20
Batch number: 11277621201B	Sample number(s): 6419519-6419520,6419522,6419525-6419527 UNSPK: 6419519 BKG: 6419519								
7a Perchlorate EPA 314.0	112		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11279243201A	Sample number(s): 6419519-6419520,6419522,6419525-6419527 UNSPK: 6419519 BKG: 6419519								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268381
Reported: 10/24/11 at 10:30 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
3a Cr VI by EPA 7199	85		75-125			0.20	U	0.20	U	0 (1)	20
Batch number: 11283039401B	Sample number(s): 6419519,6419522,6419525-6419527					BKG: 6419519					
17a pH by 9045C						8.19		8.19		0	3
Batch number: 11278162403A	Sample number(s): 6419525-6419527					BKG: P419519					
Moisture Content by 160.3						5.9		5.0		16	20
Batch number: 11279162401A	Sample number(s): 6419519-6419523					BKG: 6419519					
28a Moisture Content by 160.3						4.6		4.9		5	20
Moisture Content by 160.3						4.6		4.9		5	20
Moisture Content by 160.3						4.6		4.9		5	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 21a NDMA by 1625C
Batch number: 11274SLE026

	N-Nitrosodimethylamine-d6
6419519	119
6419520	113
6419521	113
6419525	134
6419526	119
6419527	123
Blank	120
LCS	121
MS	113
MSD	113
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11277SLE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6419519	101	105	80	94	92	84
6419520	101	106	87	95	96	86
6419521	96	100	85	94	94	86
6419525	102	105	74	93	92	85
6419526	83	90	72	89	97	82
6419527	84	93	70	94	98	84
Blank	95	102	86	93	92	85
LCS	99	105	97	97	97	87
MS	101	106	87	95	96	86
MSD	96	100	85	94	94	86

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268381
Reported: 10/24/11 at 10:30 AM

Surrogate Quality Control

Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11278SLH026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6419519	100	94	111
6419520	108	89	93
6419521	103	92	99
6419525	98	89	96
6419526	98	88	95
6419527	99	91	99
Blank	90	82	89
LCS	102	87	90
MS	108	89	93
MSD	103	92	99
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11265A34B

	Trifluorotoluene-F
6419519	88
6419520	93
6419521	90
6419525	96
6419526	91
6419527	90
Blank	106
LCS	87
LCSD	96
MS	93
MSD	90
Limits:	61-122

Analysis Name: 20a Formaldehyde 8315A
Batch number: 112670064A

	Butyraldehyde
6419519	89
6419520	99
6419521	98
6419523	98
6419524	107
6419525	82
6419526	78
6419527	92
Blank	105
LCS	101
MS	99
MSD	98
Limits:	64-126

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268381
Reported: 10/24/11 at 10:30 AM

Surrogate Quality Control

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112770011A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6419519	82	94
6419520	88	96
6419521	98	96
6419523	92	94
6419524	100	110
6419525	92	97
6419526	86	96
6419527	93	94
Blank	96	96
LCS	95	97
LCSD	72	105
MS	88	96
MSD	98	96
Limits:	53-139	45-120

Analysis Name: 19a Glycols by 8015B
Batch number: 112720043A

	Tetramethylene glycol
6419519	73
6419520	76
6419521	74
6419525	70
6419526	75
6419527	72
Blank	85
LCS	87
MS	76
MSD	74
Limits:	29-137

Analysis Name: 18a Alcohols by 8015B
Batch number: 112730032A

	Acetone
6419519	88
6419520	87
6419521	64
6419523	89
6419524	99
6419525	88
6419526	73
6419527	92
Blank	98
LCS	99
MS	87
MSD	64
Limits:	42-138

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268381
Reported: 10/24/11 at 10:30 AM

Surrogate Quality Control

Batch number: 112780029A

	Chlorobenzene	Orthoterphenyl
6419519	56	59
6419520	54	59
6419521	55	61
6419523	54	60
6419524	53	59
6419525	53	59
6419526	53	58
6419527	55	60
Blank	55	59
LCS	56	
MS	54	59
MSD	55	61
Limits:	37-125	47-145

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112780040A

	n-Triacontane-d62
6419519	60
6419520	63
6419521	60
6419523	60
6419524	62
6419525	64
6419526	61
6419527	57
Blank	63
LCS	63
MS	63
MSD	60
Limits:	19-152

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1268381 6419519-27

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subares 6 (SA6) & Subares 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/7000B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	*Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dioxosol EPA 8270	Other Instructions and Notes
SL-102-SA7-SB-4.5MS	9/26/11	0905	SOIL	NONE	6-Encores														X											2 Extra Encores collected
SL-102-SA7-SB-4.0-5.0MS	9/26/11	0910	SOIL	NONE	9-16 oz Jars	X	X	X	X	X	X	X	X							X	X	X	X			X	X	X	X	MS/MSD Sample
SL-102-SA7-SB-9.5	9/26/11	0933	SOIL	NONE	2-Encores														X											MS/MSD Sample
SL-102-SA7-SB-9.0-10.0	9/26/11	0930	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X							X	X	X	X			X	X	X	X	
SL-109-SA7-SB-4.5	9/26/11	1210	SOIL	NONE	2-Encores														X											
SL-109-SA7-SB-4.0-5.0	9/26/11	1213	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X							X	X	X	X			X	X	X	X	
SL-109-SA7-SB-9.5	9/26/11	1218	SOIL	NONE	2-Encores														X											
SL-109-SA7-SB-9.0-10.0	9/26/11	1220	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X							X	X	X	X			X	X	X	X	
SL-125-SA7-SB-4.0-5.0MS	9/26/11	1452	SOIL	NONE	6-16 oz Jars	X	X	X	X	X	X	X	X																	MS/MSD Sample
SL-170-SA7-SB-4.5	9/26/11	1110	SOIL	NONE	2-Encores														X											
SL-170-SA7-SB-4.0-5.0	9/26/11	1115	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X							X	X	X	X			X	X	X	X	
SL-170-SA7-SB-9.5	9/26/11	1123	SOIL	NONE	2-Encores														X											
SL-170-SA7-SB-9.0-10.0	9/26/11	1130	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X							X	X	X	X			X	X	X	X	
DUP007-SA7-QC-092611	9/26/11	0923	SOIL	NONE	6-Encores														X											
DUP007-SA7-QC-092611	9/26/11	0923	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X							X	X	X	X			X	X	X	X	
DUP008-SA7-QC-092611	9/26/11	1500	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X																	
DUP008-SA7-QC-092611	9/26/11	1430	WATER	NONE	2-40 ml vials														X											

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	09/19/2011 / 1600	9/20/11 0900	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill Nos: 8767 9858 3428; 8767 9858 3439 8767 9858 3440	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 25, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/27/2011
Group Number: 1268382
SDG: DE255
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-125-SA7-SB-4.0-5.0 Soil	6419528
SL-125-SA7-SB-4.0-5.0 MS Soil	6419529
SL-125-SA7-SB-4.0-5.0 MSD Soil	6419530
SL-125-SA7-SB-4.0-5.0 DUP Soil	6419531
SL-125-SA7-SB-4.0-5.0 RL MS Soil	6419532
SL-125-SA7-SB-4.0-5.0 RL LCS Soil	6419533
SL-170-SA7-SB-4.0-5.0 Soil	6419534
SL-170-SA7-SB-9.0-10.0 Soil	6419535
DUP007-SA7-QC-092611 Soil	6419536
DUP008-SA7-QC-092611 Soil	6419537
TB-092611 Water	6419538

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Chad A. Moline
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-125-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SB-4.0-5.0

LLI Sample # SW 6419528
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:52

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL125 SDG#: DE255-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	500	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300	1
04688	Benzo(g,h,i)perylene	191-24-2	51	J	17	170	1
04688	Benzoic acid	65-85-0	170	U	170	500	1
04688	Benzyl alcohol	100-51-6	170	U	170	500	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170	1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170	1
04688	4-Chloroaniline	106-47-8	67	U	67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170	1
04688	Chrysene	218-01-9	52	J	17	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	330	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	Diethylphthalate	84-66-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170	1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170	1
04688	Dimethylphthalate	131-11-3	17	U	17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500	1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	U	17	330	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	33	U	33	170	1
04688	4-Methylphenol	106-44-5	33	U	33	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	33	U	33	170	1
04688	4-Nitroaniline	100-01-6	67	U	67	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	500	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-125-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SB-4.0-5.0

LLI Sample # SW 6419528
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:52

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL125 SDG#: DE255-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	17	U	17	170	1
04688	Pentachlorophenol	87-86-5	170	U	170	500	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170	1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	6.8	U	6.8	17	10
10138	Acenaphthylene	208-96-8	3.4	U	3.4	17	10
10138	Anthracene	120-12-7	3.4	U	3.4	17	10
10138	Benzo(a)anthracene	56-55-3	7.6	J	6.8	17	10
10138	Benzo(a)pyrene	50-32-8	15	J	6.8	17	10
10138	Benzo(b)fluoranthene	205-99-2	51		6.8	17	10
10138	Benzo(k)fluoranthene	207-08-9	6.8	U	6.8	17	10
10138	Dibenz(a,h)anthracene	53-70-3	9.0	J	6.8	17	10
10138	Fluoranthene	206-44-0	6.8	U	6.8	17	10
10138	Fluorene	86-73-7	6.8	U	6.8	17	10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	6.8	U	6.8	17	10
10138	1-Methylnaphthalene	90-12-0	6.8	U	6.8	17	10
10138	2-Methylnaphthalene	91-57-6	6.8	U	6.8	17	10
10138	Naphthalene	91-20-3	6.8	U	6.8	17	10
10138	N-Nitrosodimethylamine	62-75-9	6.8	U	6.8	17	10
10138	Phenanthrene	85-01-8	6.8	U	6.8	17	10
10138	Pyrene	129-00-0	10	J	6.8	17	10
	Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7	1
10225	PCB-1254	11097-69-1	0.92	J	0.34	1.7	1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-125-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SB-4.0-5.0

LLI Sample # SW 6419528
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:52

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL125 SDG#: DE255-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.						
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,500		5.94	19.6	1
07914	Boron	7440-42-8	5.22		0.353	4.91	1
01650	Calcium	7440-70-2	3,440		2.45	19.6	1
01654	Iron	7439-89-6	18,500		2.56	19.6	1
01656	Lithium	7439-93-2	25.2		0.61	2.0	1
01657	Magnesium	7439-95-4	4,360		0.432	9.81	1
06958	Manganese	7439-96-5	276		0.0353	0.491	1
10145	Phosphorus	7723-14-0	326		0.343	9.81	1
01662	Potassium	7440-09-7	2,720		11.1	49.1	1
01667	Sodium	7440-23-5	65.5	J	5.84	98.1	1
07968	Strontium	7440-24-6	11.5		0.0245	0.491	1
06969	Tin	7440-31-5	2.41	J	0.314	9.81	1
06970	Titanium	7440-32-6	1,040		0.0697	0.981	1
10146	Zirconium	7440-67-7	1.22	J	0.451	4.91	1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.170	J	0.0733	0.198	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.63		0.0793	0.396	2
06126	Barium	7440-39-3	103		0.105	0.396	2
06127	Beryllium	7440-41-7	0.595		0.0159	0.0991	2
06128	Cadmium	7440-43-9	0.124		0.0436	0.0991	2
06131	Chromium	7440-47-3	17.6		0.119	0.396	2
06132	Cobalt	7440-48-4	5.98		0.0198	0.0991	2
06133	Copper	7440-50-8	8.11		0.0793	0.396	2
06135	Lead	7439-92-1	5.24		0.0101	0.198	2
06138	Molybdenum	7439-98-7	0.430		0.0495	0.0991	2
06139	Nickel	7440-02-0	11.9		0.0991	0.396	2
06141	Selenium	7782-49-2	0.171	J	0.0575	0.396	2
06142	Silver	7440-22-4	0.0200	J	0.0141	0.0991	2
06145	Thallium	7440-28-0	0.318		0.0297	0.0991	2
06148	Vanadium	7440-62-2	36.3		0.0218	0.0991	2
06149	Zinc	7440-66-6	73.9		0.555	2.97	2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0068	U	0.0068	0.0962	1
Wet Chemistry		**EPA 300.0**	**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.83	1.0	1
		EPA 314.0	**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.6	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-125-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SB-4.0-5.0

LLI Sample # SW 6419528
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:52

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL125 SDG#: DE255-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		mg/kg		mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.64		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	
11624	Moisture Content by 160.3	n.a.	2.0		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11279SLB026	10/13/2011 16:52	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11278SLI026	10/11/2011 12:41	Brian K Graham	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11278SLI026	10/06/2011 11:50	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11279SLB026	10/06/2011 23:15	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112790014A	10/08/2011 07:54	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112790014A	10/06/2011 18:30	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	112725708003	10/04/2011 23:55	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112725708003	10/04/2011 23:55	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112725708003	10/04/2011 23:55	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112725708003	10/04/2011 23:55	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112725708003	10/04/2011 23:55	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112725708003	10/04/2011 23:55	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112725708003	10/04/2011 23:55	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112725708003	10/04/2011 23:55	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112725708003	10/04/2011 23:55	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112725708003	10/04/2011 23:55	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112725708003	10/04/2011 23:55	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112725708003	10/04/2011 23:55	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112725708003	10/04/2011 23:55	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112725708003	10/04/2011 23:55	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112721026003A	09/30/2011 09:43	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112721026003A	09/30/2011 09:43	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-125-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SB-4.0-5.0

LLI Sample # SW 6419528
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:52

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL125 SDG#: DE255-01BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112721026003D	09/30/2011 09:43	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112721026003A	09/30/2011 09:43	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112721026003A	09/30/2011 09:43	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112721026003A	09/30/2011 09:43	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112721026003A	09/30/2011 09:43	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112721026003A	09/30/2011 09:43	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112721026003A	09/30/2011 09:43	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112721026003C	09/30/2011 09:43	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112721026003A	09/30/2011 09:43	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112721026003B	09/30/2011 09:43	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112721026003A	09/30/2011 09:43	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112721026003A	09/30/2011 09:43	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112721026003A	09/30/2011 09:43	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112721026003A	09/30/2011 09:43	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112725711004	09/30/2011 08:17	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708003	09/29/2011 22:37	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026003	09/29/2011 22:39	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711004	09/30/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11276621202B	10/05/2011 02:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621202A	10/06/2011 01:56	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11279243202A	10/08/2011 13:31	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11276621202B	10/03/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621202A	10/04/2011 08:25	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11283039401C	10/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11279243202A	10/06/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401C	09/30/2011 23:10	Scott W Freisher	1

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Analysis Report

Sample Description: SL-125-SA7-SB-4.0-5.0 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SB-4.0-5.0

LLI Sample # SW 6419529
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:52

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL125 SDG#: DE255-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,700		17	170	1
04688	Acenaphthylene	208-96-8	1,900		17	170	1
04688	Aniline	62-53-3	820		170	510	1
04688	Anthracene	120-12-7	1,800		17	170	1
04688	Benzidine	92-87-5	1,200	J	1,200	3,400	1
04688	Benzo(a)anthracene	56-55-3	1,900		17	170	1
04688	Benzo(a)pyrene	50-32-8	1,800		17	170	1
04688	Benzo(b)fluoranthene	205-99-2	1,900		17	170	1
04688	Benzo(g,h,i)perylene	191-24-2	1,900		17	170	1
04688	Benzo(k)fluoranthene	207-08-9	1,600		17	170	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	1,600		170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	1,900		17	170	1
04688	Butylbenzylphthalate	85-68-7	1,900		17	170	1
04688	Di-n-butylphthalate	84-74-2	1,800		17	170	1
04688	Carbazole	86-74-8	1,700		17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	1,700		34	170	1
04688	4-Chloroaniline	106-47-8	830		68	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	1,600		17	170	1
04688	2-Chlorophenol	95-57-8	1,700		17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		34	170	1
04688	Chrysene	218-01-9	1,700		17	170	1
04688	Dibenz(a,h)anthracene	53-70-3	2,000		17	170	1
04688	Dibenzofuran	132-64-9	1,600		17	170	1
04688	1,2-Dichlorobenzene	95-50-1	1,600		17	170	1
04688	1,3-Dichlorobenzene	541-73-1	1,600		17	170	1
04688	1,4-Dichlorobenzene	106-46-7	1,600		17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,400		100	340	1
04688	2,4-Dichlorophenol	120-83-2	1,700		17	170	1
04688	Diethylphthalate	84-66-2	1,700		17	170	1
04688	2,4-Dimethylphenol	105-67-9	1,700		34	170	1
04688	3,5-Dimethylphenol	108-68-9	1,900		34	170	1
04688	Dimethylphthalate	131-11-3	1,800		17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	370	J	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	1,700		34	170	1
04688	2,6-Dinitrotoluene	606-20-2	1,800		17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,100		17	340	1
04688	Fluoranthene	206-44-0	1,600		17	170	1
04688	Fluorene	86-73-7	1,800		17	170	1
04688	Hexachlorobenzene	118-74-1	1,800		17	170	1
04688	Hexachlorobutadiene	87-68-3	1,700		68	170	1
04688	Hexachlorocyclopentadiene	77-47-4	1,600		170	510	1
04688	Hexachloroethane	67-72-1	1,500		17	170	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900		17	170	1
04688	Isophorone	78-59-1	1,700		17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-125-SA7-SB-4.0-5.0 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SB-4.0-5.0

LLI Sample # SW 6419529
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:52

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL125 SDG#: DE255-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,600		17	170	1
04688	2-Methylnaphthalene	91-57-6	1,700		17	170	1
04688	2-Methylphenol	95-48-7	1,700		34	170	1
04688	4-Methylphenol	106-44-5	1,600		34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,600		17	170	1
04688	2-Nitroaniline	88-74-4	1,900		17	170	1
04688	3-Nitroaniline	99-09-2	1,700		34	170	1
04688	4-Nitroaniline	100-01-6	1,200		68	170	1
04688	Nitrobenzene	98-95-3	1,700		17	170	1
04688	2-Nitrophenol	88-75-5	1,600		17	170	1
04688	4-Nitrophenol	100-02-7	1,300		170	510	1
04688	N-Nitrosodimethylamine	62-75-9	1,300		34	170	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600		17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	1,900		17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,000		17	170	1
04688	Pentachlorophenol	87-86-5	1,400		170	510	1
04688	Phenanthrene	85-01-8	1,700		17	170	1
04688	Phenol	108-95-2	1,600		17	170	1
04688	Pyrene	129-00-0	1,700		17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	1,700		17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	1,800		34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	1,900		34	170	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	30		6.8	17	10
10138	Acenaphthylene	208-96-8	28		3.4	17	10
10138	Anthracene	120-12-7	30		3.4	17	10
10138	Benzo(a)anthracene	56-55-3	35		6.8	17	10
10138	Benzo(a)pyrene	50-32-8	40		6.8	17	10
10138	Benzo(b)fluoranthene	205-99-2	43		6.8	17	10
10138	Benzo(g,h,i)perylene	191-24-2	23		6.8	17	10
10138	Benzo(k)fluoranthene	207-08-9	41		6.8	17	10
10138	Butylbenzylphthalate	85-68-7	61	U	61	180	10
10138	Di-n-butylphthalate	84-74-2	61	U	61	180	10
10138	Chrysene	218-01-9	39		3.4	17	10
10138	Dibenz(a,h)anthracene	53-70-3	24		6.8	17	10
10138	Diethylphthalate	84-66-2	61	U	61	180	10
10138	Dimethylphthalate	131-11-3	61	U	61	180	10
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	61	U	61	180	10

*=This limit was used in the evaluation of the final result

Sample Description: SL-125-SA7-SB-4.0-5.0 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SB-4.0-5.0

LLI Sample # SW 6419529
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:52

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL125 SDG#: DE255-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	33		6.8	17	10
10138	Fluorene	86-73-7	31		6.8	17	10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	25		6.8	17	10
10138	1-Methylnaphthalene	90-12-0	27		6.8	17	10
10138	2-Methylnaphthalene	91-57-6	28		6.8	17	10
10138	Naphthalene	91-20-3	28		6.8	17	10
10138	N-Nitrosodimethylamine	62-75-9	26		6.8	17	10
10138	Di-n-octylphthalate	117-84-0	65	J	61	180	10
10138	Phenanthrene	85-01-8	30		6.8	17	10
10138	Pyrene	129-00-0	32		6.8	17	10

Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	14		0.34	1.7	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7	1
10225	PCB-1254	11097-69-1	36		0.34	1.7	1
10225	PCB-1260	11096-82-5	14		0.40	1.7	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7	1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,300		5.99	19.8	1
07914	Boron	7440-42-8	201		0.357	4.95	1
01650	Calcium	7440-70-2	4,750		2.48	19.8	1
01654	Iron	7439-89-6	19,300		2.59	19.8	1
01656	Lithium	7439-93-2	127		0.61	2.0	1
01657	Magnesium	7439-95-4	4,990		0.436	9.91	1
06958	Manganese	7439-96-5	335		0.0357	0.495	1
10145	Phosphorus	7723-14-0	437		0.347	9.91	1
01662	Potassium	7440-09-7	3,950		11.2	49.5	1
01667	Sodium	7440-23-5	1,060		5.89	99.1	1
07968	Strontium	7440-24-6	112		0.0248	0.495	1
06969	Tin	7440-31-5	361		0.317	9.91	1
06970	Titanium	7440-32-6	1,330		0.0703	0.991	1
10146	Zirconium	7440-67-7	102		0.456	4.95	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.940		0.0748	0.202	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-125-SA7-SB-4.0-5.0 MS Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SB-4.0-5.0

LLI Sample # SW 6419529
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:52

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL125 SDG#: DE255-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	6.56	0.0808	0.404	2
06126	Barium	7440-39-3	98.8	0.107	0.404	2
06127	Beryllium	7440-41-7	1.38	0.0162	0.101	2
06128	Cadmium	7440-43-9	1.32	0.0445	0.101	2
06131	Chromium	7440-47-3	26.2	0.121	0.404	2
06132	Cobalt	7440-48-4	61.9	0.0202	0.101	2
06133	Copper	7440-50-8	18.0	0.0808	0.404	2
06135	Lead	7439-92-1	8.14	0.0103	0.202	2
06138	Molybdenum	7439-98-7	12.3	0.0505	0.101	2
06139	Nickel	7440-02-0	22.0	0.101	0.404	2
06141	Selenium	7782-49-2	2.50	0.0586	0.404	2
06142	Silver	7440-22-4	11.9	0.0143	0.101	2
06145	Thallium	7440-28-0	0.728	0.0303	0.101	2
06148	Vanadium	7440-62-2	42.8	0.0222	0.101	2
06149	Zinc	7440-66-6	76.0	0.566	3.03	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.175	0.0070	0.0993	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	9.5	0.82	1.0	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	551	9.2	30.6	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	39.4	1.0	5.1	5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	2.0	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

*=This limit was used in the evaluation of the final result

Sample Description: **SL-125-SA7-SB-4.0-5.0 MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SB-4.0-5.0

LLI Sample # SW 6419529
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:52

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL125 SDG#: DE255-01MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11279SLB026	10/13/2011 17:17	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11278SLI026	10/11/2011 13:13	Brian K Graham	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11278SLI026	10/06/2011 11:50	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11279SLB026	10/06/2011 23:15	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112790014A	10/08/2011 08:12	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112790014A	10/06/2011 18:30	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	112725708003	10/05/2011 00:07	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112725708003	10/05/2011 00:07	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112725708003	10/05/2011 00:07	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112725708003	10/05/2011 00:07	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112725708003	10/05/2011 00:07	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112725708003	10/05/2011 00:07	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112725708003	10/05/2011 00:07	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112725708003	10/05/2011 00:07	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112725708003	10/05/2011 00:07	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112725708003	10/05/2011 00:07	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112725708003	10/05/2011 00:07	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112725708003	10/05/2011 00:07	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112725708003	10/05/2011 00:07	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112725708003	10/05/2011 00:07	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112721026003A	09/30/2011 09:52	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112721026003A	09/30/2011 09:52	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112721026003D	09/30/2011 09:52	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112721026003A	09/30/2011 09:52	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112721026003A	09/30/2011 09:52	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112721026003A	09/30/2011 09:52	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112721026003A	09/30/2011 09:52	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112721026003A	09/30/2011 09:52	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112721026003A	09/30/2011 09:52	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112721026003C	09/30/2011 09:52	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112721026003A	09/30/2011 09:52	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112721026003B	09/30/2011 09:52	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112721026003A	09/30/2011 09:52	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112721026003A	09/30/2011 09:52	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112721026003A	09/30/2011 09:52	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112721026003A	09/30/2011 09:52	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112725711004	09/30/2011 08:20	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708003	09/29/2011 22:37	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026003	09/29/2011 22:39	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711004	09/30/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11276621202B	10/05/2011 02:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621202A	10/06/2011 02:42	Elyse P Brunstetter	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-125-SA7-SB-4.0-5.0 MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SB-4.0-5.0

LLI Sample # SW 6419529
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:52

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL125 SDG#: DE255-01MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11279243202A	10/12/2011 10:18	Elyse P Brunstetter	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11276621202B	10/03/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621202A	10/04/2011 08:25	William L Hamaker Jr	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11279243202A	10/06/2011 11:30	Michelle L Lalli	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401C	09/30/2011 23:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-125-SA7-SB-4.0-5.0 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SB-4.0-5.0

LLI Sample # SW 6419530
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:52

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL125 SDG#: DE255-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,300		17	170	1
04688	Acenaphthylene	208-96-8	1,400		17	170	1
04688	Aniline	62-53-3	170	U	170	510	1
04688	Anthracene	120-12-7	1,400		17	170	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzo(a)anthracene	56-55-3	1,500		17	170	1
04688	Benzo(a)pyrene	50-32-8	1,300		17	170	1
04688	Benzo(b)fluoranthene	205-99-2	1,400		17	170	1
04688	Benzo(g,h,i)perylene	191-24-2	1,300		17	170	1
04688	Benzo(k)fluoranthene	207-08-9	1,200		17	170	1
04688	Benzoic acid	65-85-0	480	J	170	510	1
04688	Benzyl alcohol	100-51-6	1,300		170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	1,400		17	170	1
04688	Butylbenzylphthalate	85-68-7	1,400		17	170	1
04688	Di-n-butylphthalate	84-74-2	1,400		17	170	1
04688	Carbazole	86-74-8	1,300		17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	1,300		34	170	1
04688	4-Chloroaniline	106-47-8	570		68	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,300		17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,300		17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,300		17	170	1
04688	2-Chloronaphthalene	91-58-7	1,000		17	170	1
04688	2-Chlorophenol	95-57-8	1,300		17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,300		34	170	1
04688	Chrysene	218-01-9	1,400		17	170	1
04688	Dibenz(a,h)anthracene	53-70-3	1,400		17	170	1
04688	Dibenzofuran	132-64-9	1,300		17	170	1
04688	1,2-Dichlorobenzene	95-50-1	1,200		17	170	1
04688	1,3-Dichlorobenzene	541-73-1	1,300		17	170	1
04688	1,4-Dichlorobenzene	106-46-7	1,200		17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	420		100	340	1
04688	2,4-Dichlorophenol	120-83-2	1,300		17	170	1
04688	Diethylphthalate	84-66-2	1,400		17	170	1
04688	2,4-Dimethylphenol	105-67-9	1,300		34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	Dimethylphthalate	131-11-3	1,400		17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	370	J	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	1,200		34	170	1
04688	2,6-Dinitrotoluene	606-20-2	1,400		17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	1,300		17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,600		17	340	1
04688	Fluoranthene	206-44-0	1,300		17	170	1
04688	Fluorene	86-73-7	1,300		17	170	1
04688	Hexachlorobenzene	118-74-1	1,300		17	170	1
04688	Hexachlorobutadiene	87-68-3	1,400		68	170	1
04688	Hexachlorocyclopentadiene	77-47-4	930		170	510	1
04688	Hexachloroethane	67-72-1	1,200		17	170	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,400		17	170	1
04688	Isophorone	78-59-1	1,300		17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-125-SA7-SB-4.0-5.0 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SB-4.0-5.0

LLI Sample # SW 6419530
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:52

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL125 SDG#: DE255-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1-Methylnaphthalene	90-12-0	1,300		17	170	1
04688	2-Methylnaphthalene	91-57-6	1,300		17	170	1
04688	2-Methylphenol	95-48-7	1,300		34	170	1
04688	4-Methylphenol	106-44-5	1,200		34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,300		17	170	1
04688	2-Nitroaniline	88-74-4	1,400		17	170	1
04688	3-Nitroaniline	99-09-2	1,200		34	170	1
04688	4-Nitroaniline	100-01-6	1,100		68	170	1
04688	Nitrobenzene	98-95-3	1,300		17	170	1
04688	2-Nitrophenol	88-75-5	1,300		17	170	1
04688	4-Nitrophenol	100-02-7	1,100		170	510	1
04688	N-Nitrosodimethylamine	62-75-9	1,000		34	170	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,200		17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	1,400		17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,500		17	170	1
04688	Pentachlorophenol	87-86-5	1,100		170	510	1
04688	Phenanthrene	85-01-8	1,300		17	170	1
04688	Phenol	108-95-2	1,200		17	170	1
04688	Pyrene	129-00-0	1,300		17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	1,300		17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	1,300		34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	1,400		34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	23		6.8	17	10
10138	Acenaphthylene	208-96-8	22		3.4	17	10
10138	Anthracene	120-12-7	25		3.4	17	10
10138	Benzo(a)anthracene	56-55-3	37		6.8	17	10
10138	Benzo(a)pyrene	50-32-8	60		6.8	17	10
10138	Benzo(b)fluoranthene	205-99-2	160		6.8	17	10
10138	Benzo(g,h,i)perylene	191-24-2	34		6.8	17	10
10138	Benzo(k)fluoranthene	207-08-9	46		6.8	17	10
10138	Butylbenzylphthalate	85-68-7	61	U	61	180	10
10138	Di-n-butylphthalate	84-74-2	61	U	61	180	10
10138	Chrysene	218-01-9	100		3.4	17	10
10138	Dibenz(a,h)anthracene	53-70-3	25		6.8	17	10
10138	Diethylphthalate	84-66-2	61	U	61	180	10
10138	Dimethylphthalate	131-11-3	61	U	61	180	10
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	140	J	61	180	10

*=This limit was used in the evaluation of the final result

Sample Description: SL-125-SA7-SB-4.0-5.0 MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SB-4.0-5.0

LLI Sample # SW 6419530
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:52

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL125 SDG#: DE255-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Fluoranthene	206-44-0	33		6.8	17	10
10138	Fluorene	86-73-7	24		6.8	17	10
10138	Indeno(1,2,3-cd)pyrene	193-39-5	25		6.8	17	10
10138	1-Methylnaphthalene	90-12-0	22		6.8	17	10
10138	2-Methylnaphthalene	91-57-6	23		6.8	17	10
10138	Naphthalene	91-20-3	22		6.8	17	10
10138	N-Nitrosodimethylamine	62-75-9	22		6.8	17	10
10138	Di-n-octylphthalate	117-84-0	73	J	61	180	10
10138	Phenanthrene	85-01-8	26		6.8	17	10
10138	Pyrene	129-00-0	51		6.8	17	10
	Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	31		1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	9.4		0.34	1.7	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7	1
10225	PCB-1260	11096-82-5	7.0		0.40	1.7	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7	1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,100		6.17	20.4	1
07914	Boron	7440-42-8	207		0.367	5.10	1
01650	Calcium	7440-70-2	4,340		2.55	20.4	1
01654	Iron	7439-89-6	19,300		2.66	20.4	1
01656	Lithium	7439-93-2	129		0.63	2.0	1
01657	Magnesium	7439-95-4	4,780		0.449	10.2	1
06958	Manganese	7439-96-5	338		0.0367	0.510	1
10145	Phosphorus	7723-14-0	427		0.357	10.2	1
01662	Potassium	7440-09-7	3,860		11.5	51.0	1
01667	Sodium	7440-23-5	1,090		6.07	102	1
07968	Strontium	7440-24-6	113		0.0255	0.510	1
06969	Tin	7440-31-5	374		0.327	10.2	1
06970	Titanium	7440-32-6	1,310		0.0724	1.02	1
10146	Zirconium	7440-67-7	104		0.469	5.10	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.942		0.0748	0.202	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-125-SA7-SB-4.0-5.0 MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SB-4.0-5.0

LLI Sample # SW 6419530
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:52

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL125 SDG#: DE255-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	6.91	0.0808	0.404	2
06126	Barium	7440-39-3	105	0.107	0.404	2
06127	Beryllium	7440-41-7	1.38	0.0162	0.101	2
06128	Cadmium	7440-43-9	1.44	0.0445	0.101	2
06131	Chromium	7440-47-3	27.7	0.121	0.404	2
06132	Cobalt	7440-48-4	65.0	0.0202	0.101	2
06133	Copper	7440-50-8	19.3	0.0808	0.404	2
06135	Lead	7439-92-1	8.60	0.0103	0.202	2
06138	Molybdenum	7439-98-7	13.0	0.0505	0.101	2
06139	Nickel	7440-02-0	23.7	0.101	0.404	2
06141	Selenium	7782-49-2	2.59	0.0586	0.404	2
06142	Silver	7440-22-4	12.6	0.0143	0.101	2
06145	Thallium	7440-28-0	0.784	0.0303	0.101	2
06148	Vanadium	7440-62-2	44.9	0.0222	0.101	2
06149	Zinc	7440-66-6	78.3	0.566	3.03	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.169	0.0068	0.0968	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	2.0	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11279SLB026	10/13/2011 17:42	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11278SLI026	10/11/2011 13:45	Brian K Graham	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11278SLI026	10/06/2011 11:50	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11279SLB026	10/06/2011 23:15	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112790014A	10/08/2011 08:31	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112790014A	10/06/2011 18:30	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	112725708003	10/05/2011 00:12	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112725708003	10/05/2011 00:12	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112725708003	10/05/2011 00:12	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-125-SA7-SB-4.0-5.0 MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SB-4.0-5.0

LLI Sample # SW 6419530
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:52

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL125 SDG#: DE255-01MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	112725708003	10/05/2011 00:12	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112725708003	10/05/2011 00:12	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112725708003	10/05/2011 00:12	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112725708003	10/05/2011 00:12	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112725708003	10/05/2011 00:12	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112725708003	10/05/2011 00:12	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112725708003	10/05/2011 00:12	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112725708003	10/05/2011 00:12	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112725708003	10/05/2011 00:12	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112725708003	10/05/2011 00:12	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112725708003	10/05/2011 00:12	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112721026003A	09/30/2011 09:55	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112721026003A	09/30/2011 09:55	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112721026003D	09/30/2011 09:55	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112721026003A	09/30/2011 09:55	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112721026003A	09/30/2011 09:55	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112721026003A	09/30/2011 09:55	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112721026003A	09/30/2011 09:55	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112721026003A	09/30/2011 09:55	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112721026003A	09/30/2011 09:55	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112721026003C	09/30/2011 09:55	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112721026003A	09/30/2011 09:55	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112721026003B	09/30/2011 09:55	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112721026003A	09/30/2011 09:55	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112721026003A	09/30/2011 09:55	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112721026003A	09/30/2011 09:55	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112721026003A	09/30/2011 09:55	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112725711004	09/30/2011 08:25	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708003	09/29/2011 22:37	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026003	09/29/2011 22:39	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711004	09/30/2011 02:00	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401C	09/30/2011 23:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-125-SA7-SB-4.0-5.0 DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SB-4.0-5.0

LLI Sample # SW 6419531
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:52

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL125 SDG#: DE255-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,000		6.05	20.0	1
07914	Boron	7440-42-8	5.25		0.360	5.00	1
01650	Calcium	7440-70-2	3,320		2.50	20.0	1
01654	Iron	7439-89-6	18,800		2.61	20.0	1
01656	Lithium	7439-93-2	26.1		0.62	2.0	1
01657	Magnesium	7439-95-4	4,500		0.440	10.0	1
06958	Manganese	7439-96-5	268		0.0360	0.500	1
10145	Phosphorus	7723-14-0	348		0.350	10.0	1
01662	Potassium	7440-09-7	2,870		11.3	50.0	1
01667	Sodium	7440-23-5	67.4	J	5.95	100	1
07968	Strontium	7440-24-6	11.3		0.0250	0.500	1
06969	Tin	7440-31-5	2.50	J	0.320	10.0	1
06970	Titanium	7440-32-6	1,100		0.0710	1.00	1
10146	Zirconium	7440-67-7	1.91	J	0.460	5.00	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0967	J	0.0740	0.200	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.91		0.0800	0.400	2
06126	Barium	7440-39-3	78.5		0.106	0.400	2
06127	Beryllium	7440-41-7	0.464		0.0160	0.100	2
06128	Cadmium	7440-43-9	0.108		0.0440	0.100	2
06131	Chromium	7440-47-3	14.4		0.120	0.400	2
06132	Cobalt	7440-48-4	4.78		0.0200	0.100	2
06133	Copper	7440-50-8	6.26		0.0800	0.400	2
06135	Lead	7439-92-1	4.14		0.0102	0.200	2
06138	Molybdenum	7439-98-7	0.390		0.0500	0.100	2
06139	Nickel	7440-02-0	9.76		0.100	0.400	2
06141	Selenium	7782-49-2	0.114	J	0.0580	0.400	2
06142	Silver	7440-22-4	0.0162	J	0.0142	0.100	2
06145	Thallium	7440-28-0	0.277		0.0300	0.100	2
06148	Vanadium	7440-62-2	29.7		0.0220	0.100	2
06149	Zinc	7440-66-6	57.9		0.560	3.00	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0069	U	0.0069	0.0986	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.83	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-125-SA7-SB-4.0-5.0 DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SB-4.0-5.0

LLI Sample # SW 6419531
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:52

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL125 SDG#: DE255-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.67	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11626	28a Moisture Content by 160.3	n.a.	2.2	0.50	0.50	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					
11625	Moisture Content by 160.3	n.a.	2.0	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	112725708003	10/05/2011 00:03	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112725708003	10/05/2011 00:03	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112725708003	10/05/2011 00:03	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112725708003	10/05/2011 00:03	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112725708003	10/05/2011 00:03	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112725708003	10/05/2011 00:03	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112725708003	10/05/2011 00:03	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112725708003	10/05/2011 00:03	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112725708003	10/05/2011 00:03	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112725708003	10/05/2011 00:03	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112725708003	10/05/2011 00:03	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112725708003	10/05/2011 00:03	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112725708003	10/05/2011 00:03	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112725708003	10/05/2011 00:03	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112721026003A	09/30/2011 09:49	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112721026003A	09/30/2011 09:49	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112721026003D	09/30/2011 09:49	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112721026003A	09/30/2011 09:49	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112721026003A	09/30/2011 09:49	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112721026003A	09/30/2011 09:49	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112721026003A	09/30/2011 09:49	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112721026003A	09/30/2011 09:49	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112721026003A	09/30/2011 09:49	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112721026003C	09/30/2011 09:49	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112721026003A	09/30/2011 09:49	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112721026003B	09/30/2011 09:49	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-125-SA7-SB-4.0-5.0 DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SB-4.0-5.0

LLI Sample # SW 6419531
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:52

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL125 SDG#: DE255-01DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	112721026003A	09/30/2011 09:49	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112721026003A	09/30/2011 09:49	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112721026003A	09/30/2011 09:49	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112721026003A	09/30/2011 09:49	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112725711004	09/30/2011 08:19	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708003	09/29/2011 22:37	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026003	09/29/2011 22:39	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711004	09/30/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11276621202B	10/05/2011 02:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621202A	10/06/2011 02:19	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11279243202A	10/08/2011 14:32	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11276621202B	10/03/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621202A	10/04/2011 08:25	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11283039401C	10/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11279243202A	10/06/2011 11:30	Michelle L Lalli	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11273162401C	09/30/2011 23:10	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401C	09/30/2011 23:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-125-SA7-SB-4.0-5.0 RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SB-4.0-5.0

LLI Sample # SW 6419532
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:52

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL125 SDG#: DE255-01RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	1.5	J	0.34	1.7	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7	1
10225	PCB-1260	11096-82-5	1.3	J	0.40	1.7	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7	1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Wet Chemistry	**EPA 160.3 modified**		%		%	%	
11625	Moisture Content by 160.3	n.a.	2.0		0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112790014A	10/08/2011 08:49	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112790014A	10/06/2011 18:30	Sally L Appleyard	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401C	09/30/2011 23:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-125-SA7-SB-4.0-5.0 RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SB-4.0-5.0

LLI Sample # SW 6419533
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:52

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL125 SDG#: DE255-01RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3	1
10225	PCB-1016	12674-11-2	1.7		0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7	1
10225	PCB-1260	11096-82-5	0.97	J	0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112790014A	10/08/2011 09:08	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112790014A	10/06/2011 18:30	Sally L Appleyard	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-170-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-170-SA7-SB-4.0-5.0

LLI Sample # SW 6419534
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:15

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1704 SDG#: DE255-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.2	U	17.2	34.3	1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	2-butoxy-Ethanol	111-76-2	1,700	U	1,700	1,700	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	68	U	68	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	68	U	68	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-170-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-170-SA7-SB-4.0-5.0

LLI Sample # SW 6419534
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:15

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1704 SDG#: DE255-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	2-phenoxy-Ethanol	122-99-6	1,700	U	1,700	1,700	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.2	U	6.2	19	1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.3	U	0.3	1.3	30.27
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	620	U	620	1,500	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-170-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-170-SA7-SB-4.0-5.0

LLI Sample # SW 6419534
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:15

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1704 SDG#: DE255-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.46	J	0.40	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520	1
10501	Isopropanol	67-63-0	100	U	100	520	1
10501	Methanol	67-56-1	100	U	100	520	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10	1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10	1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6	1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6	1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2	1
10199	EFH (C15-C20)	n.a.	0.45	J	0.41	1.2	1
10199	EFH (C21-C30)	n.a.	2.5		0.41	1.2	1
10199	EFH (C30 - C40)	n.a.	8.2		0.41	1.2	1
10199	EFH (C8-C11)	n.a.	0.41	U	0.41	1.2	1

Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. The following corrective action was taken:
The sample was re-analyzed outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second analysis so all original results are reported.
Similar results were obtained in both trials.

Sample Description: SL-170-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-170-SA7-SB-4.0-5.0

LLI Sample # SW 6419534
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:15

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1704 SDG#: DE255-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,400		6.13	20.3	1
07914	Boron	7440-42-8	5.43		0.365	5.06	1
01650	Calcium	7440-70-2	2,610		2.53	20.3	1
01654	Iron	7439-89-6	17,900		2.64	20.3	1
01656	Lithium	7439-93-2	23.0		0.63	2.0	1
01657	Magnesium	7439-95-4	3,900		0.446	10.1	1
06958	Manganese	7439-96-5	246		0.0365	0.506	1
10145	Phosphorus	7723-14-0	290		0.354	10.1	1
01662	Potassium	7440-09-7	2,800		11.4	50.6	1
01667	Sodium	7440-23-5	93.2	J	6.03	101	1
07968	Strontium	7440-24-6	12.0		0.0253	0.506	1
06969	Tin	7440-31-5	2.47	J	0.324	10.1	1
06970	Titanium	7440-32-6	1,020		0.0719	1.01	1
10146	Zirconium	7440-67-7	1.09	J	0.466	5.06	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0865	J	0.0742	0.201	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.67		0.0802	0.401	2
06126	Barium	7440-39-3	94.4		0.106	0.401	2
06127	Beryllium	7440-41-7	0.551		0.0160	0.100	2
06128	Cadmium	7440-43-9	0.102		0.0441	0.100	2
06131	Chromium	7440-47-3	14.5		0.120	0.401	2
06132	Cobalt	7440-48-4	5.72		0.0201	0.100	2
06133	Copper	7440-50-8	6.64		0.0802	0.401	2
06135	Lead	7439-92-1	4.95		0.0102	0.201	2
06138	Molybdenum	7439-98-7	0.476		0.0501	0.100	2
06139	Nickel	7440-02-0	10.2		0.100	0.401	2
06141	Selenium	7782-49-2	0.120	J	0.0582	0.401	2
06142	Silver	7440-22-4	0.0228	J	0.0142	0.100	2
06145	Thallium	7440-28-0	0.290		0.0301	0.100	2
06148	Vanadium	7440-62-2	30.9		0.0221	0.100	2
06149	Zinc	7440-66-6	68.7		0.562	3.01	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0070	U	0.0070	0.0997	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.6		0.83	1.0	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.83	U	0.83	1.5	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.44	J	0.20	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-170-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-170-SA7-SB-4.0-5.0

LLI Sample # SW 6419534
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:15

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1704 SDG#: DE255-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.91	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	3.2	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-170-SA7-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11274SLE026	10/06/2011 20:20	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11279SLB026	10/13/2011 18:07	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11278SLI026	10/11/2011 14:18	Brian K Graham	1
11630	NDMA Soil Microwave	SW-846 3546	1	11274SLE026	10/03/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11278SLI026	10/06/2011 11:50	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11279SLB026	10/06/2011 23:15	Karen L Beyer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11265A34B	09/29/2011 16:55	Carrie E Miller	30.27
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201127025669	09/27/2011 21:37	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201127025669	09/27/2011 21:38	Lois E Hiltz	n.a.
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670064A	09/29/2011 22:20	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112790014A	10/08/2011 09:26	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112790014A	10/06/2011 18:30	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670064A	09/28/2011 12:30	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112730032A	10/03/2011 21:07	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112770027A	10/05/2011 01:09	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112780040A	10/10/2011 23:41	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112780028A	10/08/2011 08:13	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112780028A	10/06/2011 02:30	Sherry L Morrow	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-170-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-170-SA7-SB-4.0-5.0

LLI Sample # SW 6419534
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:15

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1704 SDG#: DE255-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10303	Terphenyls soil prep	SW-846 3550B	1	112780040A	10/06/2011 07:55	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112730032A	10/03/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112770027A	10/04/2011 17:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112725708003	10/05/2011 00:20	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112725708003	10/05/2011 00:20	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112725708003	10/05/2011 00:20	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112725708003	10/05/2011 00:20	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112725708003	10/05/2011 00:20	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112725708003	10/05/2011 00:20	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112725708003	10/05/2011 00:20	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112725708003	10/05/2011 00:20	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112725708003	10/05/2011 00:20	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112725708003	10/05/2011 00:20	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112725708003	10/05/2011 00:20	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112725708003	10/05/2011 00:20	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112725708003	10/05/2011 00:20	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112725708003	10/05/2011 00:20	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112721026003A	09/30/2011 10:08	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112721026003A	09/30/2011 10:08	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112721026003D	09/30/2011 10:08	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112721026003A	09/30/2011 10:08	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112721026003A	09/30/2011 10:08	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112721026003A	09/30/2011 10:08	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112721026003A	09/30/2011 10:08	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112721026003A	09/30/2011 10:08	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112721026003A	09/30/2011 10:08	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112721026003C	09/30/2011 10:08	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112721026003A	09/30/2011 10:08	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112721026003B	09/30/2011 10:08	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112721026003A	09/30/2011 10:08	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112721026003A	09/30/2011 10:08	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112721026003A	09/30/2011 10:08	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112721026003A	09/30/2011 10:08	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112725711004	09/30/2011 08:26	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708003	09/29/2011 22:37	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026003	09/29/2011 22:39	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711004	09/30/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11276621202B	10/05/2011 03:04	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11276621202B	10/05/2011 03:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621202A	10/06/2011 03:05	Elyse P Brunstetter	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-170-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-170-SA7-SB-4.0-5.0

LLI Sample # SW 6419534
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:15

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1704 SDG#: DE255-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11279243202A	10/08/2011 14:38	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11276621202B	10/03/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621202A	10/04/2011 08:25	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11283039401C	10/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11279243202A	10/06/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401C	09/30/2011 23:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-170-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-170-SA7-SB-9.0-10.0

LLI Sample # SW 6419535
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:30

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1709 SDG#: DE255-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.3	U	17.3	34.5	1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	2-butoxy-Ethanol	111-76-2	1,700	U	1,700	1,700	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	68	U	68	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	68	U	68	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-170-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-170-SA7-SB-9.0-10.0

LLI Sample # SW 6419535
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:30

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1709 SDG#: DE255-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	2-phenoxy-Ethanol	122-99-6	1,700	U	1,700	1,700	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.2	U	6.2	19	1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.8	J	0.2	1.2	28.6
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	620	U	620	1,600	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-170-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-170-SA7-SB-9.0-10.0

LLI Sample # SW 6419535
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:30

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1709 SDG#: DE255-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520	1
10501	Isopropanol	67-63-0	100	U	100	520	1
10501	Methanol	67-56-1	100	U	100	520	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10	1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10	1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.6	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.6	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.6	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	J	0.41	1.2	1
10199	EFH (C15-C20)	n.a.	0.41	U	0.41	1.2	1
10199	EFH (C21-C30)	n.a.	1.7		0.41	1.2	1
10199	EFH (C30 - C40)	n.a.	5.1		0.41	1.2	1
10199	EFH (C8-C11)	n.a.	0.41	U	0.41	1.2	1

Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. The following corrective action was taken:
The sample was re-analyzed outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second analysis so all original results are reported.
Similar results were obtained in both trials.

Sample Description: **SL-170-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-170-SA7-SB-9.0-10.0

LLI Sample # SW 6419535
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:30

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1709 SDG#: DE255-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,400		6.22	20.6	1
07914	Boron	7440-42-8	5.69		0.370	5.14	1
01650	Calcium	7440-70-2	2,800		2.57	20.6	1
01654	Iron	7439-89-6	17,400		2.68	20.6	1
01656	Lithium	7439-93-2	23.1		0.64	2.1	1
01657	Magnesium	7439-95-4	3,930		0.452	10.3	1
06958	Manganese	7439-96-5	241		0.0370	0.514	1
10145	Phosphorus	7723-14-0	300		0.360	10.3	1
01662	Potassium	7440-09-7	2,760		11.6	51.4	1
01667	Sodium	7440-23-5	116		6.12	103	1
07968	Strontium	7440-24-6	12.3		0.0257	0.514	1
06969	Tin	7440-31-5	2.54	J	0.329	10.3	1
06970	Titanium	7440-32-6	1,020		0.0730	1.03	1
10146	Zirconium	7440-67-7	0.718	J	0.473	5.14	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0852	J	0.0761	0.206	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.61		0.0823	0.411	2
06126	Barium	7440-39-3	94.2		0.109	0.411	2
06127	Beryllium	7440-41-7	0.570		0.0165	0.103	2
06128	Cadmium	7440-43-9	0.103	J	0.0452	0.103	2
06131	Chromium	7440-47-3	15.9		0.123	0.411	2
06132	Cobalt	7440-48-4	5.50		0.0206	0.103	2
06133	Copper	7440-50-8	6.92		0.0823	0.411	2
06135	Lead	7439-92-1	5.08		0.0105	0.206	2
06138	Molybdenum	7439-98-7	0.459		0.0514	0.103	2
06139	Nickel	7440-02-0	10.6		0.103	0.411	2
06141	Selenium	7782-49-2	0.122	J	0.0596	0.411	2
06142	Silver	7440-22-4	0.0163	J	0.0146	0.103	2
06145	Thallium	7440-28-0	0.268		0.0308	0.103	2
06148	Vanadium	7440-62-2	32.3		0.0226	0.103	2
06149	Zinc	7440-66-6	69.5		0.576	3.08	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0070	U	0.0070	0.100	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.3		0.83	1.0	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.83	1.6	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-170-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-170-SA7-SB-9.0-10.0

LLI Sample # SW 6419535
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:30

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1709 SDG#: DE255-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.84	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	3.7	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-170-SA7-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11274SLE026	10/06/2011 20:39	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11279SLB026	10/13/2011 18:32	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11278SLI026	10/11/2011 14:51	Brian K Graham	1
11630	NDMA Soil Microwave	SW-846 3546	1	11274SLE026	10/03/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11278SLI026	10/06/2011 11:50	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11279SLB026	10/06/2011 23:15	Karen L Beyer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11265A34B	09/29/2011 17:32	Laura M Krieger	28.6
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201127025669	09/27/2011 21:39	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201127025669	09/27/2011 21:40	Lois E Hiltz	n.a.
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670064A	09/29/2011 22:29	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112790014A	10/08/2011 09:45	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112790014A	10/06/2011 18:30	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670064A	09/28/2011 12:30	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112730032A	10/03/2011 21:23	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112770027A	10/05/2011 01:21	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112780040A	10/11/2011 00:09	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112780028A	10/08/2011 09:24	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112780028A	10/06/2011 02:30	Sherry L Morrow	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-170-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-170-SA7-SB-9.0-10.0

LLI Sample # SW 6419535
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:30

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1709 SDG#: DE255-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10303	Terphenyls soil prep	SW-846 3550B	1	112780040A	10/06/2011 07:55	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112730032A	10/03/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112770027A	10/04/2011 17:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112725708003	10/05/2011 00:32	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112725708003	10/05/2011 00:32	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112725708003	10/05/2011 00:32	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112725708003	10/05/2011 00:32	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112725708003	10/05/2011 00:32	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112725708003	10/05/2011 00:32	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112725708003	10/05/2011 00:32	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112725708003	10/05/2011 00:32	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112725708003	10/05/2011 00:32	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112725708003	10/05/2011 00:32	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112725708003	10/05/2011 00:32	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112725708003	10/05/2011 00:32	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112725708003	10/05/2011 00:32	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112725708003	10/05/2011 00:32	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112721026003A	09/30/2011 10:11	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112721026003A	09/30/2011 10:11	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112721026003D	09/30/2011 10:11	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112721026003A	09/30/2011 10:11	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112721026003A	09/30/2011 10:11	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112721026003A	09/30/2011 10:11	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112721026003A	09/30/2011 10:11	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112721026003A	09/30/2011 10:11	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112721026003A	09/30/2011 10:11	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112721026003C	09/30/2011 10:11	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112721026003A	09/30/2011 10:11	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112721026003B	09/30/2011 10:11	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112721026003A	09/30/2011 10:11	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112721026003A	09/30/2011 10:11	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112721026003A	09/30/2011 10:11	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112721026003A	09/30/2011 10:11	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112725711004	09/30/2011 08:27	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708003	09/29/2011 22:37	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026003	09/29/2011 22:39	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711004	09/30/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11276621202B	10/05/2011 03:42	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11276621202B	10/05/2011 03:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621202A	10/06/2011 03:51	Elyse P Brunstetter	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-170-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-170-SA7-SB-9.0-10.0

LLI Sample # SW 6419535
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:30

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

S1709 SDG#: DE255-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11279243202A	10/08/2011 15:05	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11276621202B	10/03/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621202A	10/04/2011 08:25	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11283039401C	10/10/2011 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11279243202A	10/06/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401C	09/30/2011 23:10	Scott W Freisher	1

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Analysis Report

Sample Description: DUP007-SA7-QC-092611 Soil
SSFL Area IV Collocated Soil Sampling
DUP007-SA7-QC-092611

LLI Sample # SW 6419536
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:23

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP07 SDG#: DE255-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.6	U	17.6	35.1	1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	70	U	70	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	70	U	70	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP007-SA7-QC-092611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP007-SA7-QC-092611

LLI Sample # SW 6419536
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:23

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP07 SDG#: DE255-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	Tetralin	119-64-2	180	U	180	180	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.3	U	6.3	19	1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.7	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.7	1
10138	Pyrene	129-00-0	0.70	U	0.70	1.7	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0	24.22
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	630	U	630	1,600	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **DUP007-SA7-QC-092611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP007-SA7-QC-092611

LLI Sample # SW 6419536
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:23

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP07 SDG#: DE255-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530	1
10501	Isopropanol	67-63-0	110	U	110	530	1
10501	Methanol	67-56-1	110	U	110	530	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11	1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11	1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3	1
10199	EFH (C15-C20)	n.a.	0.42	U	0.42	1.3	1
10199	EFH (C21-C30)	n.a.	2.6		0.42	1.3	1
10199	EFH (C30 - C40)	n.a.	4.4		0.42	1.3	1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3	1

Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. The following corrective action was taken:
The sample was re-analyzed outside of the method required holding time, and the method blank results are within the acceptance limits. The hold time had expired prior to the second analysis so all original results are reported.
Similar results were obtained in both trials.

Sample Description: **DUP007-SA7-QC-092611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP007-SA7-QC-092611

LLI Sample # SW 6419536
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:23

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP07 SDG#: DE255-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,000		6.19	20.5	1
07914	Boron	7440-42-8	5.75		0.368	5.12	1
01650	Calcium	7440-70-2	3,920		2.56	20.5	1
01654	Iron	7439-89-6	18,600		2.67	20.5	1
01656	Lithium	7439-93-2	23.8		0.63	2.0	1
01657	Magnesium	7439-95-4	4,210		0.450	10.2	1
06958	Manganese	7439-96-5	231		0.0368	0.512	1
10145	Phosphorus	7723-14-0	265		0.358	10.2	1
01662	Potassium	7440-09-7	2,640		11.6	51.2	1
01667	Sodium	7440-23-5	107		6.09	102	1
07968	Strontium	7440-24-6	18.1		0.0256	0.512	1
06969	Tin	7440-31-5	2.65	J	0.327	10.2	1
06970	Titanium	7440-32-6	1,080		0.0726	1.02	1
10146	Zirconium	7440-67-7	0.923	J	0.471	5.12	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.101	J	0.0757	0.205	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.03		0.0818	0.409	2
06126	Barium	7440-39-3	97.0		0.108	0.409	2
06127	Beryllium	7440-41-7	0.701		0.0164	0.102	2
06128	Cadmium	7440-43-9	0.0854	J	0.0450	0.102	2
06131	Chromium	7440-47-3	16.0		0.123	0.409	2
06132	Cobalt	7440-48-4	5.63		0.0205	0.102	2
06133	Copper	7440-50-8	6.64		0.0818	0.409	2
06135	Lead	7439-92-1	6.25		0.0104	0.205	2
06138	Molybdenum	7439-98-7	0.525		0.0512	0.102	2
06139	Nickel	7440-02-0	10.3		0.102	0.409	2
06141	Selenium	7782-49-2	0.0995	J	0.0593	0.409	2
06142	Silver	7440-22-4	0.0266	J	0.0145	0.102	2
06145	Thallium	7440-28-0	0.288		0.0307	0.102	2
06148	Vanadium	7440-62-2	34.1		0.0225	0.102	2
06149	Zinc	7440-66-6	66.6		0.573	3.07	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0072	U	0.0072	0.103	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.83	1.0	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.5		0.83	1.5	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP007-SA7-QC-092611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP007-SA7-QC-092611

LLI Sample # SW 6419536
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:23

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP07 SDG#: DE255-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.81	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	5.1	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11274SLE026	10/06/2011 20:58	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11279SLB026	10/13/2011 18:57	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11278SLI026	10/11/2011 15:24	Brian K Graham	1
11630	NDMA Soil Microwave	SW-846 3546	1	11274SLE026	10/03/2011 09:45	Kerrie A Freeburn	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11278SLI026	10/06/2011 11:50	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11279SLB026	10/06/2011 23:15	Karen L Beyer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11265A34B	09/29/2011 18:08	Carrie E Miller	24.22
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201127025669	09/27/2011 21:41	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201127025669	09/27/2011 21:42	Lois E Hiltz	n.a.
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112670064A	09/29/2011 22:39	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112790014A	10/08/2011 10:03	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112790014A	10/06/2011 18:30	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112670064A	09/28/2011 12:30	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112730032A	10/03/2011 21:40	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112770027A	10/05/2011 01:34	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112780040A	10/11/2011 00:36	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112780028A	10/08/2011 09:48	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112780028A	10/06/2011 02:30	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	112780040A	10/06/2011 07:55	Katheryne V Sponheimer	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP007-SA7-QC-092611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP007-SA7-QC-092611

LLI Sample # SW 6419536
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:23

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP07 SDG#: DE255-04FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112730032A	10/03/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112770027A	10/04/2011 17:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112725708003	10/05/2011 00:36	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112725708003	10/05/2011 00:36	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112725708003	10/05/2011 00:36	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112725708003	10/05/2011 00:36	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112725708003	10/05/2011 00:36	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112725708003	10/05/2011 00:36	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112725708003	10/05/2011 00:36	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112725708003	10/05/2011 00:36	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112725708003	10/05/2011 00:36	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112725708003	10/05/2011 00:36	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112725708003	10/05/2011 00:36	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112725708003	10/05/2011 00:36	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112725708003	10/05/2011 00:36	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112725708003	10/05/2011 00:36	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112721026003A	09/30/2011 10:14	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112721026003A	09/30/2011 10:14	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112721026003D	09/30/2011 10:14	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112721026003A	09/30/2011 10:14	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112721026003A	09/30/2011 10:14	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112721026003A	09/30/2011 10:14	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112721026003A	09/30/2011 10:14	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112721026003A	09/30/2011 10:14	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112721026003A	09/30/2011 10:14	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112721026003C	09/30/2011 10:14	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112721026003A	09/30/2011 10:14	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112721026003B	09/30/2011 10:14	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112721026003A	09/30/2011 10:14	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112721026003A	09/30/2011 10:14	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112721026003A	09/30/2011 10:14	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112721026003A	09/30/2011 10:14	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112725711004	09/30/2011 08:29	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708003	09/29/2011 22:37	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026003	09/29/2011 22:39	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711004	09/30/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11276621202B	10/05/2011 03:55	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11276621202B	10/05/2011 03:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621202A	10/06/2011 04:14	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11279243202A	10/08/2011 15:25	Elyse P Brunstetter	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP007-SA7-QC-092611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP007-SA7-QC-092611

LLI Sample # SW 6419536
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:23

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP07 SDG#: DE255-04FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11276621202B	10/03/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621202A	10/04/2011 08:25	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11283039402A	10/10/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11279243202A	10/06/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401C	09/30/2011 23:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: DUP008-SA7-QC-092611 Soil
SSFL Area IV Collocated Soil Sampling
DUP008-SA7-QC-092611

LLI Sample # SW 6419537
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:00

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP08 SDG#: DE255-05FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	2-butoxy-Ethanol	111-76-2	1,700	U	1,700	1,700	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1

*=This limit was used in the evaluation of the final result

Sample Description: DUP008-SA7-QC-092611 Soil
SSFL Area IV Collocated Soil Sampling
DUP008-SA7-QC-092611

LLI Sample # SW 6419537
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:00

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP08 SDG#: DE255-05FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170	1
04688	2-phenoxy-Ethanol	122-99-6	1,700	U	1,700	1,700	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	1.4	J	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	2.5		0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	3.3		0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.92	J	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	1.5	J	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	1.8		0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.2	U	6.2	19	1
10138	Fluoranthene	206-44-0	0.74	J	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.87	J	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	1.0	J	0.69	1.7	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP008-SA7-QC-092611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP008-SA7-QC-092611

LLI Sample # SW 6419537
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:00

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP08 SDG#: DE255-05FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,600		6.06	20.0	1
07914	Boron	7440-42-8	5.05		0.360	5.00	1
01650	Calcium	7440-70-2	2,570		2.50	20.0	1
01654	Iron	7439-89-6	18,500		2.61	20.0	1
01656	Lithium	7439-93-2	24.6		0.62	2.0	1
01657	Magnesium	7439-95-4	4,400		0.440	10.0	1
06958	Manganese	7439-96-5	248		0.0360	0.500	1
10145	Phosphorus	7723-14-0	360		0.350	10.0	1
01662	Potassium	7440-09-7	2,640		11.3	50.0	1
01667	Sodium	7440-23-5	68.3	J	5.96	100	1
07968	Strontium	7440-24-6	11.2		0.0250	0.500	1
06969	Tin	7440-31-5	2.35	J	0.320	10.0	1
06970	Titanium	7440-32-6	1,030		0.0711	1.00	1
10146	Zirconium	7440-67-7	1.04	J	0.460	5.00	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.131	J	0.0741	0.200	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.28		0.0801	0.400	2
06126	Barium	7440-39-3	113		0.106	0.400	2
06127	Beryllium	7440-41-7	0.610		0.0160	0.100	2
06128	Cadmium	7440-43-9	0.128		0.0440	0.100	2
06131	Chromium	7440-47-3	20.7		0.120	0.400	2
06132	Cobalt	7440-48-4	7.32		0.0200	0.100	2
06133	Copper	7440-50-8	9.30		0.0801	0.400	2
06135	Lead	7439-92-1	6.44		0.0102	0.200	2
06138	Molybdenum	7439-98-7	0.613		0.0500	0.100	2
06139	Nickel	7440-02-0	14.2		0.100	0.400	2
06141	Selenium	7782-49-2	0.127	J	0.0581	0.400	2
06142	Silver	7440-22-4	0.0356	J	0.0142	0.100	2
06145	Thallium	7440-28-0	0.349		0.0300	0.100	2
06148	Vanadium	7440-62-2	42.5		0.0220	0.100	2
06149	Zinc	7440-66-6	89.8		0.561	3.00	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0070	U	0.0070	0.0998	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.83	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP008-SA7-QC-092611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP008-SA7-QC-092611

LLI Sample # SW 6419537
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:00

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP08 SDG#: DE255-05FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	30.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.37	J	0.20	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.75		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	3.0		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11279SLB026	10/13/2011 19:22	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11278SLI026	10/11/2011 15:56	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11278SLI026	10/06/2011 11:50	Kelli M Barto	1
00381	BNA Soil Sonication	SW-846 3550B	1	11279SLB026	10/06/2011 23:15	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112790014A	10/08/2011 10:22	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112790014A	10/06/2011 18:30	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	112725708003	10/05/2011 00:40	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112725708003	10/05/2011 00:40	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112725708003	10/05/2011 00:40	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112725708003	10/05/2011 00:40	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112725708003	10/05/2011 00:40	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112725708003	10/05/2011 00:40	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112725708003	10/05/2011 00:40	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112725708003	10/05/2011 00:40	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112725708003	10/05/2011 00:40	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112725708003	10/05/2011 00:40	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112725708003	10/05/2011 00:40	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112725708003	10/05/2011 00:40	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112725708003	10/05/2011 00:40	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP008-SA7-QC-092611 Soil
SSFL Area IV Collocated Soil Sampling
DUP008-SA7-QC-092611

LLI Sample # SW 6419537
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:00

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP08 SDG#: DE255-05FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	112725708003	10/05/2011 00:40	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112721026003A	09/30/2011 10:17	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112721026003A	09/30/2011 10:17	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112721026003D	09/30/2011 10:17	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112721026003A	09/30/2011 10:17	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112721026003A	09/30/2011 10:17	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112721026003A	09/30/2011 10:17	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112721026003A	09/30/2011 10:17	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112721026003A	09/30/2011 10:17	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112721026003A	09/30/2011 10:17	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112721026003C	09/30/2011 10:17	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112721026003A	09/30/2011 10:17	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112721026003B	09/30/2011 10:17	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112721026003A	09/30/2011 10:17	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112721026003A	09/30/2011 10:17	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112721026003A	09/30/2011 10:17	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112721026003A	09/30/2011 10:17	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112725711004	09/30/2011 08:30	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708003	09/29/2011 22:37	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026003	09/29/2011 22:39	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711004	09/30/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11276621202B	10/05/2011 04:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621202A	10/06/2011 04:37	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11279243202A	10/08/2011 15:39	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11276621202B	10/03/2011 08:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621202A	10/04/2011 08:25	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11283039402A	10/10/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11279243202A	10/06/2011 11:30	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401C	09/30/2011 23:10	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: TB-092611 Water
SSFL Area IV Collocated Soil Sampling
TB-092611

LLI Sample # WW 6419538
LLI Group # 1268382
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:30

Submitted: 09/27/2011 09:00
Reported: 10/25/2011 09:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB926 SDG#: DE255-06TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11277B20A	10/05/2011 14:00	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11277B20A	10/05/2011 14:00	Marie D John	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268382
Reported: 10/25/11 at 09:09 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11274SLE026	Sample number(s): 6419534-6419536									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	96		70-130		
Batch number: 11278SLI026	Sample number(s): 6419528-6419530,6419534-6419537									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	96		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	91		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	97		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	97		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	98		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	104		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	99		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	106		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	107		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	110		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	99		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	102		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	101		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	105		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	114		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	104		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	104		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	100		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	89		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	89		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	88		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	81		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	111		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	96		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	98		72-119		
Batch number: 11279SLB026	Sample number(s): 6419528-6419530,6419534-6419537									
Acenaphthene	17	U	17.	170	ug/kg	100		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	110		75-122		
Aniline	170 U		170.	500	ug/kg	65		20-115		
Anthracene	17	U	17.	170	ug/kg	109		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	39		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	108		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	110		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	116		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	108		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	107		67-125		
Benzoic acid	170 U		170.	500	ug/kg	101		62-113		
Benzyl alcohol	170		170.	500	ug/kg	97		68-111		

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268382
Reported: 10/25/11 at 09:09 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	106		73-114		
2-butoxy-Ethanol	1,700	U	1,700.	1,700	ug/kg					
Butylbenzylphthalate	17	U	17.	170	ug/kg	104		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	109		79-112		
Carbazole	17	U	17.	170	ug/kg	104		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	106		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	43		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	98		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	94		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	93		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	92		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	100		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	103		74-115		
Chrysene	17	U	17.	170	ug/kg	98		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	110		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	100		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	89		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	87		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	87		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	37		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	105		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	107		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	100		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	112		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	105		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	82		46-120		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	67		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	106		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	110		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	102		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	109		75-117		
Fluoranthene	17	U	17.	170	ug/kg	112		78-116		
Fluorene	17	U	17.	170	ug/kg	108		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	104		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	95		65-117		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	100		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	87		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	110		64-119		
Isophorone	17	U	17.	170	ug/kg	100		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	96		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	99		69-109		
2-Methylphenol	33	U	33.	170	ug/kg	101		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	96		66-117		
Naphthalene	17	U	17.	170	ug/kg	95		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	109		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	100		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	80		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	97		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	100		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	86		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	94		63-107		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268382
Reported: 10/25/11 at 09:09 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	84		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	107		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	115		62-137		
Pentachlorophenol	170	U	170.	500	ug/kg	98		51-117		
Phenanthrene	17	U	17.	170	ug/kg	101		77-113		
Phenol	17	U	17.	170	ug/kg	97		58-112		
2-phenoxy-Ethanol	1,700	U	1,700.	1,700	ug/kg					
Pyrene	17	U	17.	170	ug/kg	103		75-115		
Tetralin	170	U	170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	95		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	107		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	109		78-111		
Batch number: 11265A34B	Sample number(s): 6419534-6419536									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	69	76	67-119	10	30
Batch number: 11277B20A	Sample number(s): 6419538									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	100	75-135	0	30
Batch number: 112670064A	Sample number(s): 6419534-6419536									
20a Formaldehyde 8315A	600	U	600.	1,500	ug/kg	98		80-126		
Batch number: 112790014A	Sample number(s): 6419528-6419530,6419532-6419537									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	76	69	36-106	10	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	88		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	96		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112730032A	Sample number(s): 6419534-6419536									
Ethanol	100	U	100.	500	ug/kg	99		71-129		
Isopropanol	100	U	100.	500	ug/kg	95		75-125		
Methanol	100	U	100.	500	ug/kg	98		68-129		
Batch number: 112770027A	Sample number(s): 6419534-6419536									
Diethylene glycol	5.0	U	5.0	10	mg/kg	95		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	97		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	86		67-131		
Batch number: 112780028A	Sample number(s): 6419534-6419536									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	93		70-123		
EFH (C15-C20)	2.0		0.40	1.2	mg/kg	96		75-128		
EFH (C21-C30)	7.3		0.40	1.2	mg/kg	89		64-134		
EFH (C30 - C40)	5.2		0.40	1.2	mg/kg	72		65-128		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268382
Reported: 10/25/11 at 09:09 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	87		49-107		
Batch number: 112780040A	Sample number(s): 6419534-6419536									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	88		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	90		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	89		69-109		
Batch number: 112721026003A	Sample number(s): 6419528-6419531,6419534-6419537									
Antimony	0.0740	U	0.0740	0.200	mg/kg	108		10-224		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	106		78-122		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	106		80-120		
Cadmium	0.0440	U	0.0440	0.100	mg/kg	111		81-119		
Chromium	0.120	U	0.120	0.400	mg/kg	113		77-123		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	104		80-119		
Copper	0.0800	U	0.0800	0.400	mg/kg	104		78-122		
Lead	0.0450	J	0.0102	0.200	mg/kg	106		77-123		
Nickel	0.100	U	0.100	0.400	mg/kg	114		80-120		
Silver	0.0142	U	0.0142	0.100	mg/kg	110		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	104		75-124		
Vanadium	0.0337	J	0.0220	0.100	mg/kg	114		76-124		
Zinc	0.560	U	0.560	3.00	mg/kg	109		79-121		
Batch number: 112721026003B	Sample number(s): 6419528-6419531,6419534-6419537									
Selenium	0.0580	U	0.0580	0.400	mg/kg	112		77-123		
Batch number: 112721026003C	Sample number(s): 6419528-6419531,6419534-6419537									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	113		76-123		
Batch number: 112721026003D	Sample number(s): 6419528-6419531,6419534-6419537									
Barium	0.106	U	0.106	0.400	mg/kg	110		80-120		
Batch number: 112725708003	Sample number(s): 6419528-6419531,6419534-6419537									
Aluminum	6.05	U	6.05	20.0	mg/kg	144		42-158		
Boron	0.360	U	0.360	5.00	mg/kg	113		66-134		
Calcium	6.97	J	2.50	20.0	mg/kg	108		79-121		
Iron	2.61	U	2.61	20.0	mg/kg	136		51-149		
Lithium	0.62	U	0.62	2.0	mg/kg	104		80-120		
Magnesium	0.440	U	0.440	10.0	mg/kg	123		64-136		
Manganese	0.0380	J	0.0360	0.500	mg/kg	103		78-122		
Phosphorus	1.31	J	0.350	10.0	mg/kg	106		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	116		69-131		
Sodium	5.95	U	5.95	100	mg/kg	114		71-129		
Strontium	0.0420	J	0.0250	0.500	mg/kg	107		81-119		
Tin	1.49	J	0.320	10.0	mg/kg	101		74-126		
Titanium	0.0710	U	0.0710	1.00	mg/kg	82		80-120		
Zirconium	0.460	U	0.460	5.00	mg/kg	106		80-120		
Batch number: 112725711004	Sample number(s): 6419528-6419531,6419534-6419537									
Mercury	0.0069	U	0.0069	0.0979	mg/kg	107		72-128		
Batch number: 11276621202B	Sample number(s): 6419528-6419529,6419531,6419534-6419537									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	94		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	97		90-110		
Batch number: 11277621202A	Sample number(s): 6419528-6419529,6419531,6419534-6419537									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	109		85-115		
Batch number: 11279243202A	Sample number(s): 6419528-6419529,6419531,6419534-6419537									

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268382
Reported: 10/25/11 at 09:09 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	86		80-120		
Batch number: 11283039401C	Sample number(s): 6419528,6419531,6419534-6419535									
17a pH by 9045C						100		95-105		
Batch number: 11283039402A	Sample number(s): 6419536-6419537									
17a pH by 9045C						100		95-105		
Batch number: 11273162401C	Sample number(s): 6419528-6419532,6419534-6419537									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11274SLE026	Sample number(s): 6419534-6419536 UNSPK: P419519								
N-Nitrosodimethylamine	87	90	70-130	3	30				
Batch number: 11278SLI026	Sample number(s): 6419528-6419530,6419534-6419537 UNSPK: 6419528								
Acenaphthene	88	67	63-105	28	30				
Acenaphthylene	83	66*	67-114	23	30				
Anthracene	89	72*	73-115	21	30				
Benzo(a)anthracene	80	86	59-128	6	30				
Benzo(a)pyrene	74	131	58-142	39*	30				
Benzo(b)fluoranthene	-22*	307*	54-163	113*	30				
Benzo(g,h,i)perylene	23*	54	33-141	37*	30				
Benzo(k)fluoranthene	119	135	57-153	12	30				
Butylbenzylphthalate	0*	0*	57-173	0	30				
Di-n-butylphthalate	0*	0*	65-148	0	30				
Chrysene	-6*	177*	67-123	89*	30				
Dibenz(a,h)anthracene	43	47	22-133	5	30				
Diethylphthalate	0*	0*	70-136	0	30				
Dimethylphthalate	0*	0*	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	0*	406*	39-167	200*	30				
Fluoranthene	98	98	51-149	0	30				
Fluorene	90	72	66-122	23	30				
Indeno(1,2,3-cd)pyrene	74	74	21-143	0	30				
1-Methylnaphthalene	81	66*	72-123	21	30				
2-Methylnaphthalene	82	67	64-103	20	30				
Naphthalene	82	66	61-102	22	30				
N-Nitrosodimethylamine	77	65	48-113	17	30				
Di-n-octylphthalate	192	216*	40-192	12	30				
Phenanthrene	87	75	62-122	14	30				
Pyrene	63	120	51-131	47*	30				
Batch number: 11279SLB026	Sample number(s): 6419528-6419530,6419534-6419537 UNSPK: 6419528								
Acenaphthene	100	77	75-115	25	30				
Acenaphthylene	111*	84	81-110	27	30				
Aniline	49	0*	18-116	200*	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268382
Reported: 10/25/11 at 09:09 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Anthracene	106	80	75-115	28	30				
Benzidine	14*	0*	35-141	200*	30				
Benzo(a)anthracene	114	87	65-122	27	30				
Benzo(a)pyrene	108	76	57-126	34*	30				
Benzo(b)fluoranthene	114	81	59-125	32*	30				
Benzo(g,h,i)perylene	110	76	59-127	35*	30				
Benzo(k)fluoranthene	97	69	56-132	33*	30				
Benzoic acid	0*	28	10-173	200*	30				
Benzyl alcohol	97	76	67-115	24	30				
4-Bromophenyl-phenylether	110	82	67-129	29	30				
Butylbenzylphthalate	110	85	73-134	25	30				
Di-n-butylphthalate	107	83	67-123	24	30				
Carbazole	98	75	64-120	25	30				
4-Chloro-3-methylphenol	100	74	62-122	30	30				
4-Chloroaniline	49	33	13-107	38*	30				
bis(2-Chloroethoxy)methane	99	78	75-104	23	30				
bis(2-Chloroethyl)ether	95	78	60-116	19	30				
bis(2-Chloroisopropyl)ether	0*	74	55-142	200*	30				
2-Chloronaphthalene	95	59	50-141	46*	30				
2-Chlorophenol	100	77	73-121	25	30				
4-Chlorophenyl-phenylether	101	78*	80-109	26	30				
Chrysene	99	77	62-128	24	30				
Dibenz(a,h)anthracene	117	81	65-125	35*	30				
Dibenzofuran	97	75	71-112	25	30				
1,2-Dichlorobenzene	94	73	66-108	25	30				
1,3-Dichlorobenzene	92	74	63-109	22	30				
1,4-Dichlorobenzene	92	73	58-108	23	30				
3,3'-Dichlorobenzidine	83	25*	28-109	108*	30				
2,4-Dichlorophenol	103	78	66-123	28	30				
Diethylphthalate	103	80	66-118	25	30				
2,4-Dimethylphenol	98	78	68-118	23	30				
3,5-Dimethylphenol	110	0*	71-127	200*	30				
Dimethylphthalate	104	81	64-118	25	30				
4,6-Dinitro-2-methylphenol	22	22	11-126	1	30				
2,4-Dinitrophenol	0*	0*	20-143	0	30				
2,4-Dinitrotoluene	99	69	56-129	34*	30				
2,6-Dinitrotoluene	107	80	69-123	28	30				
1,2-Diphenylhydrazine	106	78	71-129	30	30				
bis(2-Ethylhexyl)phthalate	123*	95	63-122	25	30				
Fluoranthene	97	79	73-112	20	30				
Fluorene	104	79	63-121	26	30				
Hexachlorobenzene	108	77	77-114	33*	30				
Hexachlorobutadiene	101	80	62-120	23	30				
Hexachlorocyclopentadiene	47	27	10-153	52*	30				
Hexachloroethane	88	68	57-109	25	30				
Indeno(1,2,3-cd)pyrene	115	82	61-126	33*	30				
Isophorone	100	77	73-102	25	30				
1-Methylnaphthalene	96	74	64-122	26	30				
2-Methylnaphthalene	99	76	76-114	25	30				
2-Methylphenol	100	77	75-111	26	30				
4-Methylphenol	94	72	59-123	27	30				
Naphthalene	96	75	72-116	24	30				
2-Nitroaniline	111	85	67-125	26	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268382
Reported: 10/25/11 at 09:09 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
3-Nitroaniline	101	71	59-122	34*	30				
4-Nitroaniline	74	66	41-109	11	30				
Nitrobenzene	98	77	57-125	23	30				
2-Nitrophenol	98	78	56-127	21	30				
4-Nitrophenol	78	62	37-129	22	30				
N-Nitroso-di-n-propylamine	92	73	60-116	23	30				
N-Nitrosodimethylamine	77	61	47-116	22	30				
N-Nitrosodiphenylamine	111	81	71-122	30	30				
Di-n-octylphthalate	118	89	56-126	27	30				
Pentachlorophenol	82	62	28-127	27	30				
Phenanthrene	99	75	65-125	27	30				
Phenol	95	72	58-126	27	30				
Pyrene	101	77	74-126	27	30				
1,2,4-Trichlorobenzene	99	78	72-115	24	30				
2,4,5-Trichlorophenol	105	79	58-129	27	30				
2,4,6-Trichlorophenol	111	85	56-134	26	30				
Batch number: 11265A34B	Sample number(s): 6419534-6419536 UNSPK: P419519								
9a TPH by EPA 8015B Gas C5-C12	74	87	39-118	17	30				
Batch number: 112670064A	Sample number(s): 6419534-6419536 UNSPK: P419519								
20a Formaldehyde 8315A	105	96	80-120	9	50				
Batch number: 112790014A	Sample number(s): 6419528-6419530,6419532-6419537 UNSPK: 6419528								
PCB-1016	83	55	29-146	40	50				
PCB-1260	85	41	39-149	70*	50				
Batch number: 112730032A	Sample number(s): 6419534-6419536 UNSPK: P419519								
Ethanol	88	67	48-130	27*	20				
Isopropanol	84	64	12-149	28*	20				
Methanol	87	68	43-138	24*	20				
Batch number: 112770027A	Sample number(s): 6419534-6419536 UNSPK: P421299								
Diethylene glycol	12*	16*	59-109	28*	20				
Ethylene glycol	49*	55*	63-107	11	20				
Propylene glycol	55*	59*	63-107	7	20				
Batch number: 112780028A	Sample number(s): 6419534-6419536 UNSPK: 6419534								
EFH (C12-C14)	89	72	49-123	21*	20				
EFH (C15-C20)	90	76	49-123	14	20				
EFH (C21-C30)	80	78	49-123	1	20				
EFH (C30 - C40)	29*	42*	49-123	7	20				
EFH (C8-C11)	61	71	49-123	16	20				
Batch number: 112780040A	Sample number(s): 6419534-6419536 UNSPK: P419519								
m-Terphenyl	75	82	75-125	8	20				
o-Terphenyl	77	84	75-125	8	20				
p-Terphenyl	78	84	75-125	6	20				
Batch number: 112721026003A	Sample number(s): 6419528-6419531,6419534-6419537 UNSPK: 6419528 BKG: 6419528								
Antimony	63*	64*	75-125	0	20	0.167 J	0.0948 J	55* (1)	20
Arsenic	96	113	75-125	5	20	4.54	3.83	17	20
Beryllium	97	97	75-125	0	20	0.583	0.455	25* (1)	20

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268382
Reported: 10/25/11 at 09:09 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Cadmium	119	131*	75-125	9	20	0.121	0.106	14 (1)	20
Chromium	85	100	75-125	5	20	17.2	14.1	20	20
Cobalt	111	117	75-125	5	20	5.86	4.68	22*	20
Copper	98	111	75-125	7	20	7.95	6.14	26*	20
Lead	96	111	75-125	6	20	5.13	4.06	23*	20
Nickel	101	117	75-125	7	20	11.6	9.57	19	20
Silver	117	124	75-125	6	20	0.0196 J	0.0159 J	21* (1)	20
Thallium	101	115	75-125	7	20	0.311	0.272	14 (1)	20
Vanadium	64*	84	75-125	5	20	35.6	29.1	20	20
Zinc	21 (2)	44 (2)	75-125	3	20	72.4	56.8	24*	20
Batch number: 112721026003B	Sample number(s): 6419528-6419531,6419534-6419537 UNSPK: 6419528 BKG: 6419528								
Selenium	115	120	75-125	4	20	0.168 J	0.112 J	40* (1)	20
Batch number: 112721026003C	Sample number(s): 6419528-6419531,6419534-6419537 UNSPK: 6419528 BKG: 6419528								
Molybdenum	117	125	75-125	6	20	0.421	0.383	10 (1)	20
Batch number: 112721026003D	Sample number(s): 6419528-6419531,6419534-6419537 UNSPK: 6419528 BKG: 6419528								
Barium	-43 (2)	14 (2)	75-125	6	20	101	76.9	27*	20
Batch number: 112725708003	Sample number(s): 6419528-6419531,6419534-6419537 UNSPK: 6419528 BKG: 6419528								
Aluminum	1398 (2)	1258 (2)	75-125	1	20	11,300	11,800	4	20
Boron	99	99	84-115	3	20	5.11	5.14	1 (1)	20
Calcium	332 (2)	222 (2)	75-125	9	20	3,370	3,250	3	20
Iron	820 (2)	766 (2)	75-125	0	20	18,100	18,500	2	20
Lithium	103	102	82-114	2	20	24.7	25.6	4	20
Magnesium	318 (2)	206 (2)	75-125	4	20	4,270	4,410	3	20
Manganese	118 (2)	120 (2)	75-125	1	20	271	262	3	20
Phosphorus	112	99	75-125	2	20	319	341	7	20
Potassium	124	112	75-125	2	20	2,670	2,810	5	20
Sodium	100	100	75-125	3	20	64.2 J	66.0 J	3 (1)	20
Strontium	102	99	75-115	0	20	11.3	11.1	1	20
Tin	90	91	80-110	4	20	2.36 J	2.45 J	4 (1)	20
Titanium	289 (2)	264 (2)	75-125	1	20	1,020	1,080	6	20
Zirconium	101	101	75-125	3	20	1.20 J	1.88 J	44* (1)	20
Batch number: 112725711004	Sample number(s): 6419528-6419531,6419534-6419537 UNSPK: 6419528 BKG: 6419528								
Mercury	106	105	65-135	4	20	0.0066 U	0.0068 U	0 (1)	20
Batch number: 11276621202B	Sample number(s): 6419528-6419529,6419531,6419534-6419537 UNSPK: 6419528 BKG: 6419528								
11a Anions by 300.0 - Fluoride	78*		80-120			1.5	1.9	22* (1)	20
11a Anions by 300.0 - Nitrate	102		80-120			0.80 U	0.85 J	200* (1)	20
Batch number: 11277621202A	Sample number(s): 6419528-6419529,6419531,6419534-6419537 UNSPK: 6419528 BKG: 6419528								
7a Perchlorate EPA 314.0	108		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11279243202A	Sample number(s): 6419528-6419529,6419531,6419534-6419537 UNSPK: 6419528 BKG: 6419528								
3a Cr VI by EPA 7199	96		75-125			0.20 U	0.20 U	0 (1)	20

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268382
Reported: 10/25/11 at 09:09 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11283039401C	Sample number(s): 6419528,6419531,6419534-6419535					BKG: 6419528			
17a pH by 9045C						7.64	7.67	0	3
Batch number: 11283039402A	Sample number(s): 6419536-6419537					BKG: 6419536			
17a pH by 9045C						7.81	7.83	0	3
Batch number: 11273162401C	Sample number(s): 6419528-6419532,6419534-6419537					BKG: 6419528			
28a Moisture Content by 160.3						2.0	2.2	6 (1)	20
Moisture Content by 160.3						2.0	2.2	6 (1)	20
Moisture Content by 160.3						2.0	2.2	6 (1)	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 21a NDMA by 1625C
Batch number: 11274SLE026

	N-Nitrosodimethylamine-d6
6419534	134
6419535	128
6419536	120
Blank	120
LCS	121
MS	113
MSD	113
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11278SLI026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6419528	84	78	80
6419529	97	86	89
6419530	76	63	79
6419534	94	83	92
6419535	98	88	98
6419536	84	59	99
6419537	93	84	96
Blank	94	87	92
LCS	107	90	93
MS	97	86	89
MSD	76	63	79
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268382
Reported: 10/25/11 at 09:09 AM

Surrogate Quality Control

Batch number: 11279SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6419528	93	98	95	93	100	90
6419529	93	96	101	93	100	93
6419530	72	77	79	73	79	71
6419534	88	92	94	88	96	91
6419535	83	87	98	85	93	90
6419536	88	93	99	91	99	93
6419537	89	94	93	90	99	91
Blank	97	101	114	94	101	102
LCS	95	97	107	92	97	94
MS	93	96	101	93	100	93
MSD	72	77	79	73	79	71
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11265A34B

	Trifluorotoluene-F
6419534	102
6419535	92
6419536	86
Blank	106
LCS	87
LCSD	96
MS	93
MSD	90
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11277B20A

	Trifluorotoluene-F
6419538	87
Blank	83
LCS	111
LCSD	111
Limits:	63-135

Analysis Name: 20a Formaldehyde 8315A
Batch number: 112670064A

	Butyraldehyde
6419534	89
6419535	80
6419536	79
Blank	105
LCS	101
MS	99
MSD	98
Limits:	64-126

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268382
Reported: 10/25/11 at 09:09 AM

Surrogate Quality Control

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112790014A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6419528	72	58
6419529	90	92
6419530	66	0*
6419532	90	64
6419533	94	74
6419534	76	72
6419535	92	77
6419536	72	71
6419537	92	84
Blank	96	108
LCS	94	105
LCSD	93	104
MS	89	92
MSD	65	36*
Limits:	53-139	45-120

Analysis Name: 18a Alcohols by 8015B
Batch number: 112730032A

	Acetone
6419534	97
6419535	96
6419536	85
Blank	98
LCS	99
MS	87
MSD	64
Limits:	42-138

Analysis Name: 19a Glycols by 8015B
Batch number: 112770027A

	Tetramethylene glycol
6419534	79
6419535	78
6419536	79
Blank	90
LCS	91
MS	79
MSD	79
Limits:	29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112780028A

	Chlorobenzene	Orthoterphenyl
6419534	52	55
6419535	45	52
6419536	55	59
Blank	52	58

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268382
Reported: 10/25/11 at 09:09 AM

Surrogate Quality Control

LCS	56	60
MS	56	60
MSD	50	54
Limits:	37-125	47-145

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112780040A

	n-Triacontane-d62
6419534	69
6419535	75
6419536	66
Blank	63
LCS	63
MS	63
MSD	60
Limits:	19-152

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1268382 6419528-38

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subares 6 (SA6) & Subares 7 (SA7) also report Tetralin under EPA Method 8270C.

Sampler Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A (PRIMARY FOR ALL LOCATIONS)	*Fluoride EPA 300.0 (PRIMARY FOR ALL LOCATIONS)	*SVOCs EPA 8270C & PAHs 8270 SIM (PRIMARY FOR ALL LOCATIONS)	*PCBs/PCTs EPA 8082 (PRIMARY FOR ALL LOCATIONS)	*Dioxin/Furan EPA 1613B (PRIMARY FOR ALL LOCATIONS)	*Perchlorate EPA 314.0 (PRIMARY FOR ALL LOCATIONS)	*Hex Chrome EPA 7199 (PRIMARY FOR ALL LOCATIONS)	*pH EPA 9045C/9040B (PRIMARY FOR ALL LOCATIONS)	Perchlorate Confirmation by EPA 6850 (10%) (PRIMARY FOR ALL LOCATIONS)	*Pesticides EPA 8081A (surface soil only) (SS ONLY)	*Herbicides EPA 8151 (surface soil only) (SS ONLY)	VOCs/EPA 8260B $ (SECONDARY FOR ALL LOCATIONS)	1,4-Dioxane EPA 8260SIM $ (SECONDARY FOR ALL LOCATIONS)	TPH-GRO EPA 8015B $ (SECONDARY FOR ALL LOCATIONS)	**TPH-EPH EPA 8015B Mod. (SECONDARY FOR ALL LOCATIONS)	**Nitrates EPA 300.0 (SECONDARY FOR ALL LOCATIONS)	**Formaldehyde EPA 8315A (SECONDARY FOR ALL LOCATIONS)	**n-NDMA EPA 1625C (SECONDARY FOR ALL LOCATIONS)	**Energetics EPA 8330A (SECONDARY FOR ALL LOCATIONS)	**Cyanide EPA 9012B (SECONDARY FOR ALL LOCATIONS)	**Terphenyls EPA 8015B (SECONDARY FOR ALL LOCATIONS)	**Glycols EPA 8015B (SECONDARY FOR ALL LOCATIONS)	**Alcohols EPA 8015B (SECONDARY FOR ALL LOCATIONS)	**Dioxonal EPA 8270 (SECONDARY FOR ALL LOCATIONS)	Other Instructions and Notes
SL-102-SA7-SB-4.5MS	9/26/11	0905	SOIL	NONE	8-Encores														X										2 Extra Encores collected
SL-102-SA7-SB-4.0-5.0MS	9/26/11	0910	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X							X	X	X	X			X	X	X	X	MS/MSD Sample
SL-102-SA7-SB-9.5	9/26/11	0933	SOIL	NONE	2-Encores														X										MS/MSD Sample
SL-102-SA7-SB-9.0-10.0	9/26/11	0930	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X							X	X	X	X			X	X	X	X	
SL-109-SA7-SB-4.5	9/26/11	1210	SOIL	NONE	2-Encores														X										
SL-109-SA7-SB-4.0-5.0	9/26/11	1213	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X							X	X	X	X			X	X	X	X	
SL-109-SA7-SB-9.5	9/26/11	1218	SOIL	NONE	2-Encores														X										
SL-109-SA7-SB-9.0-10.0	9/26/11	1220	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X							X	X	X	X			X	X	X	X	
SL-125-SA7-SB-4.0-5.0MS	9/26/11	1452	SOIL	NONE	6-16 oz Jars	X	X	X	X	X	X	X	X																	MS/MSD Sample
SL-170-SA7-SB-4.5	9/26/11	1110	SOIL	NONE	2-Encores														X										
SL-170-SA7-SB-4.0-5.0	9/26/11	1115	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X							X	X	X	X			X	X	X	X	
SL-170-SA7-SB-9.5	9/26/11	1123	SOIL	NONE	2-Encores														X										
SL-170-SA7-SB-9.0-10.0	9/26/11	1130	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X							X	X	X	X			X	X	X	X	
DUP007-SA7-QC-092611	9/26/11	0923	SOIL	NONE	6-Encores																									
DUP007-SA7-QC-092611	9/26/11	0923	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X							X	X	X	X			X	X	X	X	
DUP008-SA7-QC-092611	9/26/11	1500	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X																	
TB-092611	9/26/11	1430	WATER	NONE	2-40mL vials														X										

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Other Instructions and Notes
	09/19/2011 / 1600	9/27/11 0900	Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No(s)	
		8767 9858 3428; 8767 9858 3439 8767 9858 3440	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 14, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/27/2011
Group Number: 1268383
SDG: DX143
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-032-SA5DS-SS-0.0-0.5 Soil	6419539
DUP01-SA5DS-QC-092611 Soil	6419540
SL-102-SA7-SB-4.0-5.0 Soil	6419541
SL-102-SA7-SB-4.0-5.0 MS Soil	6419542
SL-102-SA7-SB-4.0-5.0 MSD Soil	6419543
SL-102-SA7-SB-9.0-10.0 Soil	6419544
SL-109-SA7-SB-4.0-5.0 Soil	6419545
SL-109-SA7-SB-9.0-10.0 Soil	6419546

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-032-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419539
LLI Group # 1268383
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 12:10

Submitted: 09/27/2011 09:00
Reported: 10/14/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD032 SDG#: DX143-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-032-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419539
LLI Group # 1268383
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 12:10

Submitted: 09/27/2011 09:00
Reported: 10/14/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD032 SDG#: DX143-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0372	U	0.0372	1.02	1
11031	12378-PeCDD	40321-76-4	0.0740	JQ	0.0316	5.09	1
11031	123478-HxCDD	39227-28-6	0.0950	JQ	0.0364	5.09	1
11031	123678-HxCDD	57653-85-7	0.125	JBQ	0.0369	5.09	1
11031	123789-HxCDD	19408-74-3	0.122	JBQ	0.0356	5.09	1
11031	1234678-HpCDD	35822-46-9	2.95	JB	0.0390	5.09	1
11031	OCDD	3268-87-9	26.9	B	0.0376	10.2	1
11031	2378-TCDF	51207-31-9	0.197	J	0.0561	1.02	1
11031	12378-PeCDF	57117-41-6	0.325	JB	0.0302	5.09	1
11031	23478-PeCDF	57117-31-4	0.0971	JB	0.0313	5.09	1
11031	123478-HxCDF	70648-26-9	0.326	JB	0.0277	5.09	1
11031	123678-HxCDF	57117-44-9	0.0945	JBQ	0.0247	5.09	1
11031	123789-HxCDF	72918-21-9	0.0596	JBQ	0.0283	5.09	1
11031	234678-HxCDF	60851-34-5	0.117	JB	0.0256	5.09	1
11031	1234678-HpCDF	67562-39-4	0.611	JB	0.0162	5.09	1
11031	1234789-HpCDF	55673-89-7	0.0771	JBQ	0.0276	5.09	1
11031	OCDF	39001-02-0	1.27	JB	0.0488	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	52	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-032-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419539
LLI Group # 1268383
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 12:10

Submitted: 09/27/2011 09:00
Reported: 10/14/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD032 SDG#: DX143-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-032-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-032-SA5DS-SS-0.0-0.5

LLI Sample # SW 6419539
LLI Group # 1268383
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 12:10

Submitted: 09/27/2011 09:00
Reported: 10/14/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD032 SDG#: DX143-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11279002	10/08/2011 23:57	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11279002	10/06/2011 10:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401B	09/30/2011 23:10	Scott W Freisher	1

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Analysis Report

Sample Description: **DUP01-SA5DS-QC-092611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA5DS-QC-092611

LLI Sample # SW 6419540
LLI Group # 1268383
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:10

Submitted: 09/27/2011 09:00
Reported: 10/14/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP01 SDG#: DX143-02FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	0.73	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP01-SA5DS-QC-092611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA5DS-QC-092611

LLI Sample # SW 6419540
LLI Group # 1268383
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:10

Submitted: 09/27/2011 09:00
Reported: 10/14/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP01 SDG#: DX143-02FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0349	U	0.0349	0.989	1
11031	12378-PeCDD	40321-76-4	0.159	J	0.0383	4.94	1
11031	123478-HxCDD	39227-28-6	0.295	J	0.0457	4.94	1
11031	123678-HxCDD	57653-85-7	0.765	JB	0.0426	4.94	1
11031	123789-HxCDD	19408-74-3	0.668	JB	0.0454	4.94	1
11031	1234678-HpCDD	35822-46-9	15.1	B	0.0567	4.94	1
11031	OCDD	3268-87-9	230	B	0.0865	9.89	1
11031	2378-TCDF	51207-31-9	0.602	J	0.0808	0.989	1
11031	12378-PeCDF	57117-41-6	0.644	JB	0.0549	4.94	1
11031	23478-PeCDF	57117-31-4	1.15	JB	0.0558	4.94	1
11031	123478-HxCDF	70648-26-9	0.466	JB	0.0395	4.94	1
11031	123678-HxCDF	57117-44-9	0.347	JB	0.0360	4.94	1
11031	123789-HxCDF	72918-21-9	0.117	JB	0.0456	4.94	1
11031	234678-HxCDF	60851-34-5	0.328	JB	0.0388	4.94	1
11031	1234678-HpCDF	67562-39-4	2.43	JB	0.0255	4.94	1
11031	1234789-HpCDF	55673-89-7	0.233	JB	0.0426	4.94	1
11031	OCDF	39001-02-0	5.39	JB	0.0562	9.89	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	63	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	60	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	47	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **DUP01-SA5DS-QC-092611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA5DS-QC-092611

LLI Sample # SW 6419540
LLI Group # 1268383
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:10

Submitted: 09/27/2011 09:00
Reported: 10/14/2011 14:06

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

DDP01 SDG#: DX143-02FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **DUP01-SA5DS-QC-092611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA5DS-QC-092611

LLI Sample # SW 6419540
LLI Group # 1268383
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:10

Submitted: 09/27/2011 09:00
Reported: 10/14/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP01 SDG#: DX143-02FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11279002	10/09/2011 00:53	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11279002	10/06/2011 10:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401B	09/30/2011 23:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-102-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419541
LLI Group # 1268383
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/14/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1024 SDG#: DX143-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-102-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419541
LLI Group # 1268383
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/14/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1024 SDG#: DX143-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0311	U	0.0311	1.03	1
11031	12378-PeCDD	40321-76-4	0.0236	U	0.0236	5.14	1
11031	123478-HxCDD	39227-28-6	0.0266	U	0.0266	5.14	1
11031	123678-HxCDD	57653-85-7	0.0891	JBQ	0.0260	5.14	1
11031	123789-HxCDD	19408-74-3	0.142	JBQ	0.0260	5.14	1
11031	1234678-HpCDD	35822-46-9	0.550	JB	0.0323	5.14	1
11031	OCDD	3268-87-9	5.11	JB	0.0252	10.3	1
11031	2378-TCDF	51207-31-9	0.0238	U	0.0238	1.03	1
11031	12378-PeCDF	57117-41-6	0.0142	U	0.0142	5.14	1
11031	23478-PeCDF	57117-31-4	0.0395	JB	0.0149	5.14	1
11031	123478-HxCDF	70648-26-9	0.0345	JBQ	0.0200	5.14	1
11031	123678-HxCDF	57117-44-9	0.0504	JBQ	0.0172	5.14	1
11031	123789-HxCDF	72918-21-9	0.0948	JBQ	0.0180	5.14	1
11031	234678-HxCDF	60851-34-5	0.0273	JB	0.0159	5.14	1
11031	1234678-HpCDF	67562-39-4	0.172	JBQ	0.0155	5.14	1
11031	1234789-HpCDF	55673-89-7	0.0585	JBQ	0.0266	5.14	1
11031	OCDF	39001-02-0	0.267	JB	0.0485	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	58	21 - 178
13C12-123478-HxCDF	51	26 - 152
13C12-123678-HxCDF	57	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	51	26 - 138
13C12-OCDF	44	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-102-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419541
LLI Group # 1268383
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/14/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1024 SDG#: DX143-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-102-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419541
LLI Group # 1268383
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/14/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1024 SDG#: DX143-03BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11279002	10/09/2011 01:50	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11279002	10/06/2011 10:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	2	11279162401A	10/06/2011 22:58	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-102-SA7-SB-4.0-5.0 MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419542
LLI Group # 1268383
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/14/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1024 SDG#: DX143-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-102-SA7-SB-4.0-5.0 MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419542
LLI Group # 1268383
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/14/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1024 SDG#: DX143-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.1		0.0738	1.05	1
11031	12378-PeCDD	40321-76-4	106		0.0642	5.24	1
11031	123478-HxCDD	39227-28-6	105		0.0618	5.24	1
11031	123678-HxCDD	57653-85-7	104	B	0.0613	5.24	1
11031	123789-HxCDD	19408-74-3	101	B	0.0561	5.24	1
11031	1234678-HpCDD	35822-46-9	102	B	0.0780	5.24	1
11031	OCDD	3268-87-9	205	B	0.0878	10.5	1
11031	2378-TCDF	51207-31-9	20.4		0.0704	1.05	1
11031	12378-PeCDF	57117-41-6	104	B	0.0397	5.24	1
11031	23478-PeCDF	57117-31-4	100	B	0.0395	5.24	1
11031	123478-HxCDF	70648-26-9	101	B	0.0934	5.24	1
11031	123678-HxCDF	57117-44-9	101	B	0.0780	5.24	1
11031	123789-HxCDF	72918-21-9	101	B	0.103	5.24	1
11031	234678-HxCDF	60851-34-5	103	B	0.0871	5.24	1
11031	1234678-HpCDF	67562-39-4	96.8	B	0.0563	5.24	1
11031	1234789-HpCDF	55673-89-7	104	B	0.108	5.24	1
11031	OCDF	39001-02-0	205	B	0.154	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	48	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-102-SA7-SB-4.0-5.0 MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419542
LLI Group # 1268383
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/14/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1024 SDG#: DX143-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-102-SA7-SB-4.0-5.0 MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419542
LLI Group # 1268383
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/14/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1024 SDG#: DX143-03MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11279002	10/09/2011 02:46	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11279002	10/06/2011 10:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	2	11279162401A	10/06/2011 22:58	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-102-SA7-SB-4.0-5.0 MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419543
LLI Group # 1268383
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/14/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1024 SDG#: DX143-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-102-SA7-SB-4.0-5.0 MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419543
LLI Group # 1268383
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/14/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1024 SDG#: DX143-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	20.8		0.0610	1.03	1
11031	12378-PeCDD	40321-76-4	103		0.0627	5.14	1
11031	123478-HxCDD	39227-28-6	102		0.0555	5.14	1
11031	123678-HxCDD	57653-85-7	100	B	0.0522	5.14	1
11031	123789-HxCDD	19408-74-3	100	B	0.0484	5.14	1
11031	1234678-HpCDD	35822-46-9	102	B	0.0701	5.14	1
11031	OCDD	3268-87-9	200	B	0.0884	10.3	1
11031	2378-TCDF	51207-31-9	19.6		0.0547	1.03	1
11031	12378-PeCDF	57117-41-6	101	B	0.0388	5.14	1
11031	23478-PeCDF	57117-31-4	98.6	B	0.0372	5.14	1
11031	123478-HxCDF	70648-26-9	98.7	B	0.0706	5.14	1
11031	123678-HxCDF	57117-44-9	98.3	B	0.0642	5.14	1
11031	123789-HxCDF	72918-21-9	98.3	B	0.0799	5.14	1
11031	234678-HxCDF	60851-34-5	98.5	B	0.0671	5.14	1
11031	1234678-HpCDF	67562-39-4	96.0	B	0.0549	5.14	1
11031	1234789-HpCDF	55673-89-7	98.4	B	0.0930	5.14	1
11031	OCDF	39001-02-0	195	B	0.118	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	65	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	50	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-102-SA7-SB-4.0-5.0 MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419543
LLI Group # 1268383
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/14/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1024 SDG#: DX143-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-102-SA7-SB-4.0-5.0 MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-4.0-5.0

LLI Sample # SW 6419543
LLI Group # 1268383
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:10

Submitted: 09/27/2011 09:00
Reported: 10/14/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1024 SDG#: DX143-03MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11279002	10/09/2011 03:43	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11279002	10/06/2011 10:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	2	11279162401A	10/06/2011 22:58	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-102-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-9.0-10.0

LLI Sample # SW 6419544
LLI Group # 1268383
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:30

Submitted: 09/27/2011 09:00
Reported: 10/14/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1029 SDG#: DX143-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-102-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-9.0-10.0

LLI Sample # SW 6419544
LLI Group # 1268383
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:30

Submitted: 09/27/2011 09:00
Reported: 10/14/2011 14:06

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

D1029 SDG#: DX143-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0454	U	0.0454	1.12	1
11031	12378-PeCDD	40321-76-4	0.0561	JQ	0.0378	5.62	1
11031	123478-HxCDD	39227-28-6	0.0399	U	0.0399	5.62	1
11031	123678-HxCDD	57653-85-7	0.230	JBQ	0.0401	5.62	1
11031	123789-HxCDD	19408-74-3	0.310	JBQ	0.0393	5.62	1
11031	1234678-HpCDD	35822-46-9	1.88	JB	0.0510	5.62	1
11031	OCDD	3268-87-9	25.2	B	0.0465	11.2	1
11031	2378-TCDF	51207-31-9	0.0642	JQ	0.0444	1.12	1
11031	12378-PeCDF	57117-41-6	0.103	JBQ	0.0202	5.62	1
11031	23478-PeCDF	57117-31-4	0.0644	JBQ	0.0216	5.62	1
11031	123478-HxCDF	70648-26-9	0.0805	JBQ	0.0362	5.62	1
11031	123678-HxCDF	57117-44-9	0.0628	JBQ	0.0296	5.62	1
11031	123789-HxCDF	72918-21-9	0.529	JB	0.0346	5.62	1
11031	234678-HxCDF	60851-34-5	0.0869	JB	0.0288	5.62	1
11031	1234678-HpCDF	67562-39-4	0.287	JB	0.0194	5.62	1
11031	1234789-HpCDF	55673-89-7	0.0559	JBQ	0.0369	5.62	1
11031	OCDF	39001-02-0	0.805	JB	0.0869	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	42	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-102-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-9.0-10.0

LLI Sample # SW 6419544
LLI Group # 1268383
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:30

Submitted: 09/27/2011 09:00
Reported: 10/14/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1029 SDG#: DX143-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-102-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-102-SA7-SB-9.0-10.0

LLI Sample # SW 6419544
LLI Group # 1268383
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:30

Submitted: 09/27/2011 09:00
Reported: 10/14/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1029 SDG#: DX143-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11279002	10/09/2011 04:39	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11279002	10/06/2011 10:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403A	10/05/2011 20:16	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-109-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA7-SB-4.0-5.0

LLI Sample # SW 6419545
LLI Group # 1268383
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 12:13

Submitted: 09/27/2011 09:00
Reported: 10/14/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1094 SDG#: DX143-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-109-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA7-SB-4.0-5.0

LLI Sample # SW 6419545
LLI Group # 1268383
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 12:13

Submitted: 09/27/2011 09:00
Reported: 10/14/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1094 SDG#: DX143-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0344	U	0.0344	1.03	1
11031	12378-PeCDD	40321-76-4	0.0304	U	0.0304	5.17	1
11031	123478-HxCDD	39227-28-6	0.0329	JQ	0.0287	5.17	1
11031	123678-HxCDD	57653-85-7	0.0871	JB	0.0274	5.17	1
11031	123789-HxCDD	19408-74-3	0.116	JBQ	0.0256	5.17	1
11031	1234678-HpCDD	35822-46-9	0.473	JBQ	0.0343	5.17	1
11031	OCDD	3268-87-9	5.61	JB	0.0343	10.3	1
11031	2378-TCDF	51207-31-9	0.0325	U	0.0325	1.03	1
11031	12378-PeCDF	57117-41-6	0.0286	JBQ	0.0158	5.17	1
11031	23478-PeCDF	57117-31-4	0.0895	JBQ	0.0160	5.17	1
11031	123478-HxCDF	70648-26-9	0.0437	JBQ	0.0206	5.17	1
11031	123678-HxCDF	57117-44-9	0.0340	JBQ	0.0171	5.17	1
11031	123789-HxCDF	72918-21-9	0.0231	JBQ	0.0217	5.17	1
11031	234678-HxCDF	60851-34-5	0.0459	JB	0.0188	5.17	1
11031	1234678-HpCDF	67562-39-4	0.198	JB	0.0125	5.17	1
11031	1234789-HpCDF	55673-89-7	0.0247	U	0.0247	5.17	1
11031	OCDF	39001-02-0	0.247	JB	0.0516	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	47	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-109-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA7-SB-4.0-5.0

LLI Sample # SW 6419545
LLI Group # 1268383
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 12:13

Submitted: 09/27/2011 09:00
Reported: 10/14/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1094 SDG#: DX143-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-109-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA7-SB-4.0-5.0

LLI Sample # SW 6419545
LLI Group # 1268383
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 12:13

Submitted: 09/27/2011 09:00
Reported: 10/14/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1094 SDG#: DX143-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11279002	10/09/2011 05:36	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11279002	10/06/2011 10:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403A	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-109-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA7-SB-9.0-10.0

LLI Sample # SW 6419546
LLI Group # 1268383
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 12:20

Submitted: 09/27/2011 09:00
Reported: 10/14/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1099 SDG#: DX143-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-109-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA7-SB-9.0-10.0

LLI Sample # SW 6419546
LLI Group # 1268383
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 12:20

Submitted: 09/27/2011 09:00
Reported: 10/14/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1099 SDG#: DX143-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0993	JQ	0.0420	1.08	1
11031	12378-PeCDD	40321-76-4	0.265	JQ	0.0402	5.41	1
11031	123478-HxCDD	39227-28-6	0.0923	J	0.0369	5.41	1
11031	123678-HxCDD	57653-85-7	0.173	JBQ	0.0371	5.41	1
11031	123789-HxCDD	19408-74-3	0.393	JB	0.0349	5.41	1
11031	1234678-HpCDD	35822-46-9	1.13	JB	0.0451	5.41	1
11031	OCDD	3268-87-9	10.1	JB	0.0497	10.8	1
11031	2378-TCDF	51207-31-9	0.0681	JQ	0.0383	1.08	1
11031	12378-PeCDF	57117-41-6	0.279	JB	0.0205	5.41	1
11031	23478-PeCDF	57117-31-4	0.231	JB	0.0207	5.41	1
11031	123478-HxCDF	70648-26-9	0.177	JBQ	0.0384	5.41	1
11031	123678-HxCDF	57117-44-9	0.134	JBQ	0.0292	5.41	1
11031	123789-HxCDF	72918-21-9	0.339	JB	0.0318	5.41	1
11031	234678-HxCDF	60851-34-5	0.135	JBQ	0.0258	5.41	1
11031	1234678-HpCDF	67562-39-4	0.195	JBQ	0.0184	5.41	1
11031	1234789-HpCDF	55673-89-7	0.0530	JBQ	0.0325	5.41	1
11031	OCDF	39001-02-0	0.305	JB	0.0766	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	48	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-109-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA7-SB-9.0-10.0

LLI Sample # SW 6419546
LLI Group # 1268383
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 12:20

Submitted: 09/27/2011 09:00
Reported: 10/14/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1099 SDG#: DX143-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-109-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-109-SA7-SB-9.0-10.0

LLI Sample # SW 6419546
LLI Group # 1268383
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 12:20

Submitted: 09/27/2011 09:00
Reported: 10/14/2011 14:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1099 SDG#: DX143-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11279002	10/09/2011 06:32	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11279002	10/06/2011 10:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403A	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268383
Reported: 10/14/11 at 02:06 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11273162401B	Sample number(s): 6419539-6419540								
Moisture Content by 160.3					100		80-120		
Batch number: 11278162403A	Sample number(s): 6419544-6419546								
Moisture Content by 160.3					100		80-120		
Batch number: 11279162401A	Sample number(s): 6419541-6419543								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11279002	Sample number(s): 6419539-6419546								
2378-TCDD	0.0376 U	0.0376	1.00	ng/kg	102		67-158		
12378-PeCDD	0.0335 U	0.0335	5.00	ng/kg	101		70-142		
123478-HxCDD	0.0246 U	0.0246	5.00	ng/kg	101		70-164		
123678-HxCDD	0.0361 J	0.0260	5.00	ng/kg	98		76-134		
123789-HxCDD	0.0277 J	0.0253	5.00	ng/kg	102		64-162		
1234678-HpCDD	0.197 J	0.0315	5.00	ng/kg	97		70-140		
OCDD	0.280 J	0.0357	10.0	ng/kg	99		78-144		
2378-TCDF	0.0307 U	0.0307	1.00	ng/kg	105		75-158		
12378-PeCDF	0.0199 J	0.0170	5.00	ng/kg	100		80-134		
23478-PeCDF	0.0351 J	0.0174	5.00	ng/kg	97		68-160		
123478-HxCDF	0.0470 J	0.0216	5.00	ng/kg	99		72-134		
123678-HxCDF	0.0229 J	0.0182	5.00	ng/kg	97		84-130		
123789-HxCDF	0.0335 J	0.0235	5.00	ng/kg	97		78-130		
234678-HxCDF	0.0501 J	0.0188	5.00	ng/kg	98		70-156		
1234678-HpCDF	0.123 J	0.0114	5.00	ng/kg	95		82-122		
1234789-HpCDF	0.0342 J	0.0217	5.00	ng/kg	97		78-138		
OCDF	0.108 J	0.0712	10.0	ng/kg	98		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11273162401B	Sample number(s): 6419539-6419540					BKG: P419491			
Moisture Content by 160.3						0.67	0.62	7 (1)	20
Batch number: 11278162403A	Sample number(s): 6419544-6419546					BKG: P419519			

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268383
Reported: 10/14/11 at 02:06 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Moisture Content by 160.3						5.9	5.0	16	20
Batch number: 11279162401A	Sample number(s): 6419541-6419543 BKG: P419519								
Moisture Content by 160.3						4.6	4.9	5	20
Batch number: 11279002	Sample number(s): 6419539-6419546 UNSPK: 6419541								
2378-TCDD	106	101	67-158	6	25				
12378-PeCDD	101	100	70-142	3	25				
123478-HxCDD	101	99	70-164	3	25				
123678-HxCDD	99	98	76-134	3	25				
123789-HxCDD	97	97	64-162	1	25				
1234678-HpCDD	97	99	70-140	0	25				
OCDD	95	95	78-144	3	25				
2378-TCDF	97	96	75-158	4	25				
12378-PeCDF	99	98	80-134	3	25				
23478-PeCDF	95	96	68-160	1	25				
123478-HxCDF	96	96	72-134	2	25				
123678-HxCDF	96	96	84-130	2	25				
123789-HxCDF	97	96	78-130	3	25				
234678-HxCDF	98	96	70-156	5	25				
1234678-HpCDF	92	93	82-122	1	25				
1234789-HpCDF	99	96	78-138	5	25				
OCDF	97	95	63-170	5	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11279002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6419539	76	64	65	72	68	72
6419540	71	59	62	68	60	62
6419541	68	58	51	57	64	65
6419542	66	61	63	73	66	63
6419543	64	61	65	72	67	67
6419544	69	59	52	62	61	62
6419545	66	59	61	73	65	67
6419546	78	66	52	66	72	69
Blank	74	64	65	76	71	68
MS	66	61	63	73	66	63
MSD	64	61	65	72	67	67
OPR	62	57	58	69	64	59
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268383
Reported: 10/14/11 at 02:06 PM

Surrogate Quality Control

6419539	82	59	52	68	77	79
6419540	73	53	47	64	69	73
6419541	71	51	44	64	72	78
6419542	87	54	48	66	76	79
6419543	81	57	50	65	77	81
6419544	76	50	42	66	73	77
6419545	89	55	47	66	77	82
6419546	80	57	48	74	86	88
Blank	89	57	47	73	85	87
MS	87	54	48	66	76	79
MSD	81	57	50	65	77	81
OPR	87	54	47	67	79	79
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6419539	77	76	67	71	73
6419540	63	71	63	72	65
6419541	77	74	64	64	66
6419542	82	77	69	63	68
6419543	83	75	67	61	65
6419544	78	70	63	61	66
6419545	85	78	68	60	67
6419546	90	82	73	71	76
Blank	85	83	70	65	72
MS	82	77	69	63	68
MSD	83	75	67	61	65
OPR	78	80	71	55	63
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1268383 6419539-46

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures: Vidal Cruz

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	Other Instructions and Notes
SL-001-SA3-SS-0.0-0.5	9/26/11	0750	SOIL	NONE	1-SS Sleeve			X	X									
SL-001-SA3-SS-0.0-0.5	9/26/11	0750	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-002-SA3-SS-0.0-0.5	9/26/11	0815	SOIL	NONE	1-SS Sleeve			X	X									
SL-002-SA3-SS-0.0-0.5	9/26/11	0815	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-002-SA5DS-SS-0.0-0.5	9/26/11	1435	SOIL	NONE	1-SS Sleeve			X	X									
SL-002-SA5DS-SS-0.0-0.5	9/26/11	1435	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-021-SA6DS-SS-0.0-0.5MS	9/26/11	1505	SOIL	NONE	2-SS Sleeves			X	X									MS/MSD sample
SL-021-SA6DS-SS-0.0-0.5MS	9/26/11	1505	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X		MS/MSD sample
SL-026-SA5DS-SS-0.0-0.5	9/26/11	1035	SOIL	NONE	2-Encores												X	
SL-026-SA5DS-SS-0.0-0.5	9/26/11	1035	SOIL	NONE	1-SS Sleeve			X	X									
SL-026-SA5DS-SS-0.0-0.5	9/26/11	1035	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-027-SA5DS-SS-0.0-0.5	9/26/11	0925	SOIL	NONE	1-SS Sleeve			X	X									
SL-027-SA5DS-SS-0.0-0.5	9/26/11	0925	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-028-SA5DS-SS-0.0-0.5	9/26/11	1050	SOIL	NONE	1-SS Sleeve			X	X									
SL-028-SA5DS-SS-0.0-0.5	9/26/11	1050	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-029-SA5DS-SS-0.0-0.5	9/26/11	1110	SOIL	NONE	1-SS Sleeve			X	X									
SL-029-SA5DS-SS-0.0-0.5	9/26/11	1110	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-030-SA5DS-SS-0.0-0.5	9/26/11	1125	SOIL	NONE	1-SS Sleeve			X	X									
SL-030-SA5DS-SS-0.0-0.5	9/26/11	1125	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-031-SA5DS-SS-0.0-0.5	9/26/11	1150	SOIL	NONE	1-SS Sleeve			X	X									
SL-031-SA5DS-SS-0.0-0.5	9/26/11	1150	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
SL-032-SA5DS-SS-0.0-0.5	9/26/11	1210	SOIL	NONE	1-SS Sleeve			X	X									
SL-032-SA5DS-SS-0.0-0.5	9/26/11	1210	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		
DUP01-SA5DS-QC-092811	9/26/11	1510	SOIL	NONE	1-SS Sleeve			X	X									
DUP01-SA5DS-QC-092811	9/26/11	1510	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X		

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
Vidal Cruz	09/26/2011 / 1630	Mary H/L LLI 9/27/11 0900	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No(s)**	
		8767 9858 3428; 8767 9858 3439 8767 9858 3440	

13013 1268383 6419539-46

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Sampler Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020A/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260B/M $	TPH-DRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Perchlorate EPA 6850	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dioxonol EPA 8270	Other Instructions and Notes
SL-102-SA7-SB-4.5MS	9/26/11	0905	SOIL	NONE	8-Encores														X											2 Extra Encores collected
SL-102-SA7-SB-4.0-5.0MS	9/26/11	0910	SOIL	NONE	8-16 oz Jars	X	X	X	X	X	X	X	X							X	X	X	X			X	X	X	X	MS/MSD Sample
SL-102-SA7-SB-9.5	9/26/11	0933	SOIL	NONE	2-Encores														X											MS/MSD Sample
SL-102-SA7-SB-9.0-10.0	9/26/11	0939	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X							X	X	X	X			X	X	X	X	
SL-109-SA7-SB-4.5	9/26/11	1210	SOIL	NONE	2-Encores														X											
SL-109-SA7-SB-4.0-5.0	9/26/11	1213	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X							X	X	X	X			X	X	X	X	
SL-109-SA7-SB-9.5	9/26/11	1218	SOIL	NONE	2-Encores														X											
SL-109-SA7-SB-9.0-10.0	9/26/11	1220	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X							X	X	X	X			X	X	X	X	
SL-126-SA7-SB-4.0-5.0MS	9/26/11	1452	SOIL	NONE	8-16 oz jars	X	X	X	X	X	X	X	X																	MS/MSD Sample
SL-170-SA7-SB-4.5	9/26/11	1110	SOIL	NONE	2-Encores														X											
SL-170-SA7-SB-4.0-5.0	9/26/11	1115	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X							X	X	X	X			X	X	X	X	
SL-170-SA7-SB-9.5	9/26/11	1123	SOIL	NONE	2-Encores														X											
SL-170-SA7-SB-9.0-10.0	9/26/11	1130	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X							X	X	X	X			X	X	X	X	
DUP007-SA7-QC-092611	9/26/11	0923	SOIL	NONE	8-Encores														X											
DUP007-SA7-QC-092611	9/26/11	0923	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X							X	X	X	X			X	X	X	X	
DUP008-SA7-QC-092611	9/26/11	1500	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X																	
TB-092611-1	9/26/11	1430	WATER	NONE	2-40mL vials														X											

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	09/19/2011 / 1600	9/27/11 0900	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No(s)	
		8767 9858 3428; 8767 9858 3439 8767 9858 3440	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 18, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/27/2011
Group Number: 1268388
SDG: DX144
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-125-SA7-SB-4.0-5.0 Soil	6419586
SL-125-SA7-SB-4.0-5.0 MS Soil	6419587
SL-125-SA7-SB-4.0-5.0 MSD Soil	6419588
SL-170-SA7-SB-4.0-5.0 Soil	6419589
SL-170-SA7-SB-9.0-10.0 Soil	6419590
DUP007-SA7-QC-092611 Soil	6419591
DUP008-SA7-QC-092611 Soil	6419592

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-125-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SB-4.0-5.0

LLI Sample # SW 6419586
LLI Group # 1268388
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:52

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 00:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD125 SDG#: DX144-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-125-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SB-4.0-5.0

LLI Sample # SW 6419586
LLI Group # 1268388
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:52

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 00:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD125 SDG#: DX144-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0534	U	0.0534	0.995	1
11031	12378-PeCDD	40321-76-4	0.288	J	0.0465	4.97	1
11031	123478-HxCDD	39227-28-6	0.0361	U	0.0361	4.97	1
11031	123678-HxCDD	57653-85-7	0.0963	JBQ	0.0367	4.97	1
11031	123789-HxCDD	19408-74-3	0.0831	JQ	0.0345	4.97	1
11031	1234678-HpCDD	35822-46-9	1.27	JB	0.0543	4.97	1
11031	OCDD	3268-87-9	11.5	B	0.0461	9.95	1
11031	2378-TCDF	51207-31-9	0.0402	U	0.0402	0.995	1
11031	12378-PeCDF	57117-41-6	0.0250	U	0.0250	4.97	1
11031	23478-PeCDF	57117-31-4	0.0805	JBQ	0.0247	4.97	1
11031	123478-HxCDF	70648-26-9	0.0385	JBQ	0.0280	4.97	1
11031	123678-HxCDF	57117-44-9	0.0371	JBQ	0.0236	4.97	1
11031	123789-HxCDF	72918-21-9	0.0347	J	0.0287	4.97	1
11031	234678-HxCDF	60851-34-5	0.0294	JQ	0.0247	4.97	1
11031	1234678-HpCDF	67562-39-4	0.225	JBQ	0.0171	4.97	1
11031	1234789-HpCDF	55673-89-7	0.0398	JBQ	0.0290	4.97	1
11031	OCDF	39001-02-0	0.358	JBQ	0.0828	9.95	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	53	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-125-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SB-4.0-5.0

LLI Sample # SW 6419586
LLI Group # 1268388
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:52

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 00:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD125 SDG#: DX144-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-125-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SB-4.0-5.0

LLI Sample # SW 6419586
LLI Group # 1268388
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:52

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 00:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD125 SDG#: DX144-01BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280001	10/10/2011 16:08	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280001	10/07/2011 09:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401C	09/30/2011 23:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-125-SA7-SB-4.0-5.0 MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SB-4.0-5.0

LLI Sample # SW 6419587
LLI Group # 1268388
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:52

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 00:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD125 SDG#: DX144-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-125-SA7-SB-4.0-5.0 MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SB-4.0-5.0

LLI Sample # SW 6419587
LLI Group # 1268388
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:52

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 00:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD125 SDG#: DX144-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	19.6		0.0790	1.01	1
11031	12378-PeCDD	40321-76-4	105		0.0710	5.03	1
11031	123478-HxCDD	39227-28-6	99.8		0.0840	5.03	1
11031	123678-HxCDD	57653-85-7	98.3	B	0.0828	5.03	1
11031	123789-HxCDD	19408-74-3	101		0.0790	5.03	1
11031	1234678-HpCDD	35822-46-9	98.4	B	0.107	5.03	1
11031	OCDD	3268-87-9	201	B	0.105	10.1	1
11031	2378-TCDF	51207-31-9	19.2		0.0689	1.01	1
11031	12378-PeCDF	57117-41-6	98.3	B	0.0504	5.03	1
11031	23478-PeCDF	57117-31-4	98.7	B	0.0508	5.03	1
11031	123478-HxCDF	70648-26-9	97.3	B	0.0938	5.03	1
11031	123678-HxCDF	57117-44-9	97.3	B	0.0809	5.03	1
11031	123789-HxCDF	72918-21-9	96.6		0.0933	5.03	1
11031	234678-HxCDF	60851-34-5	98.4		0.0848	5.03	1
11031	1234678-HpCDF	67562-39-4	96.1	B	0.0842	5.03	1
11031	1234789-HpCDF	55673-89-7	99.4	B	0.126	5.03	1
11031	OCDF	39001-02-0	194	B	0.133	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	62	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-125-SA7-SB-4.0-5.0 MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SB-4.0-5.0

LLI Sample # SW 6419587
LLI Group # 1268388
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:52

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 00:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD125 SDG#: DX144-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-125-SA7-SB-4.0-5.0 MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SB-4.0-5.0

LLI Sample # SW 6419587
LLI Group # 1268388
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:52

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 00:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD125 SDG#: DX144-01MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280001	10/10/2011 17:08	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280001	10/07/2011 09:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401C	09/30/2011 23:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-125-SA7-SB-4.0-5.0 MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SB-4.0-5.0

LLI Sample # SW 6419588
LLI Group # 1268388
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:52

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 00:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD125 SDG#: DX144-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-125-SA7-SB-4.0-5.0 MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SB-4.0-5.0

LLI Sample # SW 6419588
LLI Group # 1268388
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:52

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 00:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD125 SDG#: DX144-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	20.4		0.0653	1.02	1
11031	12378-PeCDD	40321-76-4	103		0.0722	5.09	1
11031	123478-HxCDD	39227-28-6	104		0.0981	5.09	1
11031	123678-HxCDD	57653-85-7	99.3	B	0.0916	5.09	1
11031	123789-HxCDD	19408-74-3	101		0.0905	5.09	1
11031	1234678-HpCDD	35822-46-9	100	B	0.104	5.09	1
11031	OCDD	3268-87-9	218	B	0.133	10.2	1
11031	2378-TCDF	51207-31-9	19.5		0.0719	1.02	1
11031	12378-PeCDF	57117-41-6	101	B	0.0487	5.09	1
11031	23478-PeCDF	57117-31-4	99.5	B	0.0476	5.09	1
11031	123478-HxCDF	70648-26-9	98.6	B	0.116	5.09	1
11031	123678-HxCDF	57117-44-9	99.4	B	0.100	5.09	1
11031	123789-HxCDF	72918-21-9	99.8		0.116	5.09	1
11031	234678-HxCDF	60851-34-5	101		0.104	5.09	1
11031	1234678-HpCDF	67562-39-4	96.0	B	0.0650	5.09	1
11031	1234789-HpCDF	55673-89-7	99.6	B	0.114	5.09	1
11031	OCDF	39001-02-0	200	B	0.139	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	54	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-125-SA7-SB-4.0-5.0 MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SB-4.0-5.0

LLI Sample # SW 6419588
LLI Group # 1268388
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:52

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Reported: 10/18/2011 00:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD125 SDG#: DX144-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-125-SA7-SB-4.0-5.0 MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-125-SA7-SB-4.0-5.0

LLI Sample # SW 6419588
LLI Group # 1268388
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 14:52

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 00:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD125 SDG#: DX144-01MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280001	10/10/2011 18:02	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280001	10/07/2011 09:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401C	09/30/2011 23:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-170-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-170-SA7-SB-4.0-5.0

LLI Sample # SW 6419589
LLI Group # 1268388
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:15

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 00:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1704 SDG#: DX144-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-170-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-170-SA7-SB-4.0-5.0

LLI Sample # SW 6419589
LLI Group # 1268388
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:15

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 00:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1704 SDG#: DX144-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0499	U	0.0499	1.02	1
11031	12378-PeCDD	40321-76-4	0.0403	U	0.0403	5.10	1
11031	123478-HxCDD	39227-28-6	0.0340	JQ	0.0335	5.10	1
11031	123678-HxCDD	57653-85-7	0.186	JBQ	0.0331	5.10	1
11031	123789-HxCDD	19408-74-3	0.227	JQ	0.0347	5.10	1
11031	1234678-HpCDD	35822-46-9	0.405	JB	0.0442	5.10	1
11031	OCDD	3268-87-9	2.85	JB	0.0302	10.2	1
11031	2378-TCDF	51207-31-9	0.0424	U	0.0424	1.02	1
11031	12378-PeCDF	57117-41-6	0.0408	JBQ	0.0255	5.10	1
11031	23478-PeCDF	57117-31-4	0.0906	JBQ	0.0228	5.10	1
11031	123478-HxCDF	70648-26-9	0.0356	JBQ	0.0243	5.10	1
11031	123678-HxCDF	57117-44-9	0.0849	JB	0.0231	5.10	1
11031	123789-HxCDF	72918-21-9	0.0618	JQ	0.0273	5.10	1
11031	234678-HxCDF	60851-34-5	0.0463	JQ	0.0242	5.10	1
11031	1234678-HpCDF	67562-39-4	0.193	JBQ	0.0152	5.10	1
11031	1234789-HpCDF	55673-89-7	0.0553	JBQ	0.0241	5.10	1
11031	OCDF	39001-02-0	0.234	JBQ	0.0585	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	62	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-170-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-170-SA7-SB-4.0-5.0

LLI Sample # SW 6419589
LLI Group # 1268388
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:15

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 00:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1704 SDG#: DX144-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-170-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-170-SA7-SB-4.0-5.0

LLI Sample # SW 6419589
LLI Group # 1268388
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:15

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 00:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1704 SDG#: DX144-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280001	10/10/2011 18:59	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280001	10/07/2011 09:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401C	09/30/2011 23:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-170-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-170-SA7-SB-9.0-10.0

LLI Sample # SW 6419590
LLI Group # 1268388
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:30

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 00:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1709 SDG#: DX144-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-170-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-170-SA7-SB-9.0-10.0

LLI Sample # SW 6419590
LLI Group # 1268388
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:30

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 00:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1709 SDG#: DX144-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0555	U	0.0555	1.03	1
11031	12378-PeCDD	40321-76-4	0.0438	J	0.0386	5.14	1
11031	123478-HxCDD	39227-28-6	0.0361	U	0.0361	5.14	1
11031	123678-HxCDD	57653-85-7	0.184	JBQ	0.0361	5.14	1
11031	123789-HxCDD	19408-74-3	0.265	J	0.0358	5.14	1
11031	1234678-HpCDD	35822-46-9	0.417	JBQ	0.0483	5.14	1
11031	OCDD	3268-87-9	2.89	JB	0.0317	10.3	1
11031	2378-TCDF	51207-31-9	0.0553	JQ	0.0475	1.03	1
11031	12378-PeCDF	57117-41-6	0.0400	JB	0.0245	5.14	1
11031	23478-PeCDF	57117-31-4	0.0703	JBQ	0.0238	5.14	1
11031	123478-HxCDF	70648-26-9	0.0551	JBQ	0.0256	5.14	1
11031	123678-HxCDF	57117-44-9	0.109	JB	0.0231	5.14	1
11031	123789-HxCDF	72918-21-9	0.0285	U	0.0285	5.14	1
11031	234678-HxCDF	60851-34-5	0.0323	JQ	0.0235	5.14	1
11031	1234678-HpCDF	67562-39-4	0.152	JB	0.0154	5.14	1
11031	1234789-HpCDF	55673-89-7	0.0248	U	0.0248	5.14	1
11031	OCDF	39001-02-0	0.219	JB	0.0682	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	61	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-170-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-170-SA7-SB-9.0-10.0

LLI Sample # SW 6419590
LLI Group # 1268388
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:30

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 00:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1709 SDG#: DX144-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-170-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-170-SA7-SB-9.0-10.0

LLI Sample # SW 6419590
LLI Group # 1268388
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 11:30

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 00:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1709 SDG#: DX144-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280001	10/10/2011 19:55	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280001	10/07/2011 09:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401C	09/30/2011 23:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP007-SA7-QC-092611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP007-SA7-QC-092611

LLI Sample # SW 6419591
LLI Group # 1268388
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:23

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 00:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP07 SDG#: DX144-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP007-SA7-QC-092611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP007-SA7-QC-092611

LLI Sample # SW 6419591
LLI Group # 1268388
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:23

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 00:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP07 SDG#: DX144-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0575	U	0.0575	1.04	1
11031	12378-PeCDD	40321-76-4	0.0429	U	0.0429	5.20	1
11031	123478-HxCDD	39227-28-6	0.0308	U	0.0308	5.20	1
11031	123678-HxCDD	57653-85-7	0.0783	JBQ	0.0302	5.20	1
11031	123789-HxCDD	19408-74-3	0.0292	U	0.0292	5.20	1
11031	1234678-HpCDD	35822-46-9	0.292	JB	0.0445	5.20	1
11031	OCDD	3268-87-9	2.39	JB	0.0367	10.4	1
11031	2378-TCDF	51207-31-9	0.0505	U	0.0505	1.04	1
11031	12378-PeCDF	57117-41-6	0.0278	U	0.0278	5.20	1
11031	23478-PeCDF	57117-31-4	0.0479	JBQ	0.0252	5.20	1
11031	123478-HxCDF	70648-26-9	0.0710	JBQ	0.0226	5.20	1
11031	123678-HxCDF	57117-44-9	0.0606	JBQ	0.0199	5.20	1
11031	123789-HxCDF	72918-21-9	0.0562	JQ	0.0252	5.20	1
11031	234678-HxCDF	60851-34-5	0.0346	J	0.0212	5.20	1
11031	1234678-HpCDF	67562-39-4	0.122	JB	0.0156	5.20	1
11031	1234789-HpCDF	55673-89-7	0.0283	JBQ	0.0247	5.20	1
11031	OCDF	39001-02-0	0.196	JBQ	0.0703	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	61	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **DUP007-SA7-QC-092611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP007-SA7-QC-092611

LLI Sample # SW 6419591
LLI Group # 1268388
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:23

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 00:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP07 SDG#: DX144-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP007-SA7-QC-092611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP007-SA7-QC-092611

LLI Sample # SW 6419591
LLI Group # 1268388
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 09:23

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 00:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP07 SDG#: DX144-04FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280001	10/10/2011 20:52	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280001	10/07/2011 09:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401C	09/30/2011 23:10	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP008-SA7-QC-092611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP008-SA7-QC-092611

LLI Sample # SW 6419592
LLI Group # 1268388
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:00

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 00:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP08 SDG#: DX144-05FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP008-SA7-QC-092611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP008-SA7-QC-092611

LLI Sample # SW 6419592
LLI Group # 1268388
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:00

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 00:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP08 SDG#: DX144-05FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0575	U	0.0575	1.01	1
11031	12378-PeCDD	40321-76-4	0.0411	U	0.0411	5.06	1
11031	123478-HxCDD	39227-28-6	0.0705	J	0.0361	5.06	1
11031	123678-HxCDD	57653-85-7	0.0829	JB	0.0342	5.06	1
11031	123789-HxCDD	19408-74-3	0.132	J	0.0363	5.06	1
11031	1234678-HpCDD	35822-46-9	2.58	JB	0.0554	5.06	1
11031	OCDD	3268-87-9	22.4	B	0.0443	10.1	1
11031	2378-TCDF	51207-31-9	0.0399	U	0.0399	1.01	1
11031	12378-PeCDF	57117-41-6	0.0487	JBQ	0.0235	5.06	1
11031	23478-PeCDF	57117-31-4	0.129	JBQ	0.0225	5.06	1
11031	123478-HxCDF	70648-26-9	0.279	JBQ	0.0300	5.06	1
11031	123678-HxCDF	57117-44-9	0.0878	JB	0.0284	5.06	1
11031	123789-HxCDF	72918-21-9	0.0855	JQ	0.0337	5.06	1
11031	234678-HxCDF	60851-34-5	0.0411	JQ	0.0295	5.06	1
11031	1234678-HpCDF	67562-39-4	0.569	JB	0.0203	5.06	1
11031	1234789-HpCDF	55673-89-7	0.0301	U	0.0301	5.06	1
11031	OCDF	39001-02-0	1.19	JB	0.0642	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	66	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **DUP008-SA7-QC-092611 Soil**
SSFL Area IV Collocated Soil Sampling
DUP008-SA7-QC-092611

LLI Sample # SW 6419592
LLI Group # 1268388
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:00

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 00:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP08 SDG#: DX144-05FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

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SSFL Area IV Collocated Soil Sampling
DUP008-SA7-QC-092611

LLI Sample # SW 6419592
LLI Group # 1268388
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/26/2011 15:00

Submitted: 09/27/2011 09:00
Reported: 10/18/2011 00:34

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP08 SDG#: DX144-05FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280001	10/10/2011 21:49	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280001	10/07/2011 09:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11273162401C	09/30/2011 23:10	Scott W Freisher	1

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268388
Reported: 10/18/11 at 12:34 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11273162401C	Sample number(s): 6419586-6419592								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11280001	Sample number(s): 6419586-6419592								
2378-TCDD	0.0692 U	0.0692	1.00	ng/kg	102		67-158		
12378-PeCDD	0.0515 U	0.0515	5.00	ng/kg	100		70-142		
123478-HxCDD	0.0373 U	0.0373	5.00	ng/kg	99		70-164		
123678-HxCDD	0.0400 J	0.0396	5.00	ng/kg	95		76-134		
123789-HxCDD	0.0363 U	0.0363	5.00	ng/kg	99		64-162		
1234678-HpCDD	0.0871 J	0.0566	5.00	ng/kg	96		70-140		
OCDD	0.371 J	0.0328	10.0	ng/kg	94		78-144		
2378-TCDF	0.0575 U	0.0575	1.00	ng/kg	96		75-158		
12378-PeCDF	0.0255 J	0.0253	5.00	ng/kg	98		80-134		
23478-PeCDF	0.0542 J	0.0240	5.00	ng/kg	96		68-160		
123478-HxCDF	0.0339 J	0.0255	5.00	ng/kg	96		72-134		
123678-HxCDF	0.0407 J	0.0222	5.00	ng/kg	95		84-130		
123789-HxCDF	0.0286 U	0.0286	5.00	ng/kg	97		78-130		
234678-HxCDF	0.0232 U	0.0232	5.00	ng/kg	96		70-156		
1234678-HpCDF	0.114 J	0.0150	5.00	ng/kg	94		82-122		
1234789-HpCDF	0.0877 J	0.0268	5.00	ng/kg	98		78-138		
OCDF	0.0977 J	0.0930	10.0	ng/kg	97		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11273162401C	Sample number(s): 6419586-6419592					BKG: P419528			
Moisture Content by 160.3						2.0	2.2	6 (1)	20
Batch number: 11280001	Sample number(s): 6419586-6419592					UNSPK: 6419586			
2378-TCDD	98	100	67-158	4	25				
12378-PeCDD	104	101	70-142	2	25				
123478-HxCDD	99	102	70-164	4	25				
123678-HxCDD	98	98	76-134	1	25				
123789-HxCDD	100	100	64-162	1	25				
1234678-HpCDD	97	97	70-140	2	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268388
Reported: 10/18/11 at 12:34 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
OCDD	94	101	78-144	8	25				
2378-TCDF	96	96	75-158	1	25				
12378-PeCDF	98	99	80-134	2	25				
23478-PeCDF	98	98	68-160	1	25				
123478-HxCDF	97	97	72-134	1	25				
123678-HxCDF	97	98	84-130	2	25				
123789-HxCDF	96	98	78-130	3	25				
234678-HxCDF	98	99	70-156	3	25				
1234678-HpCDF	95	94	82-122	0	25				
1234789-HpCDF	99	98	78-138	0	25				
OCDF	96	98	63-170	3	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11280001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6419586	70	65	64	72	68	68
6419587	74	67	65	70	69	71
6419588	70	64	66	73	69	73
6419589	64	62	65	71	68	72
6419590	65	65	65	71	69	69
6419591	65	64	64	71	68	67
6419592	63	64	67	71	69	71
Blank	71	67	70	79	73	71
MS	74	67	65	70	69	71
MSD	70	64	66	73	69	73
OPR	53	53	57	63	60	62
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6419586	81	59	53	70	78	80
6419587	78	63	62	71	76	81
6419588	84	61	54	71	79	86
6419589	84	65	62	66	75	82
6419590	83	63	61	70	78	84
6419591	83	63	61	68	77	85
6419592	81	66	66	68	75	86
Blank	92	65	60	73	85	85
MS	78	63	62	71	76	81
MSD	84	61	54	71	79	86
OPR	71	51	45	57	67	69
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268388
Reported: 10/18/11 at 12:34 AM

Surrogate Quality Control

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6419586	78	76	71	65	70
6419587	79	78	77	70	73
6419588	81	78	72	65	71
6419589	78	80	79	61	64
6419590	81	79	77	62	68
6419591	81	79	78	61	67
6419592	80	81	80	61	66
Blank	85	81	78	64	72
MS	79	78	77	70	73
MSD	81	78	72	65	71
OPR	66	64	58	50	56
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1268388 6419586-92

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Perchlorate EPA 6010B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dioxonal EPA 8270	Other Instructions and Notes
SL-102-SA7-SB-4.5MS	9/26/11	0905	SOIL	NONE	8-Encores														X											2 Extra Encores collected
SL-102-SA7-SB-4.0-5.0MS	9/26/11	0910	SOIL	NONE	9-16 oz Jars	X	X	X	X	X	X	X	X							X	X	X	X			X	X	X	X	MS/MSD Sample
SL-102-SA7-SB-9.5	9/26/11	0933	SOIL	NONE	2-Encores														X											MS/MSD Sample
SL-102-SA7-SB-9.0-10.0	9/26/11	0930	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X							X	X	X	X			X	X	X	X	
SL-109-SA7-SB-4.5	9/26/11	1210	SOIL	NONE	2-Encores														X											
SL-109-SA7-SB-4.0-5.0	9/26/11	1213	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X							X	X	X	X			X	X	X	X	
SL-109-SA7-SB-9.5	9/26/11	1218	SOIL	NONE	2-Encores														X											
SL-109-SA7-SB-9.0-10.0	9/26/11	1220	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X							X	X	X	X			X	X	X	X	
SL-125-SA7-SB-4.0-5.0MS	9/26/11	1452	SOIL	NONE	6-16 oz Jars	X	X	X	X	X	X	X	X																	MS/MSD Sample
SL-170-SA7-SB-4.5	9/26/11	1110	SOIL	NONE	2-Encores														X											
SL-170-SA7-SB-4.0-5.0	9/26/11	1115	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X							X	X	X	X			X	X	X	X	
SL-170-SA7-SB-9.5	9/26/11	1123	SOIL	NONE	2-Encores														X											
SL-170-SA7-SB-9.0-10.0	9/26/11	1130	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X							X	X	X	X			X	X	X	X	
DUP007-SA7-SC-092611	9/26/11	0923	SOIL	NONE	8-Encores					X	X	X	X						X											
DUP007-SA7-QC-092611	9/26/11	0923	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X							X	X	X	X			X	X	X	X	
DUP008-SA7-QC-092611	9/26/11	1500	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X																	
TB-092611	9/26/11	1420	WATER	NONE	2-40mL vials														X											

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	09/19/2011 / 1600	9/22/11 0900	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No(s)	
		8767 9858 3428; 8767 9858 3439 8767 9858 3440	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 26, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/28/2011
Group Number: 1268676
SDG: DE256
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-004-SA5DS-SS-0.0-0.5 Soil	6421288
SL-005-SA5DS-SS-0.0-0.5 Soil	6421289
SL-006-SA5DS-SS-0.0-0.5 Soil	6421290
SL-019-SA5DS-SS-0.0-0.5 Soil	6421291
SL-020-SA5DS-SS-0.0-0.5 Soil	6421292
SL-021-SA5DS-SS-0.0-0.5 Soil	6421293
SL-022-SA5DS-SS-0.0-0.5 Soil	6421294
SL-023-SA5DS-SS-0.0-0.5 Soil	6421295
SL-024-SA5DS-SS-0.0-0.5 Soil	6421296
SL-025-SA5DS-SS-0.0-0.5 Soil	6421297
SL-038-SA5DS-SS-0.0-0.5 Soil	6421298
SL-103-SA7-SB-4.0-5.0 Soil	6421299
SL-103-SA7-SB-4.0-5.0MS Soil	6421300
SL-103-SA7-SB-4.0-5.0MSD Soil	6421301
SL-103-SA7-SB-4.0-5.0DUP Soil	6421302
SL-103-SA7-SB-4.0-5.0RL MS Soil	6421303
SL-103-SA7-SB-4.0-5.0RL LCS Soil	6421304
SL-103-SA7-SB-9.0-10.0 Soil	6421305
SL-104-SA7-SB-4.0-5.0 Soil	6421306
SL-104-SA7-SB-9.0-10.0 Soil	6421307
SL-105-SA7-SB-4.0-5.0 Soil	6421308
SL-172-SA7-SB-4.0-5.0 Soil	6421309
SL-172-SA7-SB-9.0-10.0 Soil	6421310
DUP-09-SA7-QC-092711 Soil	6421311
TB-092711 Water	6421312
EB-SA7-SB-092711 Water	6421313

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Analysis Report

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Sarah M. Snyder
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-004-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421288
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 14:15

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5601 SDG#: DE256-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1

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E5601 SDG#: DE256-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.81	J	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	1.6	J	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	7.5		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	2.1		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	12	J	6.0	18		1
10138	Fluoranthene	206-44-0	2.9		0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.78	J	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	1.2	J	0.67	1.7		1
10138	Naphthalene	91-20-3	3.5		0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	2.0		0.67	1.7		1
10138	Pyrene	129-00-0	2.3		0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	3.3	U	3.3	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	6.4		0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	1.3	U	1.3	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.32	U	0.32	0.32		1
10401	2,4,5-TP	93-72-1	0.19		0.076	0.17		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	7.4		0.81	3.5		1

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Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35		1
01363	p,p-DDE	72-55-9	0.23	U	0.23	0.35		1
01363	p,p-DDT	50-29-3	0.86		0.067	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.075	U	0.075	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.50	U	0.50	0.50		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.16	U	0.16	0.35		1
01363	Toxaphene	8001-35-2	10		2.2	6.7		1

The sample was injected following maintenance and a new calibration.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

The TCX surrogate data associated with the blank is below the client specified limits of 50 -130%; however the recovery is within our in house statistical limits of 28-121%.

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance (48-137): Methoxychlor

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.2	J	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.51	J	0.34	1.7		1
10225	PCB-1260	11096-82-5	0.67	J	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	14,300		6.09	20.1		1
07914	Boron	7440-42-8	10.5		0.363	5.04		1
01650	Calcium	7440-70-2	3,540		2.52	20.1		1

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	26,100		2.63	20.1		1
01656	Lithium	7439-93-2	20.1		0.62	2.0		1
01657	Magnesium	7439-95-4	5,060		0.443	10.1		1
06958	Manganese	7439-96-5	289		0.0363	0.504		1
10145	Phosphorus	7723-14-0	715		0.353	10.1		1
01662	Potassium	7440-09-7	2,490		11.4	50.4		1
01667	Sodium	7440-23-5	93.6	J	5.99	101		1
07968	Strontium	7440-24-6	20.1		0.0252	0.504		1
06969	Tin	7440-31-5	1.04	J	0.322	10.1		1
06970	Titanium	7440-32-6	1,110		0.0715	1.01		1
10146	Zirconium	7440-67-7	5.39		0.463	5.04		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.105	J	0.0745	0.201		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.22		0.0806	0.403		2
06126	Barium	7440-39-3	54.3		0.107	0.403		2
06127	Beryllium	7440-41-7	0.416		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.160		0.0443	0.101		2
06131	Chromium	7440-47-3	34.4		0.121	0.403		2
06132	Cobalt	7440-48-4	5.83		0.0201	0.101		2
06133	Copper	7440-50-8	5.54		0.0806	0.403		2
06135	Lead	7439-92-1	15.0		0.0103	0.201		2
06138	Molybdenum	7439-98-7	0.414		0.0504	0.101		2
06139	Nickel	7440-02-0	9.66		0.101	0.403		2
06141	Selenium	7782-49-2	0.350	J	0.0584	0.403		2
06142	Silver	7440-22-4	0.0252	J	0.0143	0.101		2
06145	Thallium	7440-28-0	0.157		0.0302	0.101		2
06148	Vanadium	7440-62-2	58.4		0.0222	0.101		2
06149	Zinc	7440-66-6	53.9		0.564	3.02		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0103	J	0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.97	J	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

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Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	5.96	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11279SLC026	10/12/2011 18:21	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11279SLD026	10/12/2011 00:43	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11279SLD026	10/06/2011 23:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11279SLC026	10/06/2011 23:15	Karen L Beyer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112780016A	10/07/2011 14:45	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112790039A	10/11/2011 23:50	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112790038A	10/19/2011 23:06	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112790039A	10/07/2011 11:15	Kelli M Barto	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112790038A	10/07/2011 11:15	Kelli M Barto	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112780016A	10/06/2011 03:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112725708001	10/11/2011 01:45	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112725708001	10/10/2011 08:36	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112725708001	10/10/2011 08:36	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112725708001	10/10/2011 08:36	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112725708001	10/10/2011 08:36	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112725708001	10/10/2011 08:36	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112725708001	10/10/2011 08:36	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112725708001	10/10/2011 08:36	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112725708001	10/10/2011 08:36	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112725708001	10/10/2011 08:36	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112725708001	10/10/2011 08:36	Joanne M Gates	1

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LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 14:15

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5601 SDG#: DE256-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112725708001	10/10/2011 08:36	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112845708002	10/12/2011 07:48	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112725708001	10/10/2011 08:36	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112721026001A	09/29/2011 22:20	David K Beck	2
06125	Arsenic	SW-846 6020	1	112721026001A	09/29/2011 22:20	David K Beck	2
06126	Barium	SW-846 6020	1	112721026001D	09/29/2011 22:20	David K Beck	2
06127	Beryllium	SW-846 6020	1	112721026001A	09/29/2011 22:20	David K Beck	2
06128	Cadmium	SW-846 6020	1	112721026001A	09/29/2011 22:20	David K Beck	2
06131	Chromium	SW-846 6020	1	112721026001A	09/29/2011 22:20	David K Beck	2
06132	Cobalt	SW-846 6020	1	112721026001A	09/29/2011 22:20	David K Beck	2
06133	Copper	SW-846 6020	1	112721026001A	09/29/2011 22:20	David K Beck	2
06135	Lead	SW-846 6020	1	112721026001A	09/29/2011 22:20	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112721026001C	09/29/2011 22:20	David K Beck	2
06139	Nickel	SW-846 6020	1	112721026001A	09/29/2011 22:20	David K Beck	2
06141	Selenium	SW-846 6020	1	112721026001B	09/29/2011 22:20	David K Beck	2
06142	Silver	SW-846 6020	1	112721026001A	09/29/2011 22:20	David K Beck	2
06145	Thallium	SW-846 6020	1	112721026001A	09/29/2011 22:20	David K Beck	2
06148	Vanadium	SW-846 6020	1	112721026001A	09/29/2011 22:20	David K Beck	2
06149	Zinc	SW-846 6020	1	112721026001A	09/29/2011 22:20	David K Beck	2
00159	Mercury	SW-846 7471A	1	112725711001	09/29/2011 18:51	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708001	09/29/2011 11:57	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112845708002	10/11/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026001	09/29/2011 12:19	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711001	09/29/2011 12:59	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11279621201A	10/07/2011 16:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621203A	10/06/2011 07:41	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11280243201A	10/08/2011 15:01	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11279621201A	10/06/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621203A	10/04/2011 09:25	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11284039402A	10/11/2011 13:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11280243201A	10/07/2011 10:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162401A	10/05/2011 19:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-005-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421289
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 13:50

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5602 SDG#: DE256-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1

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SSFL Area IV Collocated Soil Sampling
SL-005-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421289
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 13:50

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5602 SDG#: DE256-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.76	J	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	1.0	J	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	3.3		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	1.4	J	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Fluoranthene	206-44-0	1.9		0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.71	J	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	1.1	J	0.67	1.7		1
10138	Pyrene	129-00-0	1.7		0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.5	U	1.5	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	3.0	U	3.0	3.0		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.75		0.076	0.17		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.5		1

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SSFL Area IV Collocated Soil Sampling
SL-005-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421289
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 13:50

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E5602 SDG#: DE256-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35		1
01363	p,p-DDE	72-55-9	0.067	U	0.067	0.35		1
01363	p,p-DDT	50-29-3	0.067	U	0.067	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.35		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.35		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

The sample was injected following maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

The TCX surrogate data associated with the blank is below the client specified limits of 50 -130%; however the recovery is within our in house statistical limits of 28-121%.

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance (48-137): Methoxychlor

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	14,500		6.08	20.1		1
07914	Boron	7440-42-8	9.43		0.362	5.03		1
01650	Calcium	7440-70-2	3,540		2.51	20.1		1
01654	Iron	7439-89-6	21,800		2.62	20.1		1

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Sample Description: **SL-005-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421289
LLI Group # 1268676
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 13:50

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E5602 SDG#: DE256-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	19.4		0.62	2.0		1
01657	Magnesium	7439-95-4	5,140		0.442	10.1		1
06958	Manganese	7439-96-5	268		0.0362	0.503		1
10145	Phosphorus	7723-14-0	808		0.352	10.1		1
01662	Potassium	7440-09-7	2,260		11.4	50.3		1
01667	Sodium	7440-23-5	91.1	J	5.98	101		1
07968	Strontium	7440-24-6	20.9		0.0251	0.503		1
06969	Tin	7440-31-5	1.06	J	0.322	10.1		1
06970	Titanium	7440-32-6	999		0.0714	1.01		1
10146	Zirconium	7440-67-7	3.56	J	0.462	5.03		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.112	J	0.0715	0.193		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.67		0.0774	0.387		2
06126	Barium	7440-39-3	51.4		0.102	0.387		2
06127	Beryllium	7440-41-7	0.424		0.0155	0.0967		2
06128	Cadmium	7440-43-9	0.161		0.0425	0.0967		2
06131	Chromium	7440-47-3	32.9		0.116	0.387		2
06132	Cobalt	7440-48-4	6.46		0.0193	0.0967		2
06133	Copper	7440-50-8	5.55		0.0774	0.387		2
06135	Lead	7439-92-1	11.9		0.0099	0.193		2
06138	Molybdenum	7439-98-7	0.366		0.0483	0.0967		2
06139	Nickel	7440-02-0	10.2		0.0967	0.387		2
06141	Selenium	7782-49-2	0.244	J	0.0561	0.387		2
06142	Silver	7440-22-4	0.0236	J	0.0137	0.0967		2
06145	Thallium	7440-28-0	0.150		0.0290	0.0967		2
06148	Vanadium	7440-62-2	56.9		0.0213	0.0967		2
06149	Zinc	7440-66-6	50.5		0.541	2.90		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0074	J	0.0066	0.0945		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.92	J	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.03		0.0100	0.0100		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421289
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 13:50

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5602 SDG#: DE256-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	1.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11279SLC026	10/12/2011 18:45	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11279SLD026	10/12/2011 01:15	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11279SLD026	10/06/2011 23:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11279SLC026	10/06/2011 23:15	Karen L Beyer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112780016A	10/07/2011 16:08	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112790039A	10/12/2011 00:05	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112790038A	10/19/2011 23:25	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112790039A	10/07/2011 11:15	Kelli M Barto	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112790038A	10/07/2011 11:15	Kelli M Barto	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112780016A	10/06/2011 03:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112725708001	10/11/2011 01:57	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112725708001	10/10/2011 08:48	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112725708001	10/10/2011 08:48	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112725708001	10/10/2011 08:48	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112725708001	10/10/2011 08:48	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112725708001	10/10/2011 08:48	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112725708001	10/10/2011 08:48	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112725708001	10/10/2011 08:48	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112725708001	10/10/2011 08:48	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112725708001	10/10/2011 08:48	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112725708001	10/10/2011 08:48	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112725708001	10/10/2011 08:48	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112845708002	10/12/2011 07:52	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112725708001	10/10/2011 08:48	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112721026001A	09/29/2011 22:23	David K Beck	2
06125	Arsenic	SW-846 6020	1	112721026001A	09/29/2011 22:23	David K Beck	2

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-005-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421289
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 13:50

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5602 SDG#: DE256-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112721026001D	09/29/2011 22:23	David K Beck	2
06127	Beryllium	SW-846 6020	1	112721026001A	09/29/2011 22:23	David K Beck	2
06128	Cadmium	SW-846 6020	1	112721026001A	09/29/2011 22:23	David K Beck	2
06131	Chromium	SW-846 6020	1	112721026001A	09/29/2011 22:23	David K Beck	2
06132	Cobalt	SW-846 6020	1	112721026001A	09/29/2011 22:23	David K Beck	2
06133	Copper	SW-846 6020	1	112721026001A	09/29/2011 22:23	David K Beck	2
06135	Lead	SW-846 6020	1	112721026001A	09/29/2011 22:23	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112721026001C	09/29/2011 22:23	David K Beck	2
06139	Nickel	SW-846 6020	1	112721026001A	09/29/2011 22:23	David K Beck	2
06141	Selenium	SW-846 6020	1	112721026001B	09/29/2011 22:23	David K Beck	2
06142	Silver	SW-846 6020	1	112721026001A	09/29/2011 22:23	David K Beck	2
06145	Thallium	SW-846 6020	1	112721026001A	09/29/2011 22:23	David K Beck	2
06148	Vanadium	SW-846 6020	1	112721026001A	09/29/2011 22:23	David K Beck	2
06149	Zinc	SW-846 6020	1	112721026001A	09/29/2011 22:23	David K Beck	2
00159	Mercury	SW-846 7471A	1	112725711001	09/29/2011 18:52	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708001	09/29/2011 11:57	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112845708002	10/11/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026001	09/29/2011 12:19	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711001	09/29/2011 12:59	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11279621201A	10/07/2011 17:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621203A	10/06/2011 08:51	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11280243201A	10/08/2011 15:08	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11279621201A	10/06/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621203A	10/04/2011 09:25	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11284039402A	10/11/2011 13:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11280243201A	10/07/2011 10:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162401A	10/05/2011 19:53	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-006-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421290
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 11:30

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5603 SDG#: DE256-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	51	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-006-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421290
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 11:30

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5603 SDG#: DE256-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.78	J	0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	1.2	J	0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	5.8		0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	J	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.68	U	0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	2.0		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Fluoranthene	206-44-0	2.3		0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	1.2	J	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	1.8		0.68	1.7		1
10138	Naphthalene	91-20-3	5.9		0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	2.0		0.68	1.7		1
10138	Pyrene	129-00-0	1.9		0.68	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	2.0	J	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	2.6	U	2.6	2.6		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.26	U	0.26	0.26		1
10401	2,4,5-TP	93-72-1	0.55		0.076	0.17		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	3.8		0.81	3.5		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-006-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421290
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 11:30

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5603 SDG#: DE256-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35		1
01363	p,p-DDE	72-55-9	1.0		0.067	0.35		1
01363	p,p-DDT	50-29-3	0.63		0.067	0.35		1
01363	Delta BHC	319-86-8	0.059	U	0.059	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.35		1
01363	Endosulfan I	959-98-8	0.080	U	0.080	0.17		1
01363	Endosulfan II	33213-65-9	0.14	U	0.14	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.17	U	0.17	0.35		1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.063	U	0.063	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.35		1
01363	Toxaphene	8001-35-2	7.2	U	7.2	7.2		1

The sample was injected following maintenance and a new calibration.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

The TCX surrogate data associated with the blank is below the client specified limits of 50 -130%; however the recovery is within our in house statistical limits of 28-121%.
The DCB surrogate data is above the client specified limits of 20-120%; however the recovery is within our in house statistical limits of 45-150%

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance (48-137): Methoxychlor

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.9	J	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	1.2	J	0.34	1.7		1
10225	PCB-1260	11096-82-5	1.0	J	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	15,900		5.87	19.4		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-006-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421290
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 11:30

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5603 SDG#: DE256-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	9.88		0.349	4.85		1
01650	Calcium	7440-70-2	3,840		2.42	19.4		1
01654	Iron	7439-89-6	22,700		2.53	19.4		1
01656	Lithium	7439-93-2	18.8		0.60	1.9		1
01657	Magnesium	7439-95-4	4,870		0.427	9.70		1
06958	Manganese	7439-96-5	285		0.0349	0.485		1
10145	Phosphorus	7723-14-0	825		0.339	9.70		1
01662	Potassium	7440-09-7	3,100		11.0	48.5		1
01667	Sodium	7440-23-5	85.9	J	5.77	97.0		1
07968	Strontium	7440-24-6	24.4		0.0242	0.485		1
06969	Tin	7440-31-5	0.816	J	0.310	9.70		1
06970	Titanium	7440-32-6	1,120		0.0702	0.989		1
10146	Zirconium	7440-67-7	7.79		0.446	4.85		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.134	J	0.0746	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.79		0.0807	0.403		2
06126	Barium	7440-39-3	61.5		0.107	0.403		2
06127	Beryllium	7440-41-7	0.450		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.208		0.0444	0.101		2
06131	Chromium	7440-47-3	32.1		0.121	0.403		2
06132	Cobalt	7440-48-4	6.37		0.0202	0.101		2
06133	Copper	7440-50-8	5.97		0.0807	0.403		2
06135	Lead	7439-92-1	12.1		0.0103	0.202		2
06138	Molybdenum	7439-98-7	0.407		0.0504	0.101		2
06139	Nickel	7440-02-0	10.7		0.101	0.403		2
06141	Selenium	7782-49-2	0.178	J	0.0585	0.403		2
06142	Silver	7440-22-4	0.0282	J	0.0143	0.101		2
06145	Thallium	7440-28-0	0.171		0.0302	0.101		2
06148	Vanadium	7440-62-2	56.6		0.0222	0.101		2
06149	Zinc	7440-66-6	52.8		0.565	3.02		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0109	J	0.0068	0.0963		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1

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Sample Description: SL-006-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421290
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 11:30

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5603 SDG#: DE256-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.25	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.8	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11279SLC026	10/12/2011 19:10	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11279SLD026	10/12/2011 01:47	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11279SLD026	10/06/2011 23:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11279SLC026	10/06/2011 23:15	Karen L Beyer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112780016A	10/07/2011 16:35	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112790039A	10/12/2011 00:20	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112790038A	10/19/2011 23:43	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112790039A	10/07/2011 11:15	Kelli M Barto	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112790038A	10/07/2011 11:15	Kelli M Barto	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112780016A	10/06/2011 03:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112725708001	10/11/2011 02:01	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112725708001	10/10/2011 08:52	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112725708001	10/10/2011 08:52	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112725708001	10/10/2011 08:52	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112725708001	10/10/2011 08:52	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112725708001	10/10/2011 08:52	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112725708001	10/10/2011 08:52	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112725708001	10/10/2011 08:52	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112725708001	10/10/2011 08:52	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112725708001	10/10/2011 08:52	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112725708001	10/10/2011 08:52	Joanne M Gates	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-006-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421290
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 11:30

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5603 SDG#: DE256-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112725708001	10/10/2011 08:52	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112845708002	10/12/2011 08:03	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112725708001	10/10/2011 08:52	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112721026001A	09/29/2011 22:33	David K Beck	2
06125	Arsenic	SW-846 6020	1	112721026001A	09/29/2011 22:33	David K Beck	2
06126	Barium	SW-846 6020	1	112721026001D	09/29/2011 22:33	David K Beck	2
06127	Beryllium	SW-846 6020	1	112721026001A	09/29/2011 22:33	David K Beck	2
06128	Cadmium	SW-846 6020	1	112721026001A	09/29/2011 22:33	David K Beck	2
06131	Chromium	SW-846 6020	1	112721026001A	09/29/2011 22:33	David K Beck	2
06132	Cobalt	SW-846 6020	1	112721026001A	09/29/2011 22:33	David K Beck	2
06133	Copper	SW-846 6020	1	112721026001A	09/29/2011 22:33	David K Beck	2
06135	Lead	SW-846 6020	1	112721026001A	09/29/2011 22:33	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112721026001C	09/29/2011 22:33	David K Beck	2
06139	Nickel	SW-846 6020	1	112721026001A	09/29/2011 22:33	David K Beck	2
06141	Selenium	SW-846 6020	1	112721026001B	09/29/2011 22:33	David K Beck	2
06142	Silver	SW-846 6020	1	112721026001A	09/29/2011 22:33	David K Beck	2
06145	Thallium	SW-846 6020	1	112721026001A	09/29/2011 22:33	David K Beck	2
06148	Vanadium	SW-846 6020	1	112721026001A	09/29/2011 22:33	David K Beck	2
06149	Zinc	SW-846 6020	1	112721026001A	09/29/2011 22:33	David K Beck	2
00159	Mercury	SW-846 7471A	1	112725711001	09/29/2011 18:54	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708001	09/29/2011 11:57	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112845708002	10/11/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026001	09/29/2011 12:19	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711001	09/29/2011 12:59	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11279621201A	10/07/2011 17:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621203A	10/06/2011 09:37	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11280243201A	10/08/2011 15:23	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11279621201A	10/06/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621203A	10/04/2011 09:25	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11284039402A	10/11/2011 13:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11280243201A	10/07/2011 10:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162401A	10/05/2011 19:53	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421291
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 10:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5604 SDG#: DE256-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1

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Sample Description: SL-019-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421291
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 10:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5604 SDG#: DE256-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.33	U	0.33	1.7		1
10138	Anthracene	120-12-7	0.33	U	0.33	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.67	U	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.4	J	0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	0.36	J	0.33	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.0	U	6.0	18		1
10138	Fluoranthene	206-44-0	0.67	U	0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	0.67	U	0.67	1.7		1
10138	Pyrene	129-00-0	0.67	U	0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	0.63	U	0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.17	U	0.17	0.17		1
10401	2,4,5-TP	93-72-1	0.26		0.076	0.17		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1

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Sample Description: SL-019-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421291
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 10:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5604 SDG#: DE256-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.23	J	0.067	0.34		1
01363	p,p-DDT	50-29-3	0.067	U	0.067	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.086	J	0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

The sample was injected following maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

The TCX surrogate data associated with the blank is below the client specified limits of 50 -130%; however the recovery is within our in house statistical limits of 28-121%.

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance (48-137): Methoxychlor

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1
10225	PCB-1260	11096-82-5	0.52	J	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	16,100		6.03	19.9		1
07914	Boron	7440-42-8	9.42		0.359	4.99		1
01650	Calcium	7440-70-2	3,250		2.49	19.9		1
01654	Iron	7439-89-6	21,900		2.60	19.9		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-019-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421291
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 10:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5604 SDG#: DE256-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	17.8		0.62	2.0		1
01657	Magnesium	7439-95-4	5,120		0.439	9.97		1
06958	Manganese	7439-96-5	252		0.0359	0.499		1
10145	Phosphorus	7723-14-0	668		0.349	9.97		1
01662	Potassium	7440-09-7	2,830		11.3	49.9		1
01667	Sodium	7440-23-5	86.7	J	5.93	99.7		1
07968	Strontium	7440-24-6	20.2		0.0249	0.499		1
06969	Tin	7440-31-5	0.959	J	0.319	9.97		1
06970	Titanium	7440-32-6	1,120		0.0708	0.997		1
10146	Zirconium	7440-67-7	7.94		0.459	4.99		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0922	J	0.0745	0.201		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.73		0.0806	0.403		2
06126	Barium	7440-39-3	64.8		0.107	0.403		2
06127	Beryllium	7440-41-7	0.464		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.191		0.0443	0.101		2
06131	Chromium	7440-47-3	34.8		0.121	0.403		2
06132	Cobalt	7440-48-4	6.28		0.0201	0.101		2
06133	Copper	7440-50-8	5.38		0.0806	0.403		2
06135	Lead	7439-92-1	10.5		0.0103	0.201		2
06138	Molybdenum	7439-98-7	0.351		0.0504	0.101		2
06139	Nickel	7440-02-0	10.4		0.101	0.403		2
06141	Selenium	7782-49-2	0.190	J	0.0584	0.403		2
06142	Silver	7440-22-4	0.0210	J	0.0143	0.101		2
06145	Thallium	7440-28-0	0.173		0.0302	0.101		2
06148	Vanadium	7440-62-2	58.8		0.0222	0.101		2
06149	Zinc	7440-66-6	48.4		0.564	3.02		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0135	J	0.0070	0.0991		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	5.90		0.0100	0.0100		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-019-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421291
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 10:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5604 SDG#: DE256-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	1.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11279SLC026	10/12/2011 19:35	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11279SLD026	10/12/2011 02:19	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11279SLD026	10/06/2011 23:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11279SLC026	10/06/2011 23:15	Karen L Beyer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112780016A	10/07/2011 17:02	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112790039A	10/12/2011 00:35	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112790038A	10/20/2011 00:02	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112790039A	10/07/2011 11:15	Kelli M Barto	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112790038A	10/07/2011 11:15	Kelli M Barto	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112780016A	10/06/2011 03:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112725708001	10/11/2011 02:05	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112725708001	10/10/2011 08:56	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112725708001	10/10/2011 08:56	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112725708001	10/10/2011 08:56	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112725708001	10/10/2011 08:56	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112725708001	10/10/2011 08:56	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112725708001	10/10/2011 08:56	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112725708001	10/10/2011 08:56	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112725708001	10/10/2011 08:56	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112725708001	10/10/2011 08:56	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112725708001	10/10/2011 08:56	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112725708001	10/10/2011 08:56	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112845708002	10/12/2011 08:08	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112725708001	10/10/2011 08:56	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112721026001A	09/29/2011 22:36	David K Beck	2
06125	Arsenic	SW-846 6020	1	112721026001A	09/29/2011 22:36	David K Beck	2

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-019-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421291
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 10:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5604 SDG#: DE256-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112721026001D	09/29/2011 22:36	David K Beck	2
06127	Beryllium	SW-846 6020	1	112721026001A	09/29/2011 22:36	David K Beck	2
06128	Cadmium	SW-846 6020	1	112721026001A	09/29/2011 22:36	David K Beck	2
06131	Chromium	SW-846 6020	1	112721026001A	09/29/2011 22:36	David K Beck	2
06132	Cobalt	SW-846 6020	1	112721026001A	09/29/2011 22:36	David K Beck	2
06133	Copper	SW-846 6020	1	112721026001A	09/29/2011 22:36	David K Beck	2
06135	Lead	SW-846 6020	1	112721026001A	09/29/2011 22:36	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112721026001C	09/29/2011 22:36	David K Beck	2
06139	Nickel	SW-846 6020	1	112721026001A	09/29/2011 22:36	David K Beck	2
06141	Selenium	SW-846 6020	1	112721026001B	09/29/2011 22:36	David K Beck	2
06142	Silver	SW-846 6020	1	112721026001A	09/29/2011 22:36	David K Beck	2
06145	Thallium	SW-846 6020	1	112721026001A	09/29/2011 22:36	David K Beck	2
06148	Vanadium	SW-846 6020	1	112721026001A	09/29/2011 22:36	David K Beck	2
06149	Zinc	SW-846 6020	1	112721026001A	09/29/2011 22:36	David K Beck	2
00159	Mercury	SW-846 7471A	1	112725711001	09/29/2011 18:55	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708001	09/29/2011 11:57	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112845708002	10/11/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026001	09/29/2011 12:19	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711001	09/29/2011 12:59	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11279621201A	10/07/2011 17:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621203A	10/06/2011 10:00	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11280243201A	10/08/2011 15:37	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11279621201A	10/06/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621203A	10/04/2011 09:25	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11284039402A	10/11/2011 13:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11280243201A	10/07/2011 10:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162401A	10/05/2011 19:53	Scott W Freisher	1

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Analysis Report

Sample Description: SL-020-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421292
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 11:10

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5605 SDG#: DE256-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1

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Sample Description: SL-020-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421292
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 11:10

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5605 SDG#: DE256-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.76	J	0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	1.1	J	0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	3.8		0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	J	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.68	U	0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.6	J	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	1.7		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	16	J	6.1	18		1
10138	Fluoranthene	206-44-0	1.9		0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	1.0	J	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	1.0	J	0.68	1.7		1
10138	Pyrene	129-00-0	1.6	J	0.68	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	1.1	U	1.1	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.20	U	0.20	0.20		1
10401	2,4,5-TP	93-72-1	0.45		0.076	0.17		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	2.9	J	0.81	3.4		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-020-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421292
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 11:10

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5605 SDG#: DE256-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	1.0		0.067	0.34		1
01363	p,p-DDT	50-29-3	0.99		0.067	0.34		1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17		1
01363	Dieldrin	60-57-1	0.17	U	0.17	0.34		1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17		1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.22	U	0.22	0.34		1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.097	U	0.097	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	5.8	U	5.8	6.7		1

The sample was injected following maintenance and a new calibration.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

The TCX surrogate data associated with the blank is below the client specified limits of 50 -130%; however the recovery is within our in house statistical limits of 28-121%.

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance (48-137): Methoxychlor

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	2.0	J	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	1.2	J	0.33	1.7		1
10225	PCB-1260	11096-82-5	0.87	J	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,300		6.02	19.9		1
07914	Boron	7440-42-8	9.48		0.358	4.97		1
01650	Calcium	7440-70-2	3,440		2.49	19.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-020-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421292
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 11:10

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5605 SDG#: DE256-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	21,400		2.60	19.9		1
01656	Lithium	7439-93-2	18.3		0.62	2.0		1
01657	Magnesium	7439-95-4	4,930		0.437	9.94		1
06958	Manganese	7439-96-5	281		0.0358	0.497		1
10145	Phosphorus	7723-14-0	715		0.348	9.94		1
01662	Potassium	7440-09-7	2,670		11.2	49.7		1
01667	Sodium	7440-23-5	88.1	J	5.92	99.4		1
07968	Strontium	7440-24-6	21.4		0.0249	0.497		1
06969	Tin	7440-31-5	0.969	J	0.318	9.94		1
06970	Titanium	7440-32-6	1,100		0.0706	0.994		1
10146	Zirconium	7440-67-7	6.66		0.457	4.97		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.107	J	0.0751	0.203		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.58		0.0811	0.406		2
06126	Barium	7440-39-3	65.0		0.108	0.406		2
06127	Beryllium	7440-41-7	0.441		0.0162	0.101		2
06128	Cadmium	7440-43-9	0.166		0.0446	0.101		2
06131	Chromium	7440-47-3	31.2		0.122	0.406		2
06132	Cobalt	7440-48-4	6.28		0.0203	0.101		2
06133	Copper	7440-50-8	6.20		0.0811	0.406		2
06135	Lead	7439-92-1	12.4		0.0103	0.203		2
06138	Molybdenum	7439-98-7	0.438		0.0507	0.101		2
06139	Nickel	7440-02-0	10.1		0.101	0.406		2
06141	Selenium	7782-49-2	0.190	J	0.0588	0.406		2
06142	Silver	7440-22-4	0.0708	J	0.0144	0.101		2
06145	Thallium	7440-28-0	0.149		0.0304	0.101		2
06148	Vanadium	7440-62-2	54.8		0.0223	0.101		2
06149	Zinc	7440-66-6	50.0		0.568	3.04		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0088	J	0.0067	0.0959		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.7		0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-020-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421292
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 11:10

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5605 SDG#: DE256-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	5.99	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.4	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11279SLC026	10/12/2011 20:00	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11279SLD026	10/12/2011 02:51	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11279SLD026	10/06/2011 23:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11279SLC026	10/06/2011 23:15	Karen L Beyer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112780016A	10/07/2011 17:30	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112790039A	10/12/2011 00:50	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112790038A	10/20/2011 00:20	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112790039A	10/07/2011 11:15	Kelli M Barto	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112790038A	10/07/2011 11:15	Kelli M Barto	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112780016A	10/06/2011 03:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112725708001	10/11/2011 02:10	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112725708001	10/10/2011 09:01	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112725708001	10/10/2011 09:01	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112725708001	10/10/2011 09:01	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112725708001	10/10/2011 09:01	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112725708001	10/10/2011 09:01	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112725708001	10/10/2011 09:01	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112725708001	10/10/2011 09:01	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112725708001	10/10/2011 09:01	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112725708001	10/10/2011 09:01	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112725708001	10/10/2011 09:01	Joanne M Gates	1

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Analysis Report

Sample Description: **SL-020-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421292
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 11:10

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5605 SDG#: DE256-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112725708001	10/10/2011 09:01	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112845708002	10/12/2011 08:12	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112725708001	10/10/2011 09:01	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112721026001A	09/29/2011 22:39	David K Beck	2
06125	Arsenic	SW-846 6020	1	112721026001A	09/29/2011 22:39	David K Beck	2
06126	Barium	SW-846 6020	1	112721026001D	09/29/2011 22:39	David K Beck	2
06127	Beryllium	SW-846 6020	1	112721026001A	09/29/2011 22:39	David K Beck	2
06128	Cadmium	SW-846 6020	1	112721026001A	09/29/2011 22:39	David K Beck	2
06131	Chromium	SW-846 6020	1	112721026001A	09/29/2011 22:39	David K Beck	2
06132	Cobalt	SW-846 6020	1	112721026001A	09/29/2011 22:39	David K Beck	2
06133	Copper	SW-846 6020	1	112721026001A	09/29/2011 22:39	David K Beck	2
06135	Lead	SW-846 6020	1	112721026001A	09/29/2011 22:39	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112721026001C	09/29/2011 22:39	David K Beck	2
06139	Nickel	SW-846 6020	1	112721026001A	09/29/2011 22:39	David K Beck	2
06141	Selenium	SW-846 6020	1	112721026001B	09/29/2011 22:39	David K Beck	2
06142	Silver	SW-846 6020	1	112721026001A	09/29/2011 22:39	David K Beck	2
06145	Thallium	SW-846 6020	1	112721026001A	09/29/2011 22:39	David K Beck	2
06148	Vanadium	SW-846 6020	1	112721026001A	09/29/2011 22:39	David K Beck	2
06149	Zinc	SW-846 6020	1	112721026001A	09/29/2011 22:39	David K Beck	2
00159	Mercury	SW-846 7471A	1	112725711001	09/29/2011 18:56	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708001	09/29/2011 11:57	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112845708002	10/11/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026001	09/29/2011 12:19	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711001	09/29/2011 12:59	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11279621201A	10/07/2011 17:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621203A	10/06/2011 10:23	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11280243201A	10/08/2011 15:59	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11279621201A	10/06/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621203A	10/04/2011 09:25	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11284039402A	10/11/2011 13:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11280243201A	10/07/2011 10:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162401A	10/05/2011 19:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-021-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421293
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 11:50

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5606 SDG#: DE256-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-021-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421293
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 11:50

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5606 SDG#: DE256-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.68	U	0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.68	U	0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	4.0		0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.68	U	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.68	U	0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	0.93	J	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	J	6.1	18		1
10138	Fluoranthene	206-44-0	0.98	J	0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	0.76	J	0.68	1.7		1
10138	Pyrene	129-00-0	0.86	J	0.68	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	29	U	29	29		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.13	J	0.076	0.17		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	1.6	J	0.81	3.4		1

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Sample Description: SL-021-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421293
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 11:50

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5606 SDG#: DE256-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.21	U	0.21	0.34		1
01363	p,p-DDT	50-29-3	0.32	U	0.32	0.34		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.21	U	0.21	0.21		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	2.6	J	2.2	6.7		1

The sample was injected following maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.

The TCX surrogate data associated with the blank is below the client specified limits of 50 -130%; however the recovery is within our in house statistical limits of 28-121%.

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance (48-137): Methoxychlor

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.6	J	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.89	J	0.33	1.7		1
10225	PCB-1260	11096-82-5	0.71	J	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	15,600		5.97	19.7		1
07914	Boron	7440-42-8	9.65		0.355	4.93		1
01650	Calcium	7440-70-2	3,510		2.47	19.7		1

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Sample Description: **SL-021-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421293
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 11:50

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5606 SDG#: DE256-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	21,000		2.58	19.7		1
01656	Lithium	7439-93-2	17.7		0.61	2.0		1
01657	Magnesium	7439-95-4	5,000		0.434	9.87		1
06958	Manganese	7439-96-5	399		0.0355	0.493		1
10145	Phosphorus	7723-14-0	740		0.345	9.87		1
01662	Potassium	7440-09-7	2,370		11.1	49.3		1
01667	Sodium	7440-23-5	91.3	J	5.87	98.7		1
07968	Strontium	7440-24-6	23.6		0.0247	0.493		1
06969	Tin	7440-31-5	1.08	J	0.316	9.87		1
06970	Titanium	7440-32-6	1,030		0.0707	0.996		1
10146	Zirconium	7440-67-7	4.06	J	0.454	4.93		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.100	J	0.0730	0.197		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.61		0.0789	0.395		2
06126	Barium	7440-39-3	79.4		0.105	0.395		2
06127	Beryllium	7440-41-7	0.452		0.0158	0.0987		2
06128	Cadmium	7440-43-9	0.163		0.0434	0.0987		2
06131	Chromium	7440-47-3	33.3		0.118	0.395		2
06132	Cobalt	7440-48-4	5.61		0.0197	0.0987		2
06133	Copper	7440-50-8	5.40		0.0789	0.395		2
06135	Lead	7439-92-1	8.71		0.0101	0.197		2
06138	Molybdenum	7439-98-7	0.365		0.0493	0.0987		2
06139	Nickel	7440-02-0	10.4		0.0987	0.395		2
06141	Selenium	7782-49-2	0.170	J	0.0572	0.395		2
06142	Silver	7440-22-4	0.0207	J	0.0140	0.0987		2
06145	Thallium	7440-28-0	0.167		0.0296	0.0987		2
06148	Vanadium	7440-62-2	55.2		0.0217	0.0987		2
06149	Zinc	7440-66-6	46.9		0.553	2.96		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0115	J	0.0068	0.0972		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.65	J	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-021-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421293
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 11:50

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5606 SDG#: DE256-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.14	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.6	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11279SLC026	10/12/2011	20:25	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11279SLD026	10/12/2011	03:24	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11279SLD026	10/06/2011	23:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11279SLC026	10/06/2011	23:15	Karen L Beyer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112780016A	10/07/2011	17:57	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112790039A	10/12/2011	01:06	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112790038A	10/20/2011	00:57	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112790039A	10/07/2011	11:15	Kelli M Barto	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112790038A	10/07/2011	11:15	Kelli M Barto	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112780016A	10/06/2011	03:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112725708001	10/11/2011	02:14	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112725708001	10/10/2011	09:05	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112725708001	10/10/2011	09:05	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112725708001	10/10/2011	09:05	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112725708001	10/10/2011	09:05	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112725708001	10/10/2011	09:05	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112725708001	10/10/2011	09:05	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112725708001	10/10/2011	09:05	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112725708001	10/10/2011	09:05	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112725708001	10/10/2011	09:05	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112725708001	10/10/2011	09:05	Joanne M Gates	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-021-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421293
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 11:50

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5606 SDG#: DE256-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112725708001	10/10/2011 09:05	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112845708002	10/12/2011 08:16	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112725708001	10/10/2011 09:05	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112721026001A	09/29/2011 22:42	David K Beck	2
06125	Arsenic	SW-846 6020	1	112721026001A	09/29/2011 22:42	David K Beck	2
06126	Barium	SW-846 6020	1	112721026001D	09/29/2011 22:42	David K Beck	2
06127	Beryllium	SW-846 6020	1	112721026001A	09/29/2011 22:42	David K Beck	2
06128	Cadmium	SW-846 6020	1	112721026001A	09/29/2011 22:42	David K Beck	2
06131	Chromium	SW-846 6020	1	112721026001A	09/29/2011 22:42	David K Beck	2
06132	Cobalt	SW-846 6020	1	112721026001A	09/29/2011 22:42	David K Beck	2
06133	Copper	SW-846 6020	1	112721026001A	09/29/2011 22:42	David K Beck	2
06135	Lead	SW-846 6020	1	112721026001A	09/29/2011 22:42	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112721026001C	09/29/2011 22:42	David K Beck	2
06139	Nickel	SW-846 6020	1	112721026001A	09/29/2011 22:42	David K Beck	2
06141	Selenium	SW-846 6020	1	112721026001B	09/29/2011 22:42	David K Beck	2
06142	Silver	SW-846 6020	1	112721026001A	09/29/2011 22:42	David K Beck	2
06145	Thallium	SW-846 6020	1	112721026001A	09/29/2011 22:42	David K Beck	2
06148	Vanadium	SW-846 6020	1	112721026001A	09/29/2011 22:42	David K Beck	2
06149	Zinc	SW-846 6020	1	112721026001A	09/29/2011 22:42	David K Beck	2
00159	Mercury	SW-846 7471A	1	112725711001	09/29/2011 18:58	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708001	09/29/2011 11:57	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112845708002	10/11/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026001	09/29/2011 12:19	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711001	09/29/2011 12:59	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11279621201A	10/07/2011 17:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621203A	10/06/2011 10:46	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11280243201A	10/08/2011 16:06	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11279621201A	10/06/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621203A	10/04/2011 09:25	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11284039402A	10/11/2011 13:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11280243201A	10/07/2011 10:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162401A	10/05/2011 19:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-022-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421294
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 14:40

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5607 SDG#: DE256-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1

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Sample Description: SL-022-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421294
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 14:40

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5607 SDG#: DE256-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	1.1	J	0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	2.0		0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	7.3		0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.68	U	0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	10	J	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	2.5		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	23		6.1	18		1
10138	Fluoranthene	206-44-0	3.8		0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.89	J	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	0.87	J	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	2.2		0.68	1.7		1
10138	Pyrene	129-00-0	3.2		0.68	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	4.2		1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	8.8		0.63	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.20	U	0.20	0.20		1
10401	2,4,5-TP	93-72-1	0.50		0.076	0.17		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	5.8		0.81	3.4		1

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Sample Description: SL-022-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421294
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 14:40

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5607 SDG#: DE256-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	p,p-DDD	72-54-8	0.19	U	0.19	0.34		1
01363	p,p-DDE	72-55-9	0.68		0.067	0.34		1
01363	p,p-DDT	50-29-3	0.77		0.067	0.34		1
01363	Delta BHC	319-86-8	0.046	J	0.036	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.12	U	0.12	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.20	U	0.20	0.34		1
01363	Endrin Ketone	53494-70-5	0.097	J	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.041	U	0.041	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	5.9	U	5.9	6.7		1

The sample was injected following maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.

The TCX surrogate data associated with the blank is below the client specified limits of 50 -130%; however the recovery is within our in house statistical limits of 28-121%.

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance (48-137): Methoxychlor

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	2.0	J	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	1.2	J	0.34	1.7		1
10225	PCB-1260	11096-82-5	0.97	J	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1

The surrogate recovery was outside the client specified QC limits at 123% for DCB. However, the recovery is within our in house statistical limits of 53-142%. The data is reported.

Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	16,100		6.10	20.2		1

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Sample Description: **SL-022-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421294
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 14:40

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5607 SDG#: DE256-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	10.3		0.363	5.04		1
01650	Calcium	7440-70-2	3,560		2.52	20.2		1
01654	Iron	7439-89-6	22,800		2.63	20.2		1
01656	Lithium	7439-93-2	20.2		0.63	2.0		1
01657	Magnesium	7439-95-4	5,050		0.444	10.1		1
06958	Manganese	7439-96-5	306		0.0363	0.504		1
10145	Phosphorus	7723-14-0	715		0.353	10.1		1
01662	Potassium	7440-09-7	3,490		11.4	50.4		1
01667	Sodium	7440-23-5	83.9	J	6.00	101		1
07968	Strontium	7440-24-6	23.1		0.0252	0.504		1
06969	Tin	7440-31-5	1.03	J	0.323	10.1		1
06970	Titanium	7440-32-6	812		0.0709	0.998		1
10146	Zirconium	7440-67-7	5.84		0.464	5.04		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.108	J	0.0746	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.40		0.0807	0.403		2
06126	Barium	7440-39-3	64.3		0.107	0.403		2
06127	Beryllium	7440-41-7	0.430		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.195		0.0444	0.101		2
06131	Chromium	7440-47-3	31.7		0.121	0.403		2
06132	Cobalt	7440-48-4	6.79		0.0202	0.101		2
06133	Copper	7440-50-8	6.34		0.0807	0.403		2
06135	Lead	7439-92-1	9.99		0.0103	0.202		2
06138	Molybdenum	7439-98-7	0.457		0.0504	0.101		2
06139	Nickel	7440-02-0	10.8		0.101	0.403		2
06141	Selenium	7782-49-2	0.217	J	0.0585	0.403		2
06142	Silver	7440-22-4	0.0204	J	0.0143	0.101		2
06145	Thallium	7440-28-0	0.146		0.0302	0.101		2
06148	Vanadium	7440-62-2	55.3		0.0222	0.101		2
06149	Zinc	7440-66-6	50.3		0.565	3.02		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0193	J	0.0070	0.0997		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.83	U	0.83	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.56	J	0.20	1.0		1

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Sample Description: **SL-022-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421294
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 14:40

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5607 SDG#: DE256-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.05	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.8	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11279SLC026	10/12/2011 20:50	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11279SLD026	10/12/2011 03:56	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11279SLD026	10/06/2011 23:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11279SLC026	10/06/2011 23:15	Karen L Beyer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112780016A	10/07/2011 18:24	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112790039A	10/12/2011 01:20	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112790038A	10/20/2011 01:16	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112790039A	10/07/2011 11:15	Kelli M Barto	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112790038A	10/07/2011 11:15	Kelli M Barto	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112780016A	10/06/2011 03:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112725708001	10/11/2011 02:18	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112725708001	10/10/2011 09:09	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112725708001	10/10/2011 09:09	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112725708001	10/10/2011 09:09	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112725708001	10/10/2011 09:09	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112725708001	10/10/2011 09:09	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112725708001	10/10/2011 09:09	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112725708001	10/10/2011 09:09	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112725708001	10/10/2011 09:09	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112725708001	10/10/2011 09:09	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112725708001	10/10/2011 09:09	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-022-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421294
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 14:40

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5607 SDG#: DE256-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112725708001	10/10/2011 09:09	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112845708002	10/12/2011 08:20	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112725708001	10/10/2011 09:09	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112721026001A	09/29/2011 22:45	David K Beck	2
06125	Arsenic	SW-846 6020	1	112721026001A	09/29/2011 22:45	David K Beck	2
06126	Barium	SW-846 6020	1	112721026001D	09/29/2011 22:45	David K Beck	2
06127	Beryllium	SW-846 6020	1	112721026001A	09/29/2011 22:45	David K Beck	2
06128	Cadmium	SW-846 6020	1	112721026001A	09/29/2011 22:45	David K Beck	2
06131	Chromium	SW-846 6020	1	112721026001A	09/29/2011 22:45	David K Beck	2
06132	Cobalt	SW-846 6020	1	112721026001A	09/29/2011 22:45	David K Beck	2
06133	Copper	SW-846 6020	1	112721026001A	09/29/2011 22:45	David K Beck	2
06135	Lead	SW-846 6020	1	112721026001A	09/29/2011 22:45	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112721026001C	09/29/2011 22:45	David K Beck	2
06139	Nickel	SW-846 6020	1	112721026001A	09/29/2011 22:45	David K Beck	2
06141	Selenium	SW-846 6020	1	112721026001B	09/29/2011 22:45	David K Beck	2
06142	Silver	SW-846 6020	1	112721026001A	09/29/2011 22:45	David K Beck	2
06145	Thallium	SW-846 6020	1	112721026001A	09/29/2011 22:45	David K Beck	2
06148	Vanadium	SW-846 6020	1	112721026001A	09/29/2011 22:45	David K Beck	2
06149	Zinc	SW-846 6020	1	112721026001A	09/29/2011 22:45	David K Beck	2
00159	Mercury	SW-846 7471A	1	112725711001	09/29/2011 18:59	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708001	09/29/2011 11:57	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112845708002	10/11/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026001	09/29/2011 12:19	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711001	09/29/2011 12:59	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11279621201A	10/07/2011 18:37	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621203A	10/06/2011 11:09	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11280243201A	10/08/2011 16:20	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11279621201A	10/06/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621203A	10/04/2011 09:25	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11284039402A	10/11/2011 13:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11280243201A	10/07/2011 10:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162401A	10/05/2011 19:53	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421295
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 09:15

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5608 SDG#: DE256-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-023-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421295
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 09:15

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5608 SDG#: DE256-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	1.5	J	0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	1.7	J	0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	2.8		0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.68	U	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.90	J	0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	1.6	J	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	J	6.1	18		1
10138	Fluoranthene	206-44-0	1.9		0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	0.68	U	0.68	1.7		1
10138	Pyrene	129-00-0	2.9		0.68	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	3.2	U	3.2	3.2		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	0.36	U	0.36	0.36		1
10401	2,4,5-TP	93-72-1	0.076	U	0.076	0.17		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	1.8	J	0.82	3.5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-023-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421295
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 09:15

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5608 SDG#: DE256-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35		1
01363	p,p-DDE	72-55-9	0.25	J	0.067	0.35		1
01363	p,p-DDT	50-29-3	0.38		0.067	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.075	U	0.075	0.35		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.35		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

The sample was injected following maintenance and a new calibration.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

The TCX surrogate data associated with the blank and this sample is below the client specified limits of 50 -130%; however the recovery is within our in house statistical limits of 28-121%.

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance (48-137): Methoxychlor

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.6	J	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.64	J	0.34	1.7		1
10225	PCB-1260	11096-82-5	0.75	J	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside of the method required holding time, and surrogate recoveries are within the QC acceptance limits. Since the hold time had expired prior to the

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-023-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421295
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 09:15

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5608 SDG#: DE256-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	second extraction all results are reported from the original extract. Similar results were obtained in both extracts.							
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,000		6.11	20.2		1
07914	Boron	7440-42-8	10.1		0.363	5.05		1
01650	Calcium	7440-70-2	3,610		2.52	20.2		1
01654	Iron	7439-89-6	22,000		2.63	20.2		1
01656	Lithium	7439-93-2	20.5		0.63	2.0		1
01657	Magnesium	7439-95-4	5,540		0.444	10.1		1
06958	Manganese	7439-96-5	267		0.0363	0.505		1
10145	Phosphorus	7723-14-0	582		0.353	10.1		1
01662	Potassium	7440-09-7	1,770		11.4	50.5		1
01667	Sodium	7440-23-5	98.7	J	6.01	101		1
07968	Strontium	7440-24-6	21.9		0.0252	0.505		1
06969	Tin	7440-31-5	1.04	J	0.323	10.1		1
06970	Titanium	7440-32-6	750		0.0703	0.990		1
10146	Zirconium	7440-67-7	5.94		0.464	5.05		1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.111	J	0.0747	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.68		0.0807	0.404		2
06126	Barium	7440-39-3	55.1		0.107	0.404		2
06127	Beryllium	7440-41-7	0.426		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.148		0.0444	0.101		2
06131	Chromium	7440-47-3	32.8		0.121	0.404		2
06132	Cobalt	7440-48-4	6.25		0.0202	0.101		2
06133	Copper	7440-50-8	5.31		0.0807	0.404		2
06135	Lead	7439-92-1	12.3		0.0103	0.202		2
06138	Molybdenum	7439-98-7	0.380		0.0505	0.101		2
06139	Nickel	7440-02-0	10.2		0.101	0.404		2
06141	Selenium	7782-49-2	0.259	J	0.0585	0.404		2
06142	Silver	7440-22-4	0.0152	J	0.0143	0.101		2
06145	Thallium	7440-28-0	0.129		0.0303	0.101		2
06148	Vanadium	7440-62-2	57.6		0.0222	0.101		2
06149	Zinc	7440-66-6	48.4		0.565	3.03		2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0118	J	0.0068	0.0967		1
Wet Chemistry		**EPA 300.0**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.83	1.0		1
		EPA 314.0	**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.6		1
		SW-846 7199	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-023-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421295
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 09:15

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5608 SDG#: DE256-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	6.09		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	1.9		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11279SLC026	10/12/2011 21:14	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11279SLD026	10/12/2011 13:41	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11279SLD026	10/06/2011 23:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11279SLC026	10/06/2011 23:15	Karen L Beyer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112780016A	10/07/2011 18:52	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112790039A	10/12/2011 01:35	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112790038A	10/20/2011 01:35	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112790039A	10/07/2011 11:15	Kelli M Barto	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112790038A	10/07/2011 11:15	Kelli M Barto	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112780016A	10/06/2011 03:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112725708001	10/11/2011 02:22	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112725708001	10/10/2011 09:13	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112725708001	10/10/2011 09:13	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112725708001	10/10/2011 09:13	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112725708001	10/10/2011 09:13	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112725708001	10/10/2011 09:13	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112725708001	10/10/2011 09:13	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112725708001	10/10/2011 09:13	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112725708001	10/10/2011 09:13	Joanne M Gates	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421295
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 09:15

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5608 SDG#: DE256-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	112725708001	10/10/2011 09:13	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112725708001	10/10/2011 09:13	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112725708001	10/10/2011 09:13	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112845708002	10/12/2011 08:24	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112725708001	10/10/2011 09:13	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112721026001A	09/29/2011 22:48	David K Beck	2
06125	Arsenic	SW-846 6020	1	112721026001A	09/29/2011 22:48	David K Beck	2
06126	Barium	SW-846 6020	1	112721026001D	09/29/2011 22:48	David K Beck	2
06127	Beryllium	SW-846 6020	1	112721026001A	09/29/2011 22:48	David K Beck	2
06128	Cadmium	SW-846 6020	1	112721026001A	09/29/2011 22:48	David K Beck	2
06131	Chromium	SW-846 6020	1	112721026001A	09/29/2011 22:48	David K Beck	2
06132	Cobalt	SW-846 6020	1	112721026001A	09/29/2011 22:48	David K Beck	2
06133	Copper	SW-846 6020	1	112721026001A	09/29/2011 22:48	David K Beck	2
06135	Lead	SW-846 6020	1	112721026001A	09/29/2011 22:48	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112721026001C	09/29/2011 22:48	David K Beck	2
06139	Nickel	SW-846 6020	1	112721026001A	09/29/2011 22:48	David K Beck	2
06141	Selenium	SW-846 6020	1	112721026001B	09/29/2011 22:48	David K Beck	2
06142	Silver	SW-846 6020	1	112721026001A	09/29/2011 22:48	David K Beck	2
06145	Thallium	SW-846 6020	1	112721026001A	09/29/2011 22:48	David K Beck	2
06148	Vanadium	SW-846 6020	1	112721026001A	09/29/2011 22:48	David K Beck	2
06149	Zinc	SW-846 6020	1	112721026001A	09/29/2011 22:48	David K Beck	2
00159	Mercury	SW-846 7471A	1	112725711001	09/29/2011 19:00	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708001	09/29/2011 11:57	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112845708002	10/11/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026001	09/29/2011 12:19	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711001	09/29/2011 12:59	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11279621201A	10/07/2011 18:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621203A	10/06/2011 11:32	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11280243201A	10/08/2011 16:49	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11279621201A	10/06/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621203A	10/04/2011 09:25	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11284039402A	10/11/2011 13:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11280243201A	10/07/2011 10:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162401A	10/05/2011 19:53	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-024-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421296
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5609 SDG#: DE256-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1

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Sample Description: **SL-024-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421296
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5609 SDG#: DE256-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.79	J	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	2.9		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	1.0	J	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	1.4	J	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Fluoranthene	206-44-0	1.7		0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	J	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.71	J	0.67	1.7		1
10138	Naphthalene	91-20-3	1.6	J	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	1.3	J	0.67	1.7		1
10138	Pyrene	129-00-0	1.5	J	0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1		1
10401	2,4-DB	94-82-6	1.5	U	1.5	1.7		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7		1
10401	MCPA	94-74-6	77	U	77	250		1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250		1
10401	2,4,5-T	93-76-5	1.9		0.083	0.17		1
10401	2,4,5-TP	93-72-1	0.41		0.076	0.17		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17		1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4		1

*=This limit was used in the evaluation of the final result
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Sample Description: SL-024-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421296
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5609 SDG#: DE256-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	ug/kg	
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34		1
01363	p,p-DDE	72-55-9	0.067	U	0.067	0.34		1
01363	p,p-DDT	50-29-3	0.067	U	0.067	0.34		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34		1
01363	Endrin	72-20-8	0.067	U	0.067	0.34		1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.34		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17		1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

The sample was injected following maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

The TCX surrogate data associated with the blank is below the client specified limits of 50 -130%; however the recovery is within our in house statistical limits of 28-121%.

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance (48-137): Methoxychlor

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.3	J	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.89	J	0.33	1.7		1
10225	PCB-1260	11096-82-5	0.39	U	0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	11,800		6.09	20.1		1
07914	Boron	7440-42-8	8.87		0.362	5.03		1
01650	Calcium	7440-70-2	4,600		2.52	20.1		1
01654	Iron	7439-89-6	19,200		2.63	20.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **SL-024-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421296
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5609 SDG#: DE256-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	19.1		0.62	2.0		1
01657	Magnesium	7439-95-4	5,160		0.443	10.1		1
06958	Manganese	7439-96-5	281		0.0362	0.503		1
10145	Phosphorus	7723-14-0	838		0.352	10.1		1
01662	Potassium	7440-09-7	2,320		11.4	50.3		1
01667	Sodium	7440-23-5	111		5.99	101		1
07968	Strontium	7440-24-6	20.5		0.0252	0.503		1
06969	Tin	7440-31-5	0.857	J	0.322	10.1		1
06970	Titanium	7440-32-6	1,090		0.0714	1.01		1
10146	Zirconium	7440-67-7	9.18		0.463	5.03		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.119	J	0.0737	0.199		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.53		0.0797	0.399		2
06126	Barium	7440-39-3	42.5		0.106	0.399		2
06127	Beryllium	7440-41-7	0.389		0.0159	0.0996		2
06128	Cadmium	7440-43-9	0.156		0.0438	0.0996		2
06131	Chromium	7440-47-3	31.2		0.120	0.399		2
06132	Cobalt	7440-48-4	5.49		0.0199	0.0996		2
06133	Copper	7440-50-8	4.43		0.0797	0.399		2
06135	Lead	7439-92-1	8.90		0.0102	0.199		2
06138	Molybdenum	7439-98-7	0.313		0.0498	0.0996		2
06139	Nickel	7440-02-0	9.27		0.0996	0.399		2
06141	Selenium	7782-49-2	0.170	J	0.0578	0.399		2
06142	Silver	7440-22-4	0.0169	J	0.0141	0.0996		2
06145	Thallium	7440-28-0	0.112		0.0299	0.0996		2
06148	Vanadium	7440-62-2	56.4		0.0219	0.0996		2
06149	Zinc	7440-66-6	43.2		0.558	2.99		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0098	J	0.0070	0.100		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.67	J	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.65		0.0100	0.0100		1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: SL-024-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421296
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5609 SDG#: DE256-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	1.6	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11279SLC026	10/12/2011 21:39	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11279SLD026	10/12/2011 08:15	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11279SLD026	10/06/2011 23:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11279SLC026	10/06/2011 23:15	Karen L Beyer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112780016A	10/07/2011 19:19	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112790039A	10/12/2011 01:50	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112790038A	10/20/2011 01:53	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112790039A	10/07/2011 11:15	Kelli M Barto	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112790038A	10/07/2011 11:15	Kelli M Barto	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112780016A	10/06/2011 03:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112725708001	10/11/2011 02:26	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112725708001	10/10/2011 09:17	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112725708001	10/10/2011 09:17	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112725708001	10/10/2011 09:17	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112725708001	10/10/2011 09:17	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112725708001	10/10/2011 09:17	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112725708001	10/10/2011 09:17	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112725708001	10/10/2011 09:17	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112725708001	10/10/2011 09:17	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112725708001	10/10/2011 09:17	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112725708001	10/10/2011 09:17	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112725708001	10/10/2011 09:17	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112845708002	10/12/2011 08:28	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112725708001	10/10/2011 09:17	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112721026001A	09/29/2011 22:51	David K Beck	2
06125	Arsenic	SW-846 6020	1	112721026001A	09/29/2011 22:51	David K Beck	2
06126	Barium	SW-846 6020	1	112721026001D	09/29/2011 22:51	David K Beck	2

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: SL-024-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421296
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5609 SDG#: DE256-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	112721026001A	09/29/2011 22:51	David K Beck	2
06128	Cadmium	SW-846 6020	1	112721026001A	09/29/2011 22:51	David K Beck	2
06131	Chromium	SW-846 6020	1	112721026001A	09/29/2011 22:51	David K Beck	2
06132	Cobalt	SW-846 6020	1	112721026001A	09/29/2011 22:51	David K Beck	2
06133	Copper	SW-846 6020	1	112721026001A	09/29/2011 22:51	David K Beck	2
06135	Lead	SW-846 6020	1	112721026001A	09/29/2011 22:51	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112721026001C	09/29/2011 22:51	David K Beck	2
06139	Nickel	SW-846 6020	1	112721026001A	09/29/2011 22:51	David K Beck	2
06141	Selenium	SW-846 6020	1	112721026001B	09/29/2011 22:51	David K Beck	2
06142	Silver	SW-846 6020	1	112721026001A	09/29/2011 22:51	David K Beck	2
06145	Thallium	SW-846 6020	1	112721026001A	09/29/2011 22:51	David K Beck	2
06148	Vanadium	SW-846 6020	1	112721026001A	09/29/2011 22:51	David K Beck	2
06149	Zinc	SW-846 6020	1	112721026001A	09/29/2011 22:51	David K Beck	2
00159	Mercury	SW-846 7471A	1	112725711001	09/29/2011 19:04	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708001	09/29/2011 11:57	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112845708002	10/11/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026001	09/29/2011 12:19	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711001	09/29/2011 12:59	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11279621201A	10/07/2011 19:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621203A	10/06/2011 11:55	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11280243201A	10/08/2011 17:04	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11279621201A	10/06/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621203A	10/04/2011 09:25	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11284039402A	10/11/2011 13:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11280243201A	10/07/2011 10:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162401A	10/05/2011 19:53	Scott W Freisher	1

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Analysis Report

Sample Description: SL-025-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421297
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 07:30

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5610 SDG#: DE256-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	500		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,300		1
04688	Benzoic acid	65-85-0	170	U	170	500		1
04688	Benzyl alcohol	100-51-6	170	U	170	500		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	33	U	33	170		1
04688	4-Chloroaniline	106-47-8	67	U	67	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	33	U	33	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	330		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	33	U	33	170		1
04688	3,5-Dimethylphenol	108-68-9	33	U	33	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500		1
04688	2,4-Dinitrophenol	51-28-5	330	U	330	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	33	U	33	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	33	U	33	170		1
04688	4-Methylphenol	106-44-5	33	U	33	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	33	U	33	170		1
04688	4-Nitroaniline	100-01-6	67	U	67	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	500		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	500		1
04688	Phenol	108-95-2	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-025-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421297
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 07:30

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5610 SDG#: DE256-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	33	U	33	170		1
04688	2,4,6-Trichlorophenol	88-06-2	33	U	33	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	1.1	J	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	1.5	J	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	4.5		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	1.4	J	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.6	J	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	2.2		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	21		6.1	18		1
10138	Fluoranthene	206-44-0	3.1		0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.74	J	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	1.5	J	0.67	1.7		1
10138	Pyrene	129-00-0	2.7		0.67	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.4	U	1.4	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	1.8	U	1.8	1.8		1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.4		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7		1
10401	MCPA	94-74-6	86	U	86	260		1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260		1
10401	2,4,5-T	93-76-5	0.14	U	0.14	0.17		1
10401	2,4,5-TP	93-72-1	0.78		0.077	0.17		1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.079	J	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	2.5	J	0.81	3.5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-025-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421297
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 07:30

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5610 SDG#: DE256-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35		1
01363	p,p-DDE	72-55-9	0.17	U	0.17	0.35		1
01363	p,p-DDT	50-29-3	0.67	U	0.67	0.67		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.12	U	0.12	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.20	U	0.20	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.21	U	0.21	0.35		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.050	U	0.050	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.35		1
01363	Toxaphene	8001-35-2	3.2	U	3.2	6.7		1

The sample was injected following maintenance and a new calibration.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

The TCX surrogate data associated with the blank is below the client specified limits of 50 -130%; however the recovery is within our in house statistical limits of 28-121%.

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance (48-137): Methoxychlor

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.3	J	1.0	3.3		1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	5.0		0.33	1.7		1
10225	PCB-1260	11096-82-5	3.3		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,500		6.11	20.2		1
07914	Boron	7440-42-8	9.52		0.364	5.05		1
01650	Calcium	7440-70-2	4,700		2.53	20.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-025-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421297
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 07:30

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5610 SDG#: DE256-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	21,500		2.64	20.2		1
01656	Lithium	7439-93-2	18.8		0.63	2.0		1
01657	Magnesium	7439-95-4	5,700		0.445	10.1		1
06958	Manganese	7439-96-5	329		0.0364	0.505		1
10145	Phosphorus	7723-14-0	721		0.354	10.1		1
01662	Potassium	7440-09-7	1,470		11.4	50.5		1
01667	Sodium	7440-23-5	98.2	J	6.01	101		1
07968	Strontium	7440-24-6	21.3		0.0253	0.505		1
06969	Tin	7440-31-5	1.01	J	0.323	10.1		1
06970	Titanium	7440-32-6	1,210		0.0697	0.981		1
10146	Zirconium	7440-67-7	11.0		0.465	5.05		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.133	J	0.0719	0.194		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.88		0.0777	0.389		2
06126	Barium	7440-39-3	61.2		0.103	0.389		2
06127	Beryllium	7440-41-7	0.418		0.0155	0.0972		2
06128	Cadmium	7440-43-9	0.134		0.0428	0.0972		2
06131	Chromium	7440-47-3	32.7		0.117	0.389		2
06132	Cobalt	7440-48-4	6.29		0.0194	0.0972		2
06133	Copper	7440-50-8	3.69		0.0777	0.389		2
06135	Lead	7439-92-1	9.22		0.0099	0.194		2
06138	Molybdenum	7439-98-7	0.341		0.0486	0.0972		2
06139	Nickel	7440-02-0	9.08		0.0972	0.389		2
06141	Selenium	7782-49-2	0.188	J	0.0564	0.389		2
06142	Silver	7440-22-4	0.0162	J	0.0138	0.0972		2
06145	Thallium	7440-28-0	0.102		0.0292	0.0972		2
06148	Vanadium	7440-62-2	61.6		0.0214	0.0972		2
06149	Zinc	7440-66-6	45.9		0.544	2.92		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0098	J	0.0068	0.0963		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.81	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.86	J	0.20	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-025-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421297
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 07:30

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5610 SDG#: DE256-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.48	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.0	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11279SLC026	10/12/2011	22:05	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11279SLD026	10/12/2011	08:48	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11279SLD026	10/06/2011	23:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11279SLC026	10/06/2011	23:15	Karen L Beyer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112780016A	10/07/2011	19:46	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112790039A	10/12/2011	02:05	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112790038A	10/20/2011	02:12	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112790039A	10/07/2011	11:15	Kelli M Barto	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112790038A	10/07/2011	11:15	Kelli M Barto	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112780016A	10/06/2011	03:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112725708001	10/11/2011	02:30	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112725708001	10/10/2011	09:21	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112725708001	10/10/2011	09:21	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112725708001	10/10/2011	09:21	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112725708001	10/10/2011	09:21	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112725708001	10/10/2011	09:21	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112725708001	10/10/2011	09:21	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112725708001	10/10/2011	09:21	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112725708001	10/10/2011	09:21	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112725708001	10/10/2011	09:21	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112725708001	10/10/2011	09:21	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112725708001	10/10/2011	09:21	Joanne M Gates	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-025-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-025-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421297
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 07:30

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5610 SDG#: DE256-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112845708002	10/12/2011 08:32	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112725708001	10/10/2011 09:21	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112721026001A	09/29/2011 22:54	David K Beck	2
06125	Arsenic	SW-846 6020	1	112721026001A	09/29/2011 22:54	David K Beck	2
06126	Barium	SW-846 6020	1	112721026001D	09/29/2011 22:54	David K Beck	2
06127	Beryllium	SW-846 6020	1	112721026001A	09/29/2011 22:54	David K Beck	2
06128	Cadmium	SW-846 6020	1	112721026001A	09/29/2011 22:54	David K Beck	2
06131	Chromium	SW-846 6020	1	112721026001A	09/29/2011 22:54	David K Beck	2
06132	Cobalt	SW-846 6020	1	112721026001A	09/29/2011 22:54	David K Beck	2
06133	Copper	SW-846 6020	1	112721026001A	09/29/2011 22:54	David K Beck	2
06135	Lead	SW-846 6020	1	112721026001A	09/29/2011 22:54	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112721026001C	09/29/2011 22:54	David K Beck	2
06139	Nickel	SW-846 6020	1	112721026001A	09/29/2011 22:54	David K Beck	2
06141	Selenium	SW-846 6020	1	112721026001B	09/29/2011 22:54	David K Beck	2
06142	Silver	SW-846 6020	1	112721026001A	09/29/2011 22:54	David K Beck	2
06145	Thallium	SW-846 6020	1	112721026001A	09/29/2011 22:54	David K Beck	2
06148	Vanadium	SW-846 6020	1	112721026001A	09/29/2011 22:54	David K Beck	2
06149	Zinc	SW-846 6020	1	112721026001A	09/29/2011 22:54	David K Beck	2
00159	Mercury	SW-846 7471A	1	112725711001	09/29/2011 19:05	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708001	09/29/2011 11:57	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112845708002	10/11/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026001	09/29/2011 12:19	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711001	09/29/2011 12:59	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11279621201A	10/07/2011 19:15	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621203A	10/06/2011 12:18	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11280243201A	10/08/2011 17:18	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11279621201A	10/06/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621203A	10/04/2011 09:25	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11284039402B	10/11/2011 13:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11280243201A	10/07/2011 10:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162401A	10/05/2011 19:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-038-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421298
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 15:00

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5611 SDG#: DE256-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1

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Sample Description: SL-038-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421298
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 15:00

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5611 SDG#: DE256-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	2.0		0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19		1
10138	Chrysene	218-01-9	0.78	J	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	11	J	6.2	19		1
10138	Fluoranthene	206-44-0	0.92	J	0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19		1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7		1
10138	Pyrene	129-00-0	0.89	J	0.69	1.7		1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7		1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2		1
10401	2,4-DB	94-82-6	100	U	100	100		1
10401	Dicamba	1918-00-9	0.61	J	0.41	1.2		1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5		1
10401	2,4-DP (Dichlorprop)	120-36-5	1.6	J	0.82	1.7		1
10401	MCPA	94-74-6	870		78	260		1
10401	MCPP (Mecoprop)	93-65-2	99	U	99	260		1
10401	2,4,5-T	93-76-5	0.084	U	0.084	0.17		1
10401	2,4,5-TP	93-72-1	0.090	J	0.077	0.17		1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17		1

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Sample Description: **SL-038-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421298
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 15:00

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5611 SDG#: DE256-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17		1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17		1
01363	Chlordane	57-74-9	1.1	J	0.82	3.5		1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35		1
01363	p,p-DDE	72-55-9	0.14	U	0.14	0.35		1
01363	p,p-DDT	50-29-3	0.18	U	0.18	0.35		1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17		1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.35		1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17		1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.35		1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35		1
01363	Endrin	72-20-8	0.067	U	0.067	0.35		1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.35		1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35		1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17		1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7		1
01363	Mirex	2385-85-5	0.067	U	0.067	0.35		1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7		1

The sample was injected following maintenance and a new calibration.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

The TCX surrogate data associated with the blank is below the client specified limits of 50 -130%; however the recovery is within our in house statistical limits of 28-121%.

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance (48-137): Methoxychlor

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.72	J	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1

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Sample Description: SL-038-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421298
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 15:00

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5611 SDG#: DE256-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,900		5.98	19.8		1
07914	Boron	7440-42-8	13.6		0.356	4.94		1
01650	Calcium	7440-70-2	14,300		2.47	19.8		1
01654	Iron	7439-89-6	25,900		2.58	19.8		1
01656	Lithium	7439-93-2	24.3		0.61	2.0		1
01657	Magnesium	7439-95-4	6,260		0.435	9.88		1
06958	Manganese	7439-96-5	337		0.0356	0.494		1
10145	Phosphorus	7723-14-0	586		0.346	9.88		1
01662	Potassium	7440-09-7	5,520		11.2	49.4		1
01667	Sodium	7440-23-5	85.8	J	5.88	98.8		1
07968	Strontium	7440-24-6	41.1		0.0247	0.494		1
06969	Tin	7440-31-5	0.592	J	0.316	9.88		1
06970	Titanium	7440-32-6	1,200		0.0708	0.998		1
10146	Zirconium	7440-67-7	4.84	J	0.455	4.94		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.122	J	0.0746	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.65		0.0806	0.403		2
06126	Barium	7440-39-3	92.0		0.107	0.403		2
06127	Beryllium	7440-41-7	0.580		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.237		0.0443	0.101		2
06131	Chromium	7440-47-3	29.8		0.121	0.403		2
06132	Cobalt	7440-48-4	8.30		0.0202	0.101		2
06133	Copper	7440-50-8	11.6		0.0806	0.403		2
06135	Lead	7439-92-1	8.57		0.0103	0.202		2
06138	Molybdenum	7439-98-7	0.410		0.0504	0.101		2
06139	Nickel	7440-02-0	14.6		0.101	0.403		2
06141	Selenium	7782-49-2	0.292	J	0.0584	0.403		2
06142	Silver	7440-22-4	0.0234	J	0.0143	0.101		2
06145	Thallium	7440-28-0	0.269		0.0302	0.101		2
06148	Vanadium	7440-62-2	53.6		0.0222	0.101		2
06149	Zinc	7440-66-6	61.1		0.564	3.02		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0877	J	0.0069	0.0977		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.84	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1

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Sample Description: **SL-038-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421298
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 15:00

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5611 SDG#: DE256-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.55	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11279SLC026	10/13/2011 12:15	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11279SLD026	10/12/2011 09:20	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11279SLD026	10/06/2011 23:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11279SLC026	10/06/2011 23:15	Karen L Beyer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112830002A	10/12/2011 18:10	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112790039A	10/12/2011 02:20	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112790038A	10/20/2011 02:49	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112790039A	10/07/2011 11:15	Kelli M Barto	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112790038A	10/07/2011 11:15	Kelli M Barto	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	112830002A	10/11/2011 07:45	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112725708001	10/11/2011 02:34	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112725708001	10/10/2011 09:25	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112725708001	10/10/2011 09:25	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112725708001	10/10/2011 09:25	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112725708001	10/10/2011 09:25	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112725708001	10/10/2011 09:25	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112725708001	10/10/2011 09:25	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112725708001	10/10/2011 09:25	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112725708001	10/10/2011 09:25	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112725708001	10/10/2011 09:25	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112725708001	10/10/2011 09:25	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112725708001	10/10/2011 09:25	Joanne M Gates	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-038-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SS-0.0-0.5

LLI Sample # SW 6421298
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 15:00

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5611 SDG#: DE256-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112845708002	10/12/2011 08:37	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112725708001	10/10/2011 09:25	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112721026001A	09/29/2011 22:57	David K Beck	2
06125	Arsenic	SW-846 6020	1	112721026001A	09/29/2011 22:57	David K Beck	2
06126	Barium	SW-846 6020	1	112721026001D	09/29/2011 22:57	David K Beck	2
06127	Beryllium	SW-846 6020	1	112721026001A	09/29/2011 22:57	David K Beck	2
06128	Cadmium	SW-846 6020	1	112721026001A	09/29/2011 22:57	David K Beck	2
06131	Chromium	SW-846 6020	1	112721026001A	09/29/2011 22:57	David K Beck	2
06132	Cobalt	SW-846 6020	1	112721026001A	09/29/2011 22:57	David K Beck	2
06133	Copper	SW-846 6020	1	112721026001A	09/29/2011 22:57	David K Beck	2
06135	Lead	SW-846 6020	1	112721026001A	09/29/2011 22:57	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112721026001C	09/29/2011 22:57	David K Beck	2
06139	Nickel	SW-846 6020	1	112721026001A	09/29/2011 22:57	David K Beck	2
06141	Selenium	SW-846 6020	1	112721026001B	09/29/2011 22:57	David K Beck	2
06142	Silver	SW-846 6020	1	112721026001A	09/29/2011 22:57	David K Beck	2
06145	Thallium	SW-846 6020	1	112721026001A	09/29/2011 22:57	David K Beck	2
06148	Vanadium	SW-846 6020	1	112721026001A	09/29/2011 22:57	David K Beck	2
06149	Zinc	SW-846 6020	1	112721026001A	09/29/2011 22:57	David K Beck	2
00159	Mercury	SW-846 7471A	1	112725711001	09/29/2011 19:06	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708001	09/29/2011 11:57	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112845708002	10/11/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026001	09/29/2011 12:19	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711001	09/29/2011 12:59	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11279621201B	10/07/2011 20:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621203B	10/06/2011 14:13	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11280243201A	10/08/2011 17:33	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11279621201B	10/06/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621203B	10/04/2011 09:25	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11284039402B	10/11/2011 13:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11280243201A	10/07/2011 10:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162401A	10/05/2011 19:53	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-103-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421299
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5612 SDG#: DE256-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	175	U	175	349		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	2-butoxy-Ethanol	111-76-2	1,700	U	1,700	1,700		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Sample Description: **SL-103-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421299
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5612 SDG#: DE256-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	2-phenoxy-Ethanol	122-99-6	1,700	U	1,700	1,700		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	2.1		0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19		1
10138	Chrysene	218-01-9	0.48	J	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	55		6.2	19		1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19		1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7		1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		25.83
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	630	U	630	1,600		1

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Sample Description: **SL-103-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421299
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5612 SDG#: DE256-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.47	J	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside of the method required holding time, and surrogate recoveries are within the QC acceptance limits. Since the hold time had expired prior to the second extraction all results are reported from the original extract. Similar results were obtained in both extracts.								
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	0.60	J	0.42	1.3		1
10199	EFH (C21-C30)	n.a.	8.7		0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	24		0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: **SL-103-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421299
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5612 SDG#: DE256-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,700		6.22	20.6		1
07914	Boron	7440-42-8	6.93		0.370	5.14		1
01650	Calcium	7440-70-2	5,170		2.57	20.6		1
01654	Iron	7439-89-6	18,300		2.68	20.6		1
01656	Lithium	7439-93-2	23.5		0.64	2.1		1
01657	Magnesium	7439-95-4	4,200		0.452	10.3		1
06958	Manganese	7439-96-5	259		0.0370	0.514		1
10145	Phosphorus	7723-14-0	356		0.360	10.3		1
01662	Potassium	7440-09-7	2,670		11.6	51.4		1
01667	Sodium	7440-23-5	103		6.11	103		1
07968	Strontium	7440-24-6	26.2		0.0257	0.514		1
06969	Tin	7440-31-5	0.840	J	0.329	10.3		1
06970	Titanium	7440-32-6	1,050		0.0730	1.03		1
10146	Zirconium	7440-67-7	1.38	J	0.473	5.14		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0944	J	0.0776	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.85		0.0839	0.419		2
06126	Barium	7440-39-3	76.5		0.111	0.419		2
06127	Beryllium	7440-41-7	0.500		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.0906	J	0.0461	0.105		2
06131	Chromium	7440-47-3	15.1		0.126	0.419		2
06132	Cobalt	7440-48-4	4.75		0.0210	0.105		2
06133	Copper	7440-50-8	7.14		0.0839	0.419		2
06135	Lead	7439-92-1	4.80		0.0107	0.210		2
06138	Molybdenum	7439-98-7	0.615		0.0524	0.105		2
06139	Nickel	7440-02-0	9.34		0.105	0.419		2
06141	Selenium	7782-49-2	0.160	J	0.0608	0.419		2
06142	Silver	7440-22-4	0.0234	J	0.0149	0.105		2
06145	Thallium	7440-28-0	0.240		0.0314	0.105		2
06148	Vanadium	7440-62-2	30.5		0.0231	0.105		2
06149	Zinc	7440-66-6	52.9		0.587	3.14		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	U	0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.7		0.84	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.7		0.84	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1

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Sample Description: **SL-103-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421299
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5612 SDG#: DE256-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.37	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	4.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-103-SA7-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11280SLB026	10/11/2011 14:06	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11279SLC026	10/13/2011 12:40	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11279SLD026	10/11/2011 23:06	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11280SLB026	10/07/2011 17:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11279SLD026	10/06/2011 23:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11279SLC026	10/06/2011 23:15	Karen L Beyer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11274A34A	10/01/2011 11:39	Laura M Krieger	25.83
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201127125677	09/28/2011 17:11	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201127125677	09/28/2011 17:12	Lois E Hiltz	n.a.
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112740006A	10/05/2011 20:08	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112790038A	10/20/2011 03:07	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112790038A	10/07/2011 11:15	Kelli M Barto	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112740006A	10/03/2011 19:00	Wanda F Oswald	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112760023A	10/04/2011 21:15	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112770027A	10/05/2011 01:47	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112790037A	10/11/2011 01:58	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112790036A	10/09/2011 02:04	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112790036A	10/07/2011 08:00	Joseph S Feister	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-103-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421299
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5612 SDG#: DE256-12BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10303	Terphenyls soil prep	SW-846 3550B	1	112790037A	10/07/2011 07:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112760023A	10/04/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112770027A	10/04/2011 17:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112725708001	10/11/2011 01:20	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112725708001	10/10/2011 08:11	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112725708001	10/10/2011 08:11	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112725708001	10/10/2011 08:11	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112725708001	10/10/2011 08:11	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112725708001	10/10/2011 08:11	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112725708001	10/10/2011 08:11	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112725708001	10/10/2011 08:11	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112725708001	10/10/2011 08:11	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112725708001	10/10/2011 08:11	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112725708001	10/10/2011 08:11	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112725708001	10/10/2011 08:11	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112845708002	10/12/2011 07:23	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112725708001	10/10/2011 08:11	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112721026001A	09/29/2011 22:01	David K Beck	2
06125	Arsenic	SW-846 6020	1	112721026001A	09/29/2011 22:01	David K Beck	2
06126	Barium	SW-846 6020	1	112721026001D	09/29/2011 22:01	David K Beck	2
06127	Beryllium	SW-846 6020	1	112721026001A	09/29/2011 22:01	David K Beck	2
06128	Cadmium	SW-846 6020	1	112721026001A	09/29/2011 22:01	David K Beck	2
06131	Chromium	SW-846 6020	1	112721026001A	09/29/2011 22:01	David K Beck	2
06132	Cobalt	SW-846 6020	1	112721026001A	09/29/2011 22:01	David K Beck	2
06133	Copper	SW-846 6020	1	112721026001A	09/29/2011 22:01	David K Beck	2
06135	Lead	SW-846 6020	1	112721026001A	09/29/2011 22:01	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112721026001C	09/29/2011 22:01	David K Beck	2
06139	Nickel	SW-846 6020	1	112721026001A	09/29/2011 22:01	David K Beck	2
06141	Selenium	SW-846 6020	1	112721026001B	09/29/2011 22:01	David K Beck	2
06142	Silver	SW-846 6020	1	112721026001A	09/29/2011 22:01	David K Beck	2
06145	Thallium	SW-846 6020	1	112721026001A	09/29/2011 22:01	David K Beck	2
06148	Vanadium	SW-846 6020	1	112721026001A	09/29/2011 22:01	David K Beck	2
06149	Zinc	SW-846 6020	1	112721026001A	09/29/2011 22:01	David K Beck	2
00159	Mercury	SW-846 7471A	1	112725711001	09/29/2011 19:07	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708001	09/29/2011 11:57	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112845708002	10/11/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026001	09/29/2011 12:19	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711001	09/29/2011 12:59	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11279621201B	10/07/2011 19:28	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11279621201B	10/07/2011 19:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621203B	10/06/2011 12:41	Elyse P Brunstetter	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-103-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421299
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5612 SDG#: DE256-12BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11280243201A	10/08/2011 17:47	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11279621201B	10/06/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621203B	10/04/2011 09:25	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11284039402B	10/11/2011 13:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11280243201A	10/07/2011 10:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162401A	10/05/2011 19:53	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-103-SA7-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421300
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5612 SDG#: DE256-12MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	1,170		175	349		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,700		17	170		1
04688	Acenaphthylene	208-96-8	1,900		17	170		1
04688	Aniline	62-53-3	1,100		170	520		1
04688	Anthracene	120-12-7	1,900		17	170		1
04688	Benzidine	92-87-5	1,900	J	1,200	3,500		1
04688	Benzo(a)anthracene	56-55-3	1,800		17	170		1
04688	Benzo(a)pyrene	50-32-8	1,900		17	170		1
04688	Benzo(b)fluoranthene	205-99-2	2,000		17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	2,000		17	170		1
04688	Benzo(k)fluoranthene	207-08-9	1,900		17	170		1
04688	Benzoic acid	65-85-0	280	J	170	520		1
04688	Benzyl alcohol	100-51-6	1,700		170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	1,900		17	170		1
04688	2-butoxy-Ethanol	111-76-2	1,700	U	1,700	1,700		1
04688	Butylbenzylphthalate	85-68-7	1,800		17	170		1
04688	Di-n-butylphthalate	84-74-2	1,900		17	170		1
04688	Carbazole	86-74-8	1,800		17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		35	170		1
04688	4-Chloroaniline	106-47-8	710		70	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600		17	170		1
04688	2-Chloronaphthalene	91-58-7	1,600		17	170		1
04688	2-Chlorophenol	95-57-8	1,700		17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		35	170		1
04688	Chrysene	218-01-9	1,700		17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	2,000		17	170		1
04688	Dibenzofuran	132-64-9	1,700		17	170		1
04688	1,2-Dichlorobenzene	95-50-1	1,500		17	170		1
04688	1,3-Dichlorobenzene	541-73-1	1,500		17	170		1
04688	1,4-Dichlorobenzene	106-46-7	1,500		17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	930		100	350		1
04688	2,4-Dichlorophenol	120-83-2	1,800		17	170		1
04688	Diethylphthalate	84-66-2	1,800		17	170		1
04688	2,4-Dimethylphenol	105-67-9	1,700		35	170		1
04688	3,5-Dimethylphenol	108-68-9	1,900		35	170		1
04688	Dimethylphthalate	131-11-3	1,800		17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,100		170	520		1
04688	2,4-Dinitrophenol	51-28-5	1,200		350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	1,800		35	170		1
04688	2,6-Dinitrotoluene	606-20-2	1,800		17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,900		17	350		1
04688	Fluoranthene	206-44-0	1,900		17	170		1
04688	Fluorene	86-73-7	1,800		17	170		1
04688	Hexachlorobenzene	118-74-1	1,800		17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-103-SA7-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421300
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5612 SDG#: DE256-12MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobutadiene	87-68-3	1,600		70	170		1
04688	Hexachlorocyclopentadiene	77-47-4	3,000		170	520		1
04688	Hexachloroethane	67-72-1	1,500		17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	2,000		17	170		1
04688	Isophorone	78-59-1	1,700		17	170		1
04688	1-Methylnaphthalene	90-12-0	1,600		17	170		1
04688	2-Methylnaphthalene	91-57-6	1,700		17	170		1
04688	2-Methylphenol	95-48-7	1,700		35	170		1
04688	4-Methylphenol	106-44-5	1,600		35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,600		17	170		1
04688	2-Nitroaniline	88-74-4	1,800		17	170		1
04688	3-Nitroaniline	99-09-2	1,800		35	170		1
04688	4-Nitroaniline	100-01-6	1,300		70	170		1
04688	Nitrobenzene	98-95-3	1,600		17	170		1
04688	2-Nitrophenol	88-75-5	1,700		17	170		1
04688	4-Nitrophenol	100-02-7	1,400		170	520		1
04688	N-Nitrosodimethylamine	62-75-9	1,400		35	170		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600		17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	1,900		17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	2,100		17	170		1
04688	Pentachlorophenol	87-86-5	800		170	520		1
04688	Phenanthrene	85-01-8	1,800		17	170		1
04688	Phenol	108-95-2	1,600		17	170		1
04688	2-phenoxy-Ethanol	122-99-6	1,700	U	1,700	1,700		1
04688	Pyrene	129-00-0	1,800		17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	1,600		17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800		35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	1,800		35	170		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	33		0.70	1.7		1
10138	Acenaphthylene	208-96-8	31		0.35	1.7		1
10138	Anthracene	120-12-7	34		0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	35		0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	37		0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	38		0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	30		0.70	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	37		0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	40		6.3	19		1

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Sample Description: SL-103-SA7-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421300
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5612 SDG#: DE256-12MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Di-n-butylphthalate	84-74-2	41		6.3	19		1
10138	Chrysene	218-01-9	35		0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	32		0.70	1.7		1
10138	Diethylphthalate	84-66-2	36		6.3	19		1
10138	Dimethylphthalate	131-11-3	35		6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	45		6.3	19		1
10138	Fluoranthene	206-44-0	37		0.70	1.7		1
10138	Fluorene	86-73-7	34		0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	32		0.70	1.7		1
10138	1-Methylnaphthalene	90-12-0	31		0.70	1.7		1
10138	2-Methylnaphthalene	91-57-6	31		0.70	1.7		1
10138	Naphthalene	91-20-3	31		0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	30		0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	41		6.3	19		1
10138	Phenanthrene	85-01-8	33		0.70	1.7		1
10138	Pyrene	129-00-0	35		0.70	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	9.4		0.2	1.1		26.43
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	5,600		630	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.5		1
10225	PCB-1016	12674-11-2	17		0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	18		0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside of the method required holding time, and surrogate recoveries are within the QC acceptance limits. Since the hold time had expired prior to the second extraction all results are reported from the original extract. Similar results were obtained in both extracts.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,200		100	520		1

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Sample Description: **SL-103-SA7-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421300
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5612 SDG#: DE256-12MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Isopropanol	67-63-0	2,600		100	520		1
10501	Methanol	67-56-1	2,600		100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	26		5.2	10		1
08283	Ethylene glycol	107-21-1	100		5.2	10		1
08283	Propylene glycol	57-55-6	110		5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	7.8		1.6	3.7		1
10318	o-Terphenyl	84-15-1	8.1		1.6	3.7		1
10318	p-Terphenyl	92-94-4	8.2		1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.84	J	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	2.0		0.42	1.3		1
10199	EFH (C21-C30)	n.a.	7.6		0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	19		0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.80	J	0.42	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,400		6.28	20.8		1
07914	Boron	7440-42-8	201		0.374	5.19		1
01650	Calcium	7440-70-2	4,020		2.59	20.8		1
01654	Iron	7439-89-6	17,300		2.71	20.8		1
01656	Lithium	7439-93-2	124		0.64	2.1		1
01657	Magnesium	7439-95-4	4,410		0.457	10.4		1
06958	Manganese	7439-96-5	286		0.0374	0.519		1
10145	Phosphorus	7723-14-0	434		0.363	10.4		1
01662	Potassium	7440-09-7	3,780		11.7	51.9		1
01667	Sodium	7440-23-5	1,020		6.18	104		1
07968	Strontium	7440-24-6	115		0.0259	0.519		1
06969	Tin	7440-31-5	361		0.332	10.4		1
06970	Titanium	7440-32-6	1,260		0.0716	1.01		1
10146	Zirconium	7440-67-7	101		0.477	5.19		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.529		0.0768	0.208		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.98		0.0830	0.415		2
06126	Barium	7440-39-3	88.5		0.110	0.415		2
06127	Beryllium	7440-41-7	1.21		0.0166	0.104		2

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Sample Description: SL-103-SA7-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421300
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5612 SDG#: DE256-12MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	mg/kg	
06128	Cadmium	7440-43-9	1.15	0.0457	0.104		2
06131	Chromium	7440-47-3	24.4	0.125	0.415		2
06132	Cobalt	7440-48-4	53.2	0.0208	0.104		2
06133	Copper	7440-50-8	17.6	0.0830	0.415		2
06135	Lead	7439-92-1	8.00	0.0106	0.208		2
06138	Molybdenum	7439-98-7	10.2	0.0519	0.104		2
06139	Nickel	7440-02-0	20.0	0.104	0.415		2
06141	Selenium	7782-49-2	2.10	0.0602	0.415		2
06142	Silver	7440-22-4	10.2	0.0147	0.104		2
06145	Thallium	7440-28-0	0.656	0.0311	0.104		2
06148	Vanadium	7440-62-2	40.0	0.0228	0.104		2
06149	Zinc	7440-66-6	64.6	0.581	3.11		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.173	0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	10.1	0.84	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	10.4	0.84	1.6		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	592	9.4	31.4		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	35.8	1.0	5.2		5
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	4.6	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-103-SA7-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11280SLB026	10/11/2011 10:17	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11279SLC026	10/13/2011 13:05	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11279SLD026	10/11/2011 23:38	Gregory J Drahovsky	1

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Sample Description: SL-103-SA7-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421300
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5612 SDG#: DE256-12MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	11280SLB026	10/07/2011 17:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11279SLD026	10/06/2011 23:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11279SLC026	10/06/2011 23:15	Karen L Beyer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11274A34A	10/01/2011 12:12	Laura M Krieger	26.43
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201127125677	09/28/2011 17:14	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201127125677	09/28/2011 17:15	Lois E Hiltz	n.a.
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112740006A	10/05/2011 20:17	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112790038A	10/20/2011 03:26	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112790038A	10/07/2011 11:15	Kelli M Barto	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112740006A	10/03/2011 19:00	Wanda F Oswald	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112760023A	10/04/2011 23:27	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112770027A	10/05/2011 02:00	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112790037A	10/11/2011 02:25	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112790036A	10/09/2011 02:27	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112790036A	10/07/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112790037A	10/07/2011 07:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112760023A	10/04/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112770027A	10/04/2011 17:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112725708001	10/11/2011 01:33	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112725708001	10/10/2011 08:24	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112725708001	10/10/2011 08:24	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112725708001	10/10/2011 08:24	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112725708001	10/10/2011 08:24	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112725708001	10/10/2011 08:24	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112725708001	10/10/2011 08:24	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112725708001	10/10/2011 08:24	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112725708001	10/10/2011 08:24	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112725708001	10/10/2011 08:24	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112725708001	10/10/2011 08:24	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112725708001	10/10/2011 08:24	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112845708002	10/12/2011 07:35	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112725708001	10/10/2011 08:24	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112721026001A	09/29/2011 22:11	David K Beck	2
06125	Arsenic	SW-846 6020	1	112721026001A	09/29/2011 22:11	David K Beck	2
06126	Barium	SW-846 6020	1	112721026001D	09/29/2011 22:11	David K Beck	2
06127	Beryllium	SW-846 6020	1	112721026001A	09/29/2011 22:11	David K Beck	2
06128	Cadmium	SW-846 6020	1	112721026001A	09/29/2011 22:11	David K Beck	2
06131	Chromium	SW-846 6020	1	112721026001A	09/29/2011 22:11	David K Beck	2
06132	Cobalt	SW-846 6020	1	112721026001A	09/29/2011 22:11	David K Beck	2
06133	Copper	SW-846 6020	1	112721026001A	09/29/2011 22:11	David K Beck	2
06135	Lead	SW-846 6020	1	112721026001A	09/29/2011 22:11	David K Beck	2

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Sample Description: **SL-103-SA7-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421300
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5612 SDG#: DE256-12MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	112721026001C	09/29/2011 22:11	David K Beck	2
06139	Nickel	SW-846 6020	1	112721026001A	09/29/2011 22:11	David K Beck	2
06141	Selenium	SW-846 6020	1	112721026001B	09/29/2011 22:11	David K Beck	2
06142	Silver	SW-846 6020	1	112721026001A	09/29/2011 22:11	David K Beck	2
06145	Thallium	SW-846 6020	1	112721026001A	09/29/2011 22:11	David K Beck	2
06148	Vanadium	SW-846 6020	1	112721026001A	09/29/2011 22:11	David K Beck	2
06149	Zinc	SW-846 6020	1	112721026001A	09/29/2011 22:11	David K Beck	2
00159	Mercury	SW-846 7471A	1	112725711001	09/29/2011 19:09	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708001	09/29/2011 11:57	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112845708002	10/11/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026001	09/29/2011 12:19	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711001	09/29/2011 12:59	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11279621201B	10/07/2011 19:53	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11279621201B	10/07/2011 19:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621203B	10/06/2011 13:50	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11280243201A	10/08/2011 18:01	Elyse P Brunstetter	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11279621201B	10/06/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621203B	10/04/2011 09:25	William L Hamaker Jr	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11280243201A	10/07/2011 10:20	Daniel S Smith	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162401A	10/05/2011 19:53	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-103-SA7-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421301
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5612 SDG#: DE256-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	874		175	349		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,700		17	170		1
04688	Acenaphthylene	208-96-8	1,900		17	170		1
04688	Aniline	62-53-3	1,200		170	520		1
04688	Anthracene	120-12-7	1,900		17	170		1
04688	Benzidine	92-87-5	2,200	J	1,200	3,500		1
04688	Benzo(a)anthracene	56-55-3	1,900		17	170		1
04688	Benzo(a)pyrene	50-32-8	2,000		17	170		1
04688	Benzo(b)fluoranthene	205-99-2	1,900		17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	2,000		17	170		1
04688	Benzo(k)fluoranthene	207-08-9	1,800		17	170		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	1,700		170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	1,900		17	170		1
04688	2-butoxy-Ethanol	111-76-2	1,700	U	1,700	1,700		1
04688	Butylbenzylphthalate	85-68-7	1,800		17	170		1
04688	Di-n-butylphthalate	84-74-2	1,900		17	170		1
04688	Carbazole	86-74-8	1,800		17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		35	170		1
04688	4-Chloroaniline	106-47-8	1,100		70	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600		17	170		1
04688	2-Chloronaphthalene	91-58-7	1,600		17	170		1
04688	2-Chlorophenol	95-57-8	1,700		17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		35	170		1
04688	Chrysene	218-01-9	1,700		17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	2,000		17	170		1
04688	Dibenzofuran	132-64-9	1,700		17	170		1
04688	1,2-Dichlorobenzene	95-50-1	1,500		17	170		1
04688	1,3-Dichlorobenzene	541-73-1	1,500		17	170		1
04688	1,4-Dichlorobenzene	106-46-7	1,500		17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,400		100	350		1
04688	2,4-Dichlorophenol	120-83-2	1,800		17	170		1
04688	Diethylphthalate	84-66-2	1,800		17	170		1
04688	2,4-Dimethylphenol	105-67-9	1,700		35	170		1
04688	3,5-Dimethylphenol	108-68-9	1,900		35	170		1
04688	Dimethylphthalate	131-11-3	1,800		17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	800		170	520		1
04688	2,4-Dinitrophenol	51-28-5	700	J	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	1,800		35	170		1
04688	2,6-Dinitrotoluene	606-20-2	1,900		17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,000		17	350		1
04688	Fluoranthene	206-44-0	1,900		17	170		1
04688	Fluorene	86-73-7	1,900		17	170		1
04688	Hexachlorobenzene	118-74-1	1,800		17	170		1

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Sample Description: **SL-103-SA7-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421301
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5612 SDG#: DE256-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorobutadiene	87-68-3	1,600		70	170		1
04688	Hexachlorocyclopentadiene	77-47-4	2,600		170	520		1
04688	Hexachloroethane	67-72-1	1,500		17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	2,000		17	170		1
04688	Isophorone	78-59-1	1,700		17	170		1
04688	1-Methylnaphthalene	90-12-0	1,600		17	170		1
04688	2-Methylnaphthalene	91-57-6	1,700		17	170		1
04688	2-Methylphenol	95-48-7	1,800		35	170		1
04688	4-Methylphenol	106-44-5	1,700		35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,600		17	170		1
04688	2-Nitroaniline	88-74-4	1,900		17	170		1
04688	3-Nitroaniline	99-09-2	1,800		35	170		1
04688	4-Nitroaniline	100-01-6	1,400		70	170		1
04688	Nitrobenzene	98-95-3	1,700		17	170		1
04688	2-Nitrophenol	88-75-5	1,700		17	170		1
04688	4-Nitrophenol	100-02-7	1,500		170	520		1
04688	N-Nitrosodimethylamine	62-75-9	1,400		35	170		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600		17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800		17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	2,000		17	170		1
04688	Pentachlorophenol	87-86-5	750		170	520		1
04688	Phenanthrene	85-01-8	1,800		17	170		1
04688	Phenol	108-95-2	1,700		17	170		1
04688	2-phenoxy-Ethanol	122-99-6	1,700	U	1,700	1,700		1
04688	Pyrene	129-00-0	1,800		17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	1,600		17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	1,800		35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	1,900		35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	32		0.69	1.7		1
10138	Acenaphthylene	208-96-8	32		0.35	1.7		1
10138	Anthracene	120-12-7	33		0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	34		0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	35		0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	37		0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	27		0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	36		0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	32		6.2	19		1

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Sample Description: **SL-103-SA7-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421301
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5612 SDG#: DE256-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Di-n-butylphthalate	84-74-2	35		6.2	19		1
10138	Chrysene	218-01-9	33		0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	28		0.69	1.7		1
10138	Diethylphthalate	84-66-2	33		6.2	19		1
10138	Dimethylphthalate	131-11-3	34		6.2	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	41		6.2	19		1
10138	Fluoranthene	206-44-0	35		0.69	1.7		1
10138	Fluorene	86-73-7	34		0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	28		0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	30		0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	30		0.69	1.7		1
10138	Naphthalene	91-20-3	30		0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	96		0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	36		6.2	19		1
10138	Phenanthrene	85-01-8	32		0.69	1.7		1
10138	Pyrene	129-00-0	34		0.69	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	8.6		0.2	1.0		24.18
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	5,700		630	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.5		1
10225	PCB-1016	12674-11-2	22		0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	22		0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside of the method required holding time, and surrogate recoveries are within the QC acceptance limits. Since the hold time had expired prior to the second extraction all results are reported from the original extract. Similar results were obtained in both extracts.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,400		100	520		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-103-SA7-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421301
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5612 SDG#: DE256-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Isopropanol	67-63-0	2,400		100	520		1
10501	Methanol	67-56-1	2,400		100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	35		5.2	10		1
08283	Ethylene glycol	107-21-1	110		5.2	10		1
08283	Propylene glycol	57-55-6	120		5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	8.3		1.6	3.7		1
10318	o-Terphenyl	84-15-1	8.7		1.6	3.7		1
10318	p-Terphenyl	92-94-4	8.6		1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.88	J	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	1.8		0.42	1.3		1
10199	EFH (C21-C30)	n.a.	9.4		0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	18		0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.75	J	0.42	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,700		6.16	20.4		1
07914	Boron	7440-42-8	203		0.366	5.09		1
01650	Calcium	7440-70-2	4,570		2.54	20.4		1
01654	Iron	7439-89-6	19,100		2.66	20.4		1
01656	Lithium	7439-93-2	126		0.63	2.0		1
01657	Magnesium	7439-95-4	4,770		0.448	10.2		1
06958	Manganese	7439-96-5	308		0.0366	0.509		1
10145	Phosphorus	7723-14-0	449		0.356	10.2		1
01662	Potassium	7440-09-7	3,940		11.5	50.9		1
01667	Sodium	7440-23-5	1,040		6.06	102		1
07968	Strontium	7440-24-6	118		0.0254	0.509		1
06969	Tin	7440-31-5	360		0.326	10.2		1
06970	Titanium	7440-32-6	1,290		0.0737	1.04		1
10146	Zirconium	7440-67-7	101		0.468	5.09		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.460		0.0746	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.97		0.0806	0.403		2
06126	Barium	7440-39-3	92.1		0.107	0.403		2
06127	Beryllium	7440-41-7	1.19		0.0161	0.101		2

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Sample Description: **SL-103-SA7-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421301
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5612 SDG#: DE256-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06128	Cadmium	7440-43-9	1.08	0.0443	0.101		2
06131	Chromium	7440-47-3	23.5	0.121	0.403		2
06132	Cobalt	7440-48-4	51.1	0.0202	0.101		2
06133	Copper	7440-50-8	16.1	0.0806	0.403		2
06135	Lead	7439-92-1	7.67	0.0103	0.202		2
06138	Molybdenum	7439-98-7	9.85	0.0504	0.101		2
06139	Nickel	7440-02-0	18.7	0.101	0.403		2
06141	Selenium	7782-49-2	2.10	0.0585	0.403		2
06142	Silver	7440-22-4	9.79	0.0143	0.101		2
06145	Thallium	7440-28-0	0.615	0.0302	0.101		2
06148	Vanadium	7440-62-2	39.4	0.0222	0.101		2
06149	Zinc	7440-66-6	61.3	0.564	3.02		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.173	0.0073	0.104		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	4.6	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-103-SA7-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11280SLB026	10/11/2011 10:36	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11279SLC026	10/13/2011 13:30	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11279SLD026	10/12/2011 00:11	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11280SLB026	10/07/2011 17:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11279SLD026	10/06/2011 23:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11279SLC026	10/06/2011 23:15	Karen L Beyer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11274A34A	10/01/2011 12:48	Laura M Krieger	24.18
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201127125677	09/28/2011 17:16	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201127125677	09/28/2011 17:17	Lois E Hiltz	n.a.
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112740006A	10/05/2011 20:27	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112790038A	10/20/2011 03:45	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112790038A	10/07/2011 11:15	Kelli M Barto	1

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Sample Description: **SL-103-SA7-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421301
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5612 SDG#: DE256-12MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112740006A	10/03/2011 19:00	Wanda F Oswald	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112760023A	10/04/2011 23:43	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112770027A	10/05/2011 02:13	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112790037A	10/11/2011 02:52	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112790036A	10/09/2011 02:51	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112790036A	10/07/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112790037A	10/07/2011 07:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112760023A	10/04/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112770027A	10/04/2011 17:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112725708001	10/11/2011 01:37	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112725708001	10/10/2011 08:28	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112725708001	10/10/2011 08:28	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112725708001	10/10/2011 08:28	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112725708001	10/10/2011 08:28	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112725708001	10/10/2011 08:28	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112725708001	10/10/2011 08:28	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112725708001	10/10/2011 08:28	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112725708001	10/10/2011 08:28	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112725708001	10/10/2011 08:28	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112725708001	10/10/2011 08:28	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112725708001	10/10/2011 08:28	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112845708002	10/12/2011 07:39	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112725708001	10/10/2011 08:28	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112721026001A	09/29/2011 22:14	David K Beck	2
06125	Arsenic	SW-846 6020	1	112721026001A	09/29/2011 22:14	David K Beck	2
06126	Barium	SW-846 6020	1	112721026001D	09/29/2011 22:14	David K Beck	2
06127	Beryllium	SW-846 6020	1	112721026001A	09/29/2011 22:14	David K Beck	2
06128	Cadmium	SW-846 6020	1	112721026001A	09/29/2011 22:14	David K Beck	2
06131	Chromium	SW-846 6020	1	112721026001A	09/29/2011 22:14	David K Beck	2
06132	Cobalt	SW-846 6020	1	112721026001A	09/29/2011 22:14	David K Beck	2
06133	Copper	SW-846 6020	1	112721026001A	09/29/2011 22:14	David K Beck	2
06135	Lead	SW-846 6020	1	112721026001A	09/29/2011 22:14	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112721026001C	09/29/2011 22:14	David K Beck	2
06139	Nickel	SW-846 6020	1	112721026001A	09/29/2011 22:14	David K Beck	2
06141	Selenium	SW-846 6020	1	112721026001B	09/29/2011 22:14	David K Beck	2
06142	Silver	SW-846 6020	1	112721026001A	09/29/2011 22:14	David K Beck	2
06145	Thallium	SW-846 6020	1	112721026001A	09/29/2011 22:14	David K Beck	2
06148	Vanadium	SW-846 6020	1	112721026001A	09/29/2011 22:14	David K Beck	2
06149	Zinc	SW-846 6020	1	112721026001A	09/29/2011 22:14	David K Beck	2
00159	Mercury	SW-846 7471A	1	112725711001	09/29/2011 19:10	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708001	09/29/2011 11:57	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112845708002	10/11/2011 22:17	Annamaria Stipkovits	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-103-SA7-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421301
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5612 SDG#: DE256-12MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026001	09/29/2011 12:19	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711001	09/29/2011 12:59	James L Mertz	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162401A	10/05/2011 19:53	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-103-SA7-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421302
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5612 SDG#: DE256-12DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,400		6.28	20.8		1
07914	Boron	7440-42-8	6.55		0.374	5.19		1
01650	Calcium	7440-70-2	3,500		2.59	20.8		1
01654	Iron	7439-89-6	18,700		2.71	20.8		1
01656	Lithium	7439-93-2	25.1		0.64	2.1		1
01657	Magnesium	7439-95-4	4,440		0.457	10.4		1
06958	Manganese	7439-96-5	248		0.0374	0.519		1
10145	Phosphorus	7723-14-0	329		0.363	10.4		1
01662	Potassium	7440-09-7	2,870		11.7	51.9		1
01667	Sodium	7440-23-5	95.9	J	6.18	104		1
07968	Strontium	7440-24-6	16.2		0.0259	0.519		1
06969	Tin	7440-31-5	0.788	J	0.332	10.4		1
06970	Titanium	7440-32-6	1,070		0.0730	1.03		1
10146	Zirconium	7440-67-7	2.12	J	0.477	5.19		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0760	U	0.0760	0.206		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.78		0.0822	0.411		2
06126	Barium	7440-39-3	80.0		0.109	0.411		2
06127	Beryllium	7440-41-7	0.469		0.0164	0.103		2
06128	Cadmium	7440-43-9	0.0789	J	0.0452	0.103		2
06131	Chromium	7440-47-3	14.1		0.123	0.411		2
06132	Cobalt	7440-48-4	4.82		0.0206	0.103		2
06133	Copper	7440-50-8	6.77		0.0822	0.411		2
06135	Lead	7439-92-1	4.50		0.0105	0.206		2
06138	Molybdenum	7439-98-7	0.420		0.0514	0.103		2
06139	Nickel	7440-02-0	9.16		0.103	0.411		2
06141	Selenium	7782-49-2	0.105	J	0.0596	0.411		2
06142	Silver	7440-22-4	0.0240	J	0.0146	0.103		2
06145	Thallium	7440-28-0	0.223		0.0308	0.103		2
06148	Vanadium	7440-62-2	29.1		0.0226	0.103		2
06149	Zinc	7440-66-6	55.2		0.575	3.08		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	U	0.0073	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.5		0.84	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.84	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.65	J	0.21	1.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-103-SA7-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421302
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5612 SDG#: DE256-12DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.47	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11626	28a Moisture Content by 160.3	n.a.	4.8	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						
11625	Moisture Content by 160.3	n.a.	4.6	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-103-SA7-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	112725708001	10/11/2011 01:29	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112725708001	10/10/2011 08:20	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112725708001	10/10/2011 08:20	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112725708001	10/10/2011 08:20	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112725708001	10/10/2011 08:20	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112725708001	10/10/2011 08:20	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112725708001	10/10/2011 08:20	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112725708001	10/10/2011 08:20	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112725708001	10/10/2011 08:20	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112725708001	10/10/2011 08:20	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112725708001	10/10/2011 08:20	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112725708001	10/10/2011 08:20	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112845708002	10/12/2011 07:31	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112725708001	10/10/2011 08:20	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112721026001A	09/29/2011 22:08	David K Beck	2
06125	Arsenic	SW-846 6020	1	112721026001A	09/29/2011 22:08	David K Beck	2
06126	Barium	SW-846 6020	1	112721026001D	09/29/2011 22:08	David K Beck	2
06127	Beryllium	SW-846 6020	1	112721026001A	09/29/2011 22:08	David K Beck	2
06128	Cadmium	SW-846 6020	1	112721026001A	09/29/2011 22:08	David K Beck	2
06131	Chromium	SW-846 6020	1	112721026001A	09/29/2011 22:08	David K Beck	2
06132	Cobalt	SW-846 6020	1	112721026001A	09/29/2011 22:08	David K Beck	2
06133	Copper	SW-846 6020	1	112721026001A	09/29/2011 22:08	David K Beck	2
06135	Lead	SW-846 6020	1	112721026001A	09/29/2011 22:08	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112721026001C	09/29/2011 22:08	David K Beck	2
06139	Nickel	SW-846 6020	1	112721026001A	09/29/2011 22:08	David K Beck	2

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: SL-103-SA7-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421302
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5612 SDG#: DE256-12DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06141	Selenium	SW-846 6020	1	112721026001B	09/29/2011 22:08	David K Beck	2
06142	Silver	SW-846 6020	1	112721026001A	09/29/2011 22:08	David K Beck	2
06145	Thallium	SW-846 6020	1	112721026001A	09/29/2011 22:08	David K Beck	2
06148	Vanadium	SW-846 6020	1	112721026001A	09/29/2011 22:08	David K Beck	2
06149	Zinc	SW-846 6020	1	112721026001A	09/29/2011 22:08	David K Beck	2
00159	Mercury	SW-846 7471A	1	112725711001	09/29/2011 19:08	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708001	09/29/2011 11:57	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112845708002	10/11/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026001	09/29/2011 12:19	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711001	09/29/2011 12:59	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11279621201B	10/07/2011 19:41	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11279621201B	10/07/2011 19:41	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621203B	10/06/2011 13:04	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11280243201A	10/08/2011 18:38	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11279621201B	10/06/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621203B	10/04/2011 09:25	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11284039402B	10/11/2011 13:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11280243201A	10/07/2011 10:20	Daniel S Smith	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11278162401A	10/05/2011 19:53	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162401A	10/05/2011 19:53	Scott W Freisher	1

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Analysis Report

Sample Description: SL-103-SA7-SB-4.0-5.0RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421303
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5612 SDG#: DE256-12RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.5		1
10225	PCB-1016	12674-11-2	2.4		0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	2.7		0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	540		100	520		1
10501	Isopropanol	67-63-0	580		100	520		1
10501	Methanol	67-56-1	620		100	520		1
	The sample was analyzed outside the client specified 7 day hold time; however it was analyzed within the method hold time of 14 days. Since this sample was used as the reporting limit matrix spike, there would be no impact to the data.							
GC Petroleum Hydrocarbons	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	J	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.7	J	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.7	J	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	1.1	J	0.42	1.3		1
10199	EFH (C21-C30)	n.a.	6.1		0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	14		0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.6		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Analysis Report

Sample Description: **SL-103-SA7-SB-4.0-5.0RL MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421303
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5612 SDG#: DE256-12RLR

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112790038A	10/20/2011 05:17	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112790038A	10/07/2011 11:15	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112760023A	10/05/2011 00:00	Elizabeth J Marin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112790037A	10/11/2011 03:19	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112790036A	10/11/2011 18:07	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112790036A	10/07/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112790037A	10/07/2011 07:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112760023A	10/04/2011 17:00	Elizabeth J Marin	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162401A	10/05/2011 19:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-103-SA7-SB-4.0-5.0RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421304
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5612 SDG#: DE256-12RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	1.9		0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1
10225	PCB-1260	11096-82-5	2.2		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	560		100	500		1
10501	Isopropanol	67-63-0	570		100	500		1
10501	Methanol	67-56-1	630		100	500		1
	The sample was analyzed outside the client specified 7 day hold time; however it was analyzed within the method hold time of 14 days. Since this sample was used as the reporting limit laboratory control spike, there would be no impact to the data.							
GC Petroleum Hydrocarbons	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.5	J	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.7	J	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	J	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.43	J	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	0.72	J	0.40	1.2		1
10199	EFH (C21-C30)	n.a.	1.2	J	0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	1.8		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.40	U	0.40	1.2		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **SL-103-SA7-SB-4.0-5.0RL LCS Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421304
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5612 SDG#: DE256-12RLQ

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112790038A	10/20/2011 05:36	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112790038A	10/07/2011 11:15	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112760023A	10/05/2011 00:16	Elizabeth J Marin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112790037A	10/11/2011 03:47	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112790036A	10/08/2011 19:42	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112790036A	10/07/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112790037A	10/07/2011 07:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112760023A	10/04/2011 17:00	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-103-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-9.0-10.0

LLI Sample # SW 6421305
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:55

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5613 SDG#: DE256-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	182	U	182	364		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	2-butoxy-Ethanol	111-76-2	1,800	U	1,800	1,800		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Sample Description: **SL-103-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-9.0-10.0

LLI Sample # SW 6421305
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:55

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5613 SDG#: DE256-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	2-phenoxy-Ethanol	122-99-6	1,800	U	1,800	1,800		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.91	J	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		22.69
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	650	U	650	1,600		1

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Sample Description: SL-103-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-9.0-10.0

LLI Sample # SW 6421305
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:55

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5613 SDG#: DE256-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	6.2		0.42	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	J	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	6.7		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	22		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,400		6.41	21.2		1
07914	Boron	7440-42-8	6.55		0.381	5.29		1
01650	Calcium	7440-70-2	3,320		2.65	21.2		1
01654	Iron	7439-89-6	18,900		2.76	21.2		1
01656	Lithium	7439-93-2	25.3		0.66	2.1		1
01657	Magnesium	7439-95-4	4,600		0.466	10.6		1
06958	Manganese	7439-96-5	256		0.0381	0.529		1
10145	Phosphorus	7723-14-0	327		0.371	10.6		1

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Sample Description: **SL-103-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-9.0-10.0

LLI Sample # SW 6421305
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:55

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E5613 SDG#: DE256-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	2,810		12.0	52.9		1
01667	Sodium	7440-23-5	149		6.30	106		1
07968	Strontium	7440-24-6	14.7		0.0265	0.529		1
06969	Tin	7440-31-5	0.721	J	0.339	10.6		1
06970	Titanium	7440-32-6	1,150		0.0759	1.07		1
10146	Zirconium	7440-67-7	0.905	J	0.487	5.29		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0807	U	0.0807	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.83		0.0872	0.436		2
06126	Barium	7440-39-3	73.8		0.116	0.436		2
06127	Beryllium	7440-41-7	0.475		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.0962	J	0.0480	0.109		2
06131	Chromium	7440-47-3	14.1		0.131	0.436		2
06132	Cobalt	7440-48-4	4.55		0.0218	0.109		2
06133	Copper	7440-50-8	6.71		0.0872	0.436		2
06135	Lead	7439-92-1	4.34		0.0111	0.218		2
06138	Molybdenum	7439-98-7	0.344		0.0545	0.109		2
06139	Nickel	7440-02-0	8.78		0.109	0.436		2
06141	Selenium	7782-49-2	0.113	J	0.0632	0.436		2
06142	Silver	7440-22-4	0.0182	J	0.0155	0.109		2
06145	Thallium	7440-28-0	0.233		0.0327	0.109		2
06148	Vanadium	7440-62-2	29.2		0.0240	0.109		2
06149	Zinc	7440-66-6	61.4		0.611	3.27		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	U	0.0071	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0		0.88	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.51		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.3		0.50	0.50		1

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Sample Description: **SL-103-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-9.0-10.0

LLI Sample # SW 6421305
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:55

Submitted: 09/28/2011 09:00
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E5613 SDG#: DE256-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-103-SA7-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11280SLB026	10/11/2011 10:55	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11279SLC026	10/13/2011 13:55	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11279SLD026	10/12/2011 09:52	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11280SLB026	10/07/2011 17:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11279SLD026	10/06/2011 23:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11279SLC026	10/06/2011 23:15	Karen L Beyer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11274A34A	10/01/2011 13:24	Laura M Krieger	22.69
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201127125677	09/28/2011 17:19	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201127125677	09/28/2011 17:20	Lois E Hiltz	n.a.
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112740006A	10/05/2011 20:36	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112790038A	10/20/2011 05:54	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112790038A	10/07/2011 11:15	Kelli M Barto	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112740006A	10/03/2011 19:00	Wanda F Oswald	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112760023A	10/04/2011 21:32	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112770027A	10/05/2011 02:25	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112790037A	10/11/2011 04:41	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112790036A	10/08/2011 22:53	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112790036A	10/07/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112790037A	10/07/2011 07:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112760023A	10/04/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112770027A	10/04/2011 17:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112725708001	10/11/2011 02:46	John W Yanzuk II	1

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Sample Description: **SL-103-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-9.0-10.0

LLI Sample # SW 6421305
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:55

Submitted: 09/28/2011 09:00
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E5613 SDG#: DE256-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	112725708001	10/10/2011 09:38	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112725708001	10/10/2011 09:38	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112725708001	10/10/2011 09:38	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112725708001	10/10/2011 09:38	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112725708001	10/10/2011 09:38	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112725708001	10/10/2011 09:38	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112725708001	10/10/2011 09:38	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112725708001	10/10/2011 09:38	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112725708001	10/10/2011 09:38	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112725708001	10/10/2011 09:38	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112725708001	10/10/2011 09:38	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112845708002	10/12/2011 08:41	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112725708001	10/10/2011 09:38	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112721026001A	09/29/2011 23:00	David K Beck	2
06125	Arsenic	SW-846 6020	1	112721026001A	09/29/2011 23:00	David K Beck	2
06126	Barium	SW-846 6020	1	112721026001D	09/29/2011 23:00	David K Beck	2
06127	Beryllium	SW-846 6020	1	112721026001A	09/29/2011 23:00	David K Beck	2
06128	Cadmium	SW-846 6020	1	112721026001A	09/29/2011 23:00	David K Beck	2
06131	Chromium	SW-846 6020	1	112721026001A	09/29/2011 23:00	David K Beck	2
06132	Cobalt	SW-846 6020	1	112721026001A	09/29/2011 23:00	David K Beck	2
06133	Copper	SW-846 6020	1	112721026001A	09/29/2011 23:00	David K Beck	2
06135	Lead	SW-846 6020	1	112721026001A	09/29/2011 23:00	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112721026001C	09/29/2011 23:00	David K Beck	2
06139	Nickel	SW-846 6020	1	112721026001A	09/29/2011 23:00	David K Beck	2
06141	Selenium	SW-846 6020	1	112721026001B	09/29/2011 23:00	David K Beck	2
06142	Silver	SW-846 6020	1	112721026001A	09/29/2011 23:00	David K Beck	2
06145	Thallium	SW-846 6020	1	112721026001A	09/29/2011 23:00	David K Beck	2
06148	Vanadium	SW-846 6020	1	112721026001A	09/29/2011 23:00	David K Beck	2
06149	Zinc	SW-846 6020	1	112721026001A	09/29/2011 23:00	David K Beck	2
00159	Mercury	SW-846 7471A	1	112725711001	09/29/2011 19:12	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708001	09/29/2011 11:57	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112845708002	10/11/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026001	09/29/2011 12:19	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711001	09/29/2011 12:59	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11279621201B	10/07/2011 20:19	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11279621201B	10/07/2011 20:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621203B	10/06/2011 14:37	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11280243201A	10/08/2011 18:59	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11279621201B	10/06/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621203B	10/04/2011 09:25	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11284039402B	10/11/2011 13:00	Michele L Graham	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-103-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-9.0-10.0

LLI Sample # SW 6421305
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:55

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5613 SDG#: DE256-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11280243201A	10/07/2011 10:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162401B	10/05/2011 19:53	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-104-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA7-SB-4.0-5.0

LLI Sample # SW 6421306
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 12:35

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5614 SDG#: DE256-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.4	U	17.4	34.8		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	2-butoxy-Ethanol	111-76-2	1,700	U	1,700	1,700		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-104-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-104-SA7-SB-4.0-5.0

LLI Sample # SW 6421306
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 12:35

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5614 SDG#: DE256-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	2-phenoxy-Ethanol	122-99-6	1,700	U	1,700	1,700		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.75	J	0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.2	J	0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19		1
10138	Chrysene	218-01-9	0.76	J	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.3	J	6.2	19		1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19		1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7		1
10138	Pyrene	129-00-0	0.98	J	0.69	1.7		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	630	U	630	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-104-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-104-SA7-SB-4.0-5.0

LLI Sample # SW 6421306
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 12:35

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5614 SDG#: DE256-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8		1
10225	PCB-1260	11096-82-5	0.90	J	0.40	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.6		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.6		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	0.53	J	0.42	1.3		1
10199	EFH (C21-C30)	n.a.	6.1		0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	20		0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,300		6.14	20.3		1
07914	Boron	7440-42-8	6.29		0.365	5.07		1
01650	Calcium	7440-70-2	3,870		2.54	20.3		1
01654	Iron	7439-89-6	18,200		2.65	20.3		1
01656	Lithium	7439-93-2	24.6		0.63	2.0		1
01657	Magnesium	7439-95-4	4,410		0.446	10.1		1
06958	Manganese	7439-96-5	258		0.0365	0.507		1
10145	Phosphorus	7723-14-0	324		0.355	10.1		1
01662	Potassium	7440-09-7	2,790		11.5	50.7		1
01667	Sodium	7440-23-5	82.2	J	6.04	101		1
07968	Strontium	7440-24-6	17.4		0.0254	0.507		1
06969	Tin	7440-31-5	0.751	J	0.325	10.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-104-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-104-SA7-SB-4.0-5.0

LLI Sample # SW 6421306
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 12:35

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5614 SDG#: DE256-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06970	Titanium	7440-32-6	997	0.0735	1.03		1
10146	Zirconium	7440-67-7	1.40 J	0.467	5.07		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0751 U	0.0751	0.203		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.87	0.0812	0.406		2
06126	Barium	7440-39-3	77.1	0.108	0.406		2
06127	Beryllium	7440-41-7	0.476	0.0162	0.101		2
06128	Cadmium	7440-43-9	0.0978 J	0.0446	0.101		2
06131	Chromium	7440-47-3	14.8	0.122	0.406		2
06132	Cobalt	7440-48-4	4.49	0.0203	0.101		2
06133	Copper	7440-50-8	6.59	0.0812	0.406		2
06135	Lead	7439-92-1	4.47	0.0103	0.203		2
06138	Molybdenum	7439-98-7	0.367	0.0507	0.101		2
06139	Nickel	7440-02-0	9.02	0.101	0.406		2
06141	Selenium	7782-49-2	0.135 J	0.0588	0.406		2
06142	Silver	7440-22-4	0.0200 J	0.0144	0.101		2
06145	Thallium	7440-28-0	0.255	0.0304	0.101		2
06148	Vanadium	7440-62-2	30.5	0.0223	0.101		2
06149	Zinc	7440-66-6	51.8	0.568	3.04		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0069 U	0.0069	0.0976		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5	0.84	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.84 U	0.84	1.6		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4 U	9.4	31.3		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	4.4	0.21	1.0		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.32	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-104-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA7-SB-4.0-5.0

LLI Sample # SW 6421306
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 12:35

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5614 SDG#: DE256-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11280SLB026	10/10/2011 16:46	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11279SLC026	10/13/2011 14:20	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11279SLD026	10/12/2011 10:25	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11280SLB026	10/07/2011 17:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11279SLD026	10/06/2011 23:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11279SLC026	10/06/2011 23:15	Karen L Beyer	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112740006A	10/05/2011 20:55	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112790038A	10/20/2011 06:13	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112790038A	10/07/2011 11:15	Kelli M Barto	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112740006A	10/03/2011 19:00	Wanda F Oswald	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112760023A	10/04/2011 21:48	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112770027A	10/05/2011 02:38	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112790037A	10/11/2011 05:09	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112790036A	10/09/2011 03:15	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112790036A	10/07/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112790037A	10/07/2011 07:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112760023A	10/04/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112770027A	10/04/2011 17:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112725708001	10/11/2011 02:51	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112725708001	10/10/2011 09:42	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112725708001	10/10/2011 09:42	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112725708001	10/10/2011 09:42	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112725708001	10/10/2011 09:42	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112725708001	10/10/2011 09:42	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112725708001	10/10/2011 09:42	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112725708001	10/10/2011 09:42	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112725708001	10/10/2011 09:42	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112725708001	10/10/2011 09:42	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112725708001	10/10/2011 09:42	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112725708001	10/10/2011 09:42	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112845708002	10/12/2011 08:52	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112725708001	10/10/2011 09:42	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112721026001A	09/29/2011 23:10	David K Beck	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-104-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA7-SB-4.0-5.0

LLI Sample # SW 6421306
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 12:35

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5614 SDG#: DE256-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	112721026001A	09/29/2011 23:10	David K Beck	2
06126	Barium	SW-846 6020	1	112721026001D	09/29/2011 23:10	David K Beck	2
06127	Beryllium	SW-846 6020	1	112721026001A	09/29/2011 23:10	David K Beck	2
06128	Cadmium	SW-846 6020	1	112721026001A	09/29/2011 23:10	David K Beck	2
06131	Chromium	SW-846 6020	1	112721026001A	09/29/2011 23:10	David K Beck	2
06132	Cobalt	SW-846 6020	1	112721026001A	09/29/2011 23:10	David K Beck	2
06133	Copper	SW-846 6020	1	112721026001A	09/29/2011 23:10	David K Beck	2
06135	Lead	SW-846 6020	1	112721026001A	09/29/2011 23:10	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112721026001C	09/29/2011 23:10	David K Beck	2
06139	Nickel	SW-846 6020	1	112721026001A	09/29/2011 23:10	David K Beck	2
06141	Selenium	SW-846 6020	1	112721026001B	09/29/2011 23:10	David K Beck	2
06142	Silver	SW-846 6020	1	112721026001A	09/29/2011 23:10	David K Beck	2
06145	Thallium	SW-846 6020	1	112721026001A	09/29/2011 23:10	David K Beck	2
06148	Vanadium	SW-846 6020	1	112721026001A	09/29/2011 23:10	David K Beck	2
06149	Zinc	SW-846 6020	1	112721026001A	09/29/2011 23:10	David K Beck	2
00159	Mercury	SW-846 7471A	1	112725711001	09/29/2011 19:13	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708001	09/29/2011 11:57	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112845708002	10/11/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026001	09/29/2011 12:19	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711001	09/29/2011 12:59	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11279621201B	10/07/2011 20:31	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11279621201B	10/07/2011 20:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621203B	10/06/2011 15:00	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11280243201A	10/08/2011 19:28	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11279621201B	10/06/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621203B	10/04/2011 09:25	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11284039402B	10/11/2011 13:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11280243201A	10/07/2011 10:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162401B	10/05/2011 19:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: SL-104-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA7-SB-9.0-10.0

LLI Sample # SW 6421307
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 12:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5615 SDG#: DE256-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	177	U	177	354		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	2-butoxy-Ethanol	111-76-2	1,800	U	1,800	1,800		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	70	U	70	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	70	U	70	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-104-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-104-SA7-SB-9.0-10.0

LLI Sample # SW 6421307
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 12:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5615 SDG#: DE256-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	2-phenoxy-Ethanol	122-99-6	1,800	U	1,800	1,800		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	J	0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.3	U	6.3	19		1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.7		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.7		1
10138	Pyrene	129-00-0	0.70	U	0.70	1.7		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	640	U	640	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-104-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-104-SA7-SB-9.0-10.0

LLI Sample # SW 6421307
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 12:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5615 SDG#: DE256-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.47	J	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C21-C30)	n.a.	2.4		0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	5.9		0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,500		6.42	21.2		1
07914	Boron	7440-42-8	6.58		0.382	5.31		1
01650	Calcium	7440-70-2	4,070		2.65	21.2		1
01654	Iron	7439-89-6	18,300		2.77	21.2		1
01656	Lithium	7439-93-2	22.9		0.66	2.1		1
01657	Magnesium	7439-95-4	4,150		0.467	10.6		1
06958	Manganese	7439-96-5	245		0.0382	0.531		1
10145	Phosphorus	7723-14-0	315		0.372	10.6		1
01662	Potassium	7440-09-7	2,550		12.0	53.1		1
01667	Sodium	7440-23-5	150		6.32	106		1
07968	Strontium	7440-24-6	18.2		0.0265	0.531		1
06969	Tin	7440-31-5	0.916	J	0.340	10.6		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-104-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA7-SB-9.0-10.0

LLI Sample # SW 6421307
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 12:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5615 SDG#: DE256-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06970	Titanium	7440-32-6	997		0.0746	1.05		1
10146	Zirconium	7440-67-7	1.06	J	0.488	5.31		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0778	U	0.0778	0.210		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.12		0.0841	0.420		2
06126	Barium	7440-39-3	74.3		0.111	0.420		2
06127	Beryllium	7440-41-7	0.495		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.102	J	0.0462	0.105		2
06131	Chromium	7440-47-3	13.8		0.126	0.420		2
06132	Cobalt	7440-48-4	4.47		0.0210	0.105		2
06133	Copper	7440-50-8	6.36		0.0841	0.420		2
06135	Lead	7439-92-1	5.33		0.0107	0.210		2
06138	Molybdenum	7439-98-7	0.343		0.0526	0.105		2
06139	Nickel	7440-02-0	8.64		0.105	0.420		2
06141	Selenium	7782-49-2	0.101	J	0.0610	0.420		2
06142	Silver	7440-22-4	0.0221	J	0.0149	0.105		2
06145	Thallium	7440-28-0	0.262		0.0315	0.105		2
06148	Vanadium	7440-62-2	28.3		0.0231	0.105		2
06149	Zinc	7440-66-6	62.1		0.589	3.15		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	U	0.0073	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.3		0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.8		0.86	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	31.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	4.3		0.21	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.07		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.8		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-104-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-104-SA7-SB-9.0-10.0

LLI Sample # SW 6421307
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 12:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5615 SDG#: DE256-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11280SLB026	10/11/2011 11:14	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11279SLC026	10/13/2011 14:46	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11279SLD026	10/12/2011 10:57	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11280SLB026	10/07/2011 17:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11279SLD026	10/06/2011 23:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11279SLC026	10/06/2011 23:15	Karen L Beyer	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112740006A	10/05/2011 21:05	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112790038A	10/20/2011 06:50	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112790038A	10/07/2011 11:15	Kelli M Barto	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112740006A	10/03/2011 19:00	Wanda F Oswald	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112760023A	10/04/2011 22:05	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112770027A	10/05/2011 02:51	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112790037A	10/11/2011 05:36	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112790036A	10/11/2011 17:43	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112790036A	10/07/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112790037A	10/07/2011 07:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112760023A	10/04/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112770027A	10/04/2011 17:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112725708001	10/11/2011 02:55	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112725708001	10/10/2011 09:46	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112725708001	10/10/2011 09:46	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112725708001	10/10/2011 09:46	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112725708001	10/10/2011 09:46	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112725708001	10/10/2011 09:46	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112725708001	10/10/2011 09:46	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112725708001	10/10/2011 09:46	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112725708001	10/10/2011 09:46	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112725708001	10/10/2011 09:46	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112725708001	10/10/2011 09:46	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112725708001	10/10/2011 09:46	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112845708002	10/12/2011 08:56	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112725708001	10/10/2011 09:46	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112721026001A	09/29/2011 23:13	David K Beck	2

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-104-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-104-SA7-SB-9.0-10.0

LLI Sample # SW 6421307
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 12:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5615 SDG#: DE256-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	112721026001A	09/29/2011 23:13	David K Beck	2
06126	Barium	SW-846 6020	1	112721026001D	09/29/2011 23:13	David K Beck	2
06127	Beryllium	SW-846 6020	1	112721026001A	09/29/2011 23:13	David K Beck	2
06128	Cadmium	SW-846 6020	1	112721026001A	09/29/2011 23:13	David K Beck	2
06131	Chromium	SW-846 6020	1	112721026001A	09/29/2011 23:13	David K Beck	2
06132	Cobalt	SW-846 6020	1	112721026001A	09/29/2011 23:13	David K Beck	2
06133	Copper	SW-846 6020	1	112721026001A	09/29/2011 23:13	David K Beck	2
06135	Lead	SW-846 6020	1	112721026001A	09/29/2011 23:13	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112721026001C	09/29/2011 23:13	David K Beck	2
06139	Nickel	SW-846 6020	1	112721026001A	09/29/2011 23:13	David K Beck	2
06141	Selenium	SW-846 6020	1	112721026001B	09/29/2011 23:13	David K Beck	2
06142	Silver	SW-846 6020	1	112721026001A	09/29/2011 23:13	David K Beck	2
06145	Thallium	SW-846 6020	1	112721026001A	09/29/2011 23:13	David K Beck	2
06148	Vanadium	SW-846 6020	1	112721026001A	09/29/2011 23:13	David K Beck	2
06149	Zinc	SW-846 6020	1	112721026001A	09/29/2011 23:13	David K Beck	2
00159	Mercury	SW-846 7471A	1	112725711001	09/29/2011 19:14	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708001	09/29/2011 11:57	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112845708002	10/11/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026001	09/29/2011 12:19	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711001	09/29/2011 12:59	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11279621201B	10/07/2011 21:09	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11279621201B	10/07/2011 21:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621203B	10/06/2011 15:23	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11280243201A	10/08/2011 19:50	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11279621201B	10/06/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621203B	10/04/2011 09:25	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11284039402B	10/11/2011 13:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11280243201A	10/07/2011 10:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162401B	10/05/2011 19:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-105-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA7-SB-4.0-5.0

LLI Sample # SW 6421308
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 14:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5616 SDG#: DE256-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.2	U	17.2	34.4		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	2-butoxy-Ethanol	111-76-2	1,700	U	1,700	1,700		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-105-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-105-SA7-SB-4.0-5.0

LLI Sample # SW 6421308
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 14:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5616 SDG#: DE256-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	2-phenoxy-Ethanol	122-99-6	1,700	U	1,700	1,700		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	2.1		0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.87	J	0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19		1
10138	Chrysene	218-01-9	1.5	J	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.2	U	6.2	19		1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19		1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7		1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		26.32
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	620	U	620	1,500		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-105-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-105-SA7-SB-4.0-5.0

LLI Sample # SW 6421308
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 14:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5616 SDG#: DE256-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	0.75	J	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	0.45	J	0.41	1.2		1
10199	EFH (C21-C30)	n.a.	6.6		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	22		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.41	U	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,200		6.19	20.5		1
07914	Boron	7440-42-8	6.25		0.368	5.11		1
01650	Calcium	7440-70-2	3,260		2.56	20.5		1
01654	Iron	7439-89-6	17,700		2.67	20.5		1
01656	Lithium	7439-93-2	23.9		0.63	2.0		1
01657	Magnesium	7439-95-4	4,190		0.450	10.2		1
06958	Manganese	7439-96-5	243		0.0368	0.511		1
10145	Phosphorus	7723-14-0	354		0.358	10.2		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-105-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-105-SA7-SB-4.0-5.0

LLI Sample # SW 6421308
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 14:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5616 SDG#: DE256-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	2,680		11.6	51.1		1
01667	Sodium	7440-23-5	71.3	J	6.09	102		1
07968	Strontium	7440-24-6	14.1		0.0256	0.511		1
06969	Tin	7440-31-5	1.02	J	0.327	10.2		1
06970	Titanium	7440-32-6	1,100		0.0712	1.00		1
10146	Zirconium	7440-67-7	0.965	J	0.471	5.11		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0764	U	0.0764	0.207		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.58		0.0826	0.413		2
06126	Barium	7440-39-3	71.9		0.110	0.413		2
06127	Beryllium	7440-41-7	0.430		0.0165	0.103		2
06128	Cadmium	7440-43-9	0.0921	J	0.0455	0.103		2
06131	Chromium	7440-47-3	13.9		0.124	0.413		2
06132	Cobalt	7440-48-4	4.56		0.0207	0.103		2
06133	Copper	7440-50-8	6.28		0.0826	0.413		2
06135	Lead	7439-92-1	4.27		0.0105	0.207		2
06138	Molybdenum	7439-98-7	0.357		0.0517	0.103		2
06139	Nickel	7440-02-0	8.62		0.103	0.413		2
06141	Selenium	7782-49-2	0.142	J	0.0599	0.413		2
06142	Silver	7440-22-4	0.0154	J	0.0147	0.103		2
06145	Thallium	7440-28-0	0.236		0.0310	0.103		2
06148	Vanadium	7440-62-2	28.6		0.0227	0.103		2
06149	Zinc	7440-66-6	51.0		0.579	3.10		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0067	U	0.0067	0.0956		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.81	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.96	J	0.81	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	4.4		0.21	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.27		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	3.2		0.50	0.50		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-105-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-105-SA7-SB-4.0-5.0

LLI Sample # SW 6421308
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 14:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5616 SDG#: DE256-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-105-SA7-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11280SLB026	10/10/2011 17:25	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11279SLC026	10/13/2011 15:11	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11279SLD026	10/12/2011 11:29	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11280SLB026	10/07/2011 17:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11279SLD026	10/06/2011 23:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11279SLC026	10/06/2011 23:15	Karen L Beyer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11274A34A	10/01/2011 13:57	Laura M Krieger	26.32
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201127125677	09/28/2011 17:24	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201127125677	09/28/2011 17:25	Lois E Hiltz	n.a.
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112740006A	10/05/2011 21:15	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112790038A	10/20/2011 07:09	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112790038A	10/07/2011 11:15	Kelli M Barto	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112740006A	10/03/2011 19:00	Wanda F Oswald	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112760023A	10/04/2011 22:21	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112770027A	10/05/2011 03:04	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112790037A	10/11/2011 06:03	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112790036A	10/08/2011 23:17	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112790036A	10/07/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112790037A	10/07/2011 07:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112760023A	10/04/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112770027A	10/04/2011 17:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112725708001	10/11/2011 02:59	John W Yanzuk II	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-105-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-105-SA7-SB-4.0-5.0

LLI Sample # SW 6421308
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 14:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5616 SDG#: DE256-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	112725708001	10/10/2011 09:50	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112725708001	10/10/2011 09:50	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112725708001	10/10/2011 09:50	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112725708001	10/10/2011 09:50	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112725708001	10/10/2011 09:50	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112725708001	10/10/2011 09:50	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112725708001	10/10/2011 09:50	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112725708001	10/10/2011 09:50	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112725708001	10/10/2011 09:50	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112725708001	10/10/2011 09:50	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112725708001	10/10/2011 09:50	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112845708002	10/12/2011 09:00	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112725708001	10/10/2011 09:50	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112721026001A	09/29/2011 23:16	David K Beck	2
06125	Arsenic	SW-846 6020	1	112721026001A	09/29/2011 23:16	David K Beck	2
06126	Barium	SW-846 6020	1	112721026001D	09/29/2011 23:16	David K Beck	2
06127	Beryllium	SW-846 6020	1	112721026001A	09/29/2011 23:16	David K Beck	2
06128	Cadmium	SW-846 6020	1	112721026001A	09/29/2011 23:16	David K Beck	2
06131	Chromium	SW-846 6020	1	112721026001A	09/29/2011 23:16	David K Beck	2
06132	Cobalt	SW-846 6020	1	112721026001A	09/29/2011 23:16	David K Beck	2
06133	Copper	SW-846 6020	1	112721026001A	09/29/2011 23:16	David K Beck	2
06135	Lead	SW-846 6020	1	112721026001A	09/29/2011 23:16	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112721026001C	09/29/2011 23:16	David K Beck	2
06139	Nickel	SW-846 6020	1	112721026001A	09/29/2011 23:16	David K Beck	2
06141	Selenium	SW-846 6020	1	112721026001B	09/29/2011 23:16	David K Beck	2
06142	Silver	SW-846 6020	1	112721026001A	09/29/2011 23:16	David K Beck	2
06145	Thallium	SW-846 6020	1	112721026001A	09/29/2011 23:16	David K Beck	2
06148	Vanadium	SW-846 6020	1	112721026001A	09/29/2011 23:16	David K Beck	2
06149	Zinc	SW-846 6020	1	112721026001A	09/29/2011 23:16	David K Beck	2
00159	Mercury	SW-846 7471A	1	112725711001	09/29/2011 19:18	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708001	09/29/2011 11:57	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112845708002	10/11/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026001	09/29/2011 12:19	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711001	09/29/2011 12:59	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11279621201B	10/07/2011 21:22	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11279621201B	10/07/2011 21:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621203B	10/06/2011 15:46	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11280243201A	10/08/2011 20:04	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11279621201B	10/06/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621203B	10/04/2011 09:25	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11284039402B	10/11/2011 13:00	Michele L Graham	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-105-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-105-SA7-SB-4.0-5.0

LLI Sample # SW 6421308
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 14:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5616 SDG#: DE256-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11280243201A	10/07/2011 10:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162401B	10/05/2011 19:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-172-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA7-SB-4.0-5.0

LLI Sample # SW 6421309
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 10:35

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5617 SDG#: DE256-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	181	U	181	362		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	2-butoxy-Ethanol	111-76-2	1,800	U	1,800	1,800		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

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Sample Description: **SL-172-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA7-SB-4.0-5.0

LLI Sample # SW 6421309
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 10:35

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5617 SDG#: DE256-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	2-phenoxy-Ethanol	122-99-6	1,800	U	1,800	1,800		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	1.2	J	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.50	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.27
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	650	U	650	1,600		1

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Sample Description: SL-172-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA7-SB-4.0-5.0

LLI Sample # SW 6421309
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 10:35

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5617 SDG#: DE256-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.76	J	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.3	U	4.3	13		10
10199	EFH (C15-C20)	n.a.	4.3	U	4.3	13		10
10199	EFH (C21-C30)	n.a.	33		4.3	13		10
10199	EFH (C30 - C40)	n.a.	130		4.3	13		10
10199	EFH (C8-C11)	n.a.	4.3	U	4.3	13		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,500		6.31	20.9		1
07914	Boron	7440-42-8	6.33		0.375	5.21		1
01650	Calcium	7440-70-2	7,950		2.61	20.9		1
01654	Iron	7439-89-6	15,700		2.72	20.9		1
01656	Lithium	7439-93-2	16.6		0.65	2.1		1
01657	Magnesium	7439-95-4	3,780		0.459	10.4		1
06958	Manganese	7439-96-5	206		0.0375	0.521		1
10145	Phosphorus	7723-14-0	371		0.365	10.4		1

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Sample Description: **SL-172-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA7-SB-4.0-5.0

LLI Sample # SW 6421309
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 10:35

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5617 SDG#: DE256-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	2,110		11.8	52.1		1
01667	Sodium	7440-23-5	185		6.21	104		1
07968	Strontium	7440-24-6	43.5		0.0261	0.521		1
06969	Tin	7440-31-5	0.895	J	0.334	10.4		1
06970	Titanium	7440-32-6	1,030		0.0755	1.06		1
10146	Zirconium	7440-67-7	1.55	J	0.480	5.21		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.377		0.0795	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.33		0.0859	0.430		2
06126	Barium	7440-39-3	75.5		0.114	0.430		2
06127	Beryllium	7440-41-7	0.450		0.0172	0.107		2
06128	Cadmium	7440-43-9	0.155		0.0472	0.107		2
06131	Chromium	7440-47-3	14.0		0.129	0.430		2
06132	Cobalt	7440-48-4	4.59		0.0215	0.107		2
06133	Copper	7440-50-8	7.62		0.0859	0.430		2
06135	Lead	7439-92-1	5.08		0.0110	0.215		2
06138	Molybdenum	7439-98-7	0.470		0.0537	0.107		2
06139	Nickel	7440-02-0	9.06		0.107	0.430		2
06141	Selenium	7782-49-2	0.160	J	0.0623	0.430		2
06142	Silver	7440-22-4	0.0248	J	0.0152	0.107		2
06145	Thallium	7440-28-0	0.191		0.0322	0.107		2
06148	Vanadium	7440-62-2	29.7		0.0236	0.107		2
06149	Zinc	7440-66-6	58.4		0.601	3.22		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0079	J	0.0074	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7		0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6	J	0.88	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	4.7		0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.48		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.8		0.50	0.50		1

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Sample Description: **SL-172-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA7-SB-4.0-5.0

LLI Sample # SW 6421309
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 10:35

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5617 SDG#: DE256-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-172-SA7-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11280SLB026	10/11/2011 11:33	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11279SLC026	10/13/2011 15:36	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11279SLD026	10/12/2011 12:02	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11280SLB026	10/07/2011 17:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11279SLD026	10/06/2011 23:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11279SLC026	10/06/2011 23:15	Karen L Beyer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11274A34A	10/01/2011 14:33	Laura M Krieger	24.27
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201127125677	09/28/2011 17:28	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201127125677	09/28/2011 17:29	Lois E Hiltz	n.a.
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112740006A	10/05/2011 21:24	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112790038A	10/20/2011 07:27	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112790038A	10/07/2011 11:15	Kelli M Barto	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112740006A	10/03/2011 19:00	Wanda F Oswald	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112760023A	10/04/2011 22:38	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112770027A	10/05/2011 03:17	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112790037A	10/08/2011 15:41	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112790036A	10/09/2011 04:51	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112790036A	10/07/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112790037A	10/07/2011 07:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112760023A	10/04/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112770027A	10/04/2011 17:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112725708001	10/11/2011 03:03	John W Yanzuk II	1

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Sample Description: **SL-172-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA7-SB-4.0-5.0

LLI Sample # SW 6421309
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 10:35

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5617 SDG#: DE256-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	112725708001	10/10/2011 09:54	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112725708001	10/10/2011 09:54	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112725708001	10/10/2011 09:54	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112725708001	10/10/2011 09:54	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112725708001	10/10/2011 09:54	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112725708001	10/10/2011 09:54	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112725708001	10/10/2011 09:54	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112725708001	10/10/2011 09:54	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112725708001	10/10/2011 09:54	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112725708001	10/10/2011 09:54	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112725708001	10/10/2011 09:54	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112845708002	10/12/2011 09:05	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112725708001	10/10/2011 09:54	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112721026001A	09/29/2011 23:19	David K Beck	2
06125	Arsenic	SW-846 6020	1	112721026001A	09/29/2011 23:19	David K Beck	2
06126	Barium	SW-846 6020	1	112721026001D	09/29/2011 23:19	David K Beck	2
06127	Beryllium	SW-846 6020	1	112721026001A	09/29/2011 23:19	David K Beck	2
06128	Cadmium	SW-846 6020	1	112721026001A	09/29/2011 23:19	David K Beck	2
06131	Chromium	SW-846 6020	1	112721026001A	09/29/2011 23:19	David K Beck	2
06132	Cobalt	SW-846 6020	1	112721026001A	09/29/2011 23:19	David K Beck	2
06133	Copper	SW-846 6020	1	112721026001A	09/29/2011 23:19	David K Beck	2
06135	Lead	SW-846 6020	1	112721026001A	09/29/2011 23:19	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112721026001C	09/29/2011 23:19	David K Beck	2
06139	Nickel	SW-846 6020	1	112721026001A	09/29/2011 23:19	David K Beck	2
06141	Selenium	SW-846 6020	1	112721026001B	09/29/2011 23:19	David K Beck	2
06142	Silver	SW-846 6020	1	112721026001A	09/29/2011 23:19	David K Beck	2
06145	Thallium	SW-846 6020	1	112721026001A	09/29/2011 23:19	David K Beck	2
06148	Vanadium	SW-846 6020	1	112721026001A	09/29/2011 23:19	David K Beck	2
06149	Zinc	SW-846 6020	1	112721026001A	09/29/2011 23:19	David K Beck	2
00159	Mercury	SW-846 7471A	1	112725711001	09/29/2011 19:19	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708001	09/29/2011 11:57	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112845708002	10/11/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026001	09/29/2011 12:19	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711001	09/29/2011 12:59	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11279621201B	10/07/2011 21:35	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11279621201B	10/07/2011 21:35	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621203B	10/06/2011 16:09	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11280243201A	10/08/2011 20:19	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11279621201B	10/06/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621203B	10/04/2011 09:25	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11284039402B	10/11/2011 13:00	Michele L Graham	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-172-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA7-SB-4.0-5.0

LLI Sample # SW 6421309
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 10:35

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5617 SDG#: DE256-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11280243201A	10/07/2011 10:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162401B	10/05/2011 19:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-172-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA7-SB-9.0-10.0

LLI Sample # SW 6421310
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 10:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5618 SDG#: DE256-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	184	U	184	367		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	2-butoxy-Ethanol	111-76-2	1,800	U	1,800	1,800		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-172-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA7-SB-9.0-10.0

LLI Sample # SW 6421310
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 10:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5618 SDG#: DE256-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	2-phenoxy-Ethanol	122-99-6	1,800	U	1,800	1,800		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	J	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		21.93
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	660	U	660	1,700		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-172-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA7-SB-9.0-10.0

LLI Sample # SW 6421310
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 10:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5618 SDG#: DE256-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	5.6		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	19		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,200		6.60	21.8		1
07914	Boron	7440-42-8	6.98		0.393	5.45		1
01650	Calcium	7440-70-2	3,920		2.73	21.8		1
01654	Iron	7439-89-6	18,400		2.85	21.8		1
01656	Lithium	7439-93-2	22.2		0.68	2.2		1
01657	Magnesium	7439-95-4	4,100		0.480	10.9		1
06958	Manganese	7439-96-5	246		0.0393	0.545		1
10145	Phosphorus	7723-14-0	298		0.382	10.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-172-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA7-SB-9.0-10.0

LLI Sample # SW 6421310
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 10:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5618 SDG#: DE256-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	2,580		12.3	54.5		1
01667	Sodium	7440-23-5	143		6.49	109		1
07968	Strontium	7440-24-6	17.6		0.0273	0.545		1
06969	Tin	7440-31-5	0.941	J	0.349	10.9		1
06970	Titanium	7440-32-6	1,080		0.0767	1.08		1
10146	Zirconium	7440-67-7	1.23	J	0.502	5.45		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0791	U	0.0791	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.77		0.0855	0.428		2
06126	Barium	7440-39-3	83.5		0.113	0.428		2
06127	Beryllium	7440-41-7	0.570		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.119		0.0470	0.107		2
06131	Chromium	7440-47-3	16.3		0.128	0.428		2
06132	Cobalt	7440-48-4	5.40		0.0214	0.107		2
06133	Copper	7440-50-8	7.73		0.0855	0.428		2
06135	Lead	7439-92-1	6.48		0.0109	0.214		2
06138	Molybdenum	7439-98-7	0.376		0.0535	0.107		2
06139	Nickel	7440-02-0	10.2		0.107	0.428		2
06141	Selenium	7782-49-2	0.126	J	0.0620	0.428		2
06142	Silver	7440-22-4	0.0224	J	0.0152	0.107		2
06145	Thallium	7440-28-0	0.242		0.0321	0.107		2
06148	Vanadium	7440-62-2	34.8		0.0235	0.107		2
06149	Zinc	7440-66-6	58.9		0.599	3.21		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0490	J	0.0074	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.5		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0		0.87	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.29		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.2		0.50	0.50		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-172-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA7-SB-9.0-10.0

LLI Sample # SW 6421310
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 10:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5618 SDG#: DE256-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-172-SA7-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11280SLB026	10/11/2011 11:52	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11279SLC026	10/13/2011 16:01	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11279SLD026	10/12/2011 12:36	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11280SLB026	10/07/2011 17:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11279SLD026	10/06/2011 23:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11279SLC026	10/06/2011 23:15	Karen L Beyer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11274A34A	10/01/2011 15:09	Laura M Krieger	21.93
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201127125677	09/28/2011 17:44	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201127125677	09/28/2011 17:45	Lois E Hiltz	n.a.
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112740006A	10/05/2011 21:34	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112790038A	10/20/2011 07:46	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112790038A	10/07/2011 11:15	Kelli M Barto	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112740006A	10/03/2011 19:00	Wanda F Oswald	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112760023A	10/04/2011 22:54	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112770027A	10/05/2011 03:30	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112790037A	10/11/2011 06:31	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112790036A	10/08/2011 23:41	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112790036A	10/07/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112790037A	10/07/2011 07:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112760023A	10/04/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112770027A	10/04/2011 17:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112725708001	10/11/2011 03:07	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-172-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA7-SB-9.0-10.0

LLI Sample # SW 6421310
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 10:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5618 SDG#: DE256-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	112725708001	10/10/2011 09:58	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112725708001	10/10/2011 09:58	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112725708001	10/10/2011 09:58	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112725708001	10/10/2011 09:58	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112725708001	10/10/2011 09:58	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112725708001	10/10/2011 09:58	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112725708001	10/10/2011 09:58	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112725708001	10/10/2011 09:58	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112725708001	10/10/2011 09:58	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112725708001	10/10/2011 09:58	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112725708001	10/10/2011 09:58	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112845708002	10/12/2011 09:09	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112725708001	10/10/2011 09:58	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112721026001A	09/29/2011 23:22	David K Beck	2
06125	Arsenic	SW-846 6020	1	112721026001A	09/29/2011 23:22	David K Beck	2
06126	Barium	SW-846 6020	1	112721026001D	09/29/2011 23:22	David K Beck	2
06127	Beryllium	SW-846 6020	1	112721026001A	09/29/2011 23:22	David K Beck	2
06128	Cadmium	SW-846 6020	1	112721026001A	09/29/2011 23:22	David K Beck	2
06131	Chromium	SW-846 6020	1	112721026001A	09/29/2011 23:22	David K Beck	2
06132	Cobalt	SW-846 6020	1	112721026001A	09/29/2011 23:22	David K Beck	2
06133	Copper	SW-846 6020	1	112721026001A	09/29/2011 23:22	David K Beck	2
06135	Lead	SW-846 6020	1	112721026001A	09/29/2011 23:22	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112721026001C	09/29/2011 23:22	David K Beck	2
06139	Nickel	SW-846 6020	1	112721026001A	09/29/2011 23:22	David K Beck	2
06141	Selenium	SW-846 6020	1	112721026001B	09/29/2011 23:22	David K Beck	2
06142	Silver	SW-846 6020	1	112721026001A	09/29/2011 23:22	David K Beck	2
06145	Thallium	SW-846 6020	1	112721026001A	09/29/2011 23:22	David K Beck	2
06148	Vanadium	SW-846 6020	1	112721026001A	09/29/2011 23:22	David K Beck	2
06149	Zinc	SW-846 6020	1	112721026001A	09/29/2011 23:22	David K Beck	2
00159	Mercury	SW-846 7471A	1	112725711001	09/29/2011 19:20	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708001	09/29/2011 11:57	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112845708002	10/11/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026001	09/29/2011 12:19	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711001	09/29/2011 12:59	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11279621201B	10/07/2011 21:48	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11279621201B	10/07/2011 21:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621203B	10/06/2011 16:32	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11280243201A	10/08/2011 20:26	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11279621201B	10/06/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621203B	10/04/2011 09:25	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11284039402B	10/11/2011 13:00	Michele L Graham	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-172-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA7-SB-9.0-10.0

LLI Sample # SW 6421310
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 10:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5618 SDG#: DE256-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11280243201A	10/07/2011 10:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162401B	10/05/2011 19:53	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: DUP-09-SA7-QC-092711 Soil
SSFL Area IV Collocated Soil Sampling
DUP-09-SA7-QC-092711

LLI Sample # SW 6421311
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5619 SDG#: DE256-19FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.3	U	17.3	34.7		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	2-butoxy-Ethanol	111-76-2	1,700	U	1,700	1,700		1
04688	Di-n-butylphthalate	84-74-2	35	J	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1

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Sample Description: **DUP-09-SA7-QC-092711 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-09-SA7-QC-092711

LLI Sample # SW 6421311
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5619 SDG#: DE256-19FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	2-phenoxy-Ethanol	122-99-6	1,700	U	1,700	1,700		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.76	J	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	1.0	J	0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	2.4		0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	1.0	J	0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Chrysene	218-01-9	1.5	J	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.2	U	6.2	19		1
10138	Fluoranthene	206-44-0	1.0	J	0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19		1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7		1
10138	Pyrene	129-00-0	1.5	J	0.69	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		23.81
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	620	U	620	1,600		1

*=This limit was used in the evaluation of the final result
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Sample Description: DUP-09-SA7-QC-092711 Soil
SSFL Area IV Collocated Soil Sampling
DUP-09-SA7-QC-092711

LLI Sample # SW 6421311
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5619 SDG#: DE256-19FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.6		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.6		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.1	U	2.1	6.2		5
10199	EFH (C15-C20)	n.a.	2.1	U	2.1	6.2		5
10199	EFH (C21-C30)	n.a.	17		2.1	6.2		5
10199	EFH (C30 - C40)	n.a.	60		2.1	6.2		5
10199	EFH (C8-C11)	n.a.	2.1	U	2.1	6.2		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,100		6.00	19.8		1
07914	Boron	7440-42-8	6.69		0.357	4.96		1
01650	Calcium	7440-70-2	4,210		2.48	19.8		1
01654	Iron	7439-89-6	18,700		2.59	19.8		1
01656	Lithium	7439-93-2	24.0		0.61	2.0		1
01657	Magnesium	7439-95-4	4,320		0.436	9.91		1
06958	Manganese	7439-96-5	255		0.0357	0.496		1
10145	Phosphorus	7723-14-0	378		0.347	9.91		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP-09-SA7-QC-092711 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-09-SA7-QC-092711

LLI Sample # SW 6421311
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5619 SDG#: DE256-19FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	2,720		11.2	49.6		1
01667	Sodium	7440-23-5	81.8	J	5.90	99.1		1
07968	Strontium	7440-24-6	17.9		0.0248	0.496		1
06969	Tin	7440-31-5	0.615	J	0.317	9.91		1
06970	Titanium	7440-32-6	1,140		0.0731	1.03		1
10146	Zirconium	7440-67-7	1.13	J	0.456	4.96		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0740	U	0.0740	0.200		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.84		0.0800	0.400		2
06126	Barium	7440-39-3	76.0		0.106	0.400		2
06127	Beryllium	7440-41-7	0.425		0.0160	0.100		2
06128	Cadmium	7440-43-9	0.0950	J	0.0440	0.100		2
06131	Chromium	7440-47-3	14.4		0.120	0.400		2
06132	Cobalt	7440-48-4	4.59		0.0200	0.100		2
06133	Copper	7440-50-8	7.00		0.0800	0.400		2
06135	Lead	7439-92-1	4.51		0.0102	0.200		2
06138	Molybdenum	7439-98-7	0.445		0.0500	0.100		2
06139	Nickel	7440-02-0	9.02		0.100	0.400		2
06141	Selenium	7782-49-2	0.139	J	0.0580	0.400		2
06142	Silver	7440-22-4	0.0142	U	0.0142	0.100		2
06145	Thallium	7440-28-0	0.258		0.0300	0.100		2
06148	Vanadium	7440-62-2	31.5		0.0220	0.100		2
06149	Zinc	7440-66-6	50.8		0.560	3.00		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0079	J	0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.4		0.84	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.84	U	0.84	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.32		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	3.9		0.50	0.50		1

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: DUP-09-SA7-QC-092711 Soil
SSFL Area IV Collocated Soil Sampling
DUP-09-SA7-QC-092711

LLI Sample # SW 6421311
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5619 SDG#: DE256-19FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11280SLB026	10/10/2011 18:22	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11279SLC026	10/13/2011 16:26	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11279SLD026	10/12/2011 13:08	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11280SLB026	10/07/2011 17:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11279SLD026	10/06/2011 23:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11279SLC026	10/06/2011 23:15	Karen L Beyer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11274A34A	10/01/2011 15:45	Laura M Krieger	23.81
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201127125677	09/28/2011 17:46	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201127125677	09/28/2011 17:47	Lois E Hiltz	n.a.
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112740006A	10/05/2011 21:43	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112790038A	10/20/2011 08:04	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112790038A	10/07/2011 11:15	Kelli M Barto	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112740006A	10/03/2011 19:00	Wanda F Oswald	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112760023A	10/04/2011 23:10	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112770027A	10/05/2011 03:42	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112790037A	10/11/2011 06:58	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112790036A	10/09/2011 05:15	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112790036A	10/07/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112790037A	10/07/2011 07:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112760023A	10/04/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112770027A	10/04/2011 17:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112725708001	10/11/2011 03:11	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112725708001	10/10/2011 10:02	Joanne M Gates	1

*=This limit was used in the evaluation of the final result
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Sample Description: **DUP-09-SA7-QC-092711 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-09-SA7-QC-092711

LLI Sample # SW 6421311
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5619 SDG#: DE256-19FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	112725708001	10/10/2011 10:02	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112725708001	10/10/2011 10:02	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112725708001	10/10/2011 10:02	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112725708001	10/10/2011 10:02	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112725708001	10/10/2011 10:02	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112725708001	10/10/2011 10:02	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112725708001	10/10/2011 10:02	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112725708001	10/10/2011 10:02	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112725708001	10/10/2011 10:02	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112725708001	10/10/2011 10:02	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112845708002	10/12/2011 09:13	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112725708001	10/10/2011 10:02	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112721026001A	09/29/2011 23:25	David K Beck	2
06125	Arsenic	SW-846 6020	1	112721026001A	09/29/2011 23:25	David K Beck	2
06126	Barium	SW-846 6020	1	112721026001D	09/29/2011 23:25	David K Beck	2
06127	Beryllium	SW-846 6020	1	112721026001A	09/29/2011 23:25	David K Beck	2
06128	Cadmium	SW-846 6020	1	112721026001A	09/29/2011 23:25	David K Beck	2
06131	Chromium	SW-846 6020	1	112721026001A	09/29/2011 23:25	David K Beck	2
06132	Cobalt	SW-846 6020	1	112721026001A	09/29/2011 23:25	David K Beck	2
06133	Copper	SW-846 6020	1	112721026001A	09/29/2011 23:25	David K Beck	2
06135	Lead	SW-846 6020	1	112721026001A	09/29/2011 23:25	David K Beck	2
06138	Molybdenum	SW-846 6020	1	112721026001C	09/29/2011 23:25	David K Beck	2
06139	Nickel	SW-846 6020	1	112721026001A	09/29/2011 23:25	David K Beck	2
06141	Selenium	SW-846 6020	1	112721026001B	09/29/2011 23:25	David K Beck	2
06142	Silver	SW-846 6020	1	112721026001A	09/29/2011 23:25	David K Beck	2
06145	Thallium	SW-846 6020	1	112721026001A	09/29/2011 23:25	David K Beck	2
06148	Vanadium	SW-846 6020	1	112721026001A	09/29/2011 23:25	David K Beck	2
06149	Zinc	SW-846 6020	1	112721026001A	09/29/2011 23:25	David K Beck	2
00159	Mercury	SW-846 7471A	1	112725711001	09/29/2011 19:21	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708001	09/29/2011 11:57	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112845708002	10/11/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026001	09/29/2011 12:19	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711001	09/29/2011 12:59	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11279621201B	10/07/2011 22:00	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11279621201B	10/07/2011 22:00	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11277621203B	10/06/2011 16:55	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11280243201A	10/08/2011 20:40	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11279621201B	10/06/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11277621203B	10/04/2011 09:25	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11284039402B	10/11/2011 13:00	Michele L Graham	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **DUP-09-SA7-QC-092711 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-09-SA7-QC-092711

LLI Sample # SW 6421311
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:45

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5619 SDG#: DE256-19FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11280243201A	10/07/2011 10:20	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162401B	10/05/2011 19:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-092711 Water**
SSFL Area IV Collocated Soil Sampling
TB-092711

LLI Sample # WW 6421312
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 14:30

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5620 SDG#: DE256-20TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11278B20A	10/06/2011 00:05	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11278B20A	10/06/2011 00:05	Marie D John	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA7-SB-092711 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-092711

LLI Sample # WW 6421313
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 13:00

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5621 SDG#: DE256-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	26		6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB-SA7-SB-092711 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-092711

LLI Sample # WW 6421313
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 13:00

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5621 SDG#: DE256-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	3	J	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	3.23		0.532	1.06		1

The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.

N-Nitrosodimethylamine was detected in the method blank at a concentration of 1.47 ng/l. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and comparable data was observed. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	Aniline	62-53-3	1	U	1	6		1
04678	Benzidine	92-87-5	22	U	22	66		1
04678	Benzoic acid	65-85-0	7	U	7	17		1
04678	Benzyl alcohol	100-51-6	6	U	6	17		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	6		1
04678	Carbazole	86-74-8	1	U	1	6		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	6		1
04678	4-Chloroaniline	106-47-8	1	U	1	6		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	6		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	6		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	6		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	6		1
04678	2-Chlorophenol	95-57-8	1	U	1	6		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	6		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB-SA7-SB-092711 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-092711

LLI Sample # WW 6421313
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 13:00

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5621 SDG#: DE256-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	Dibenzofuran	132-64-9	1	U	1	6		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	6		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	6		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	6		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	6		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	6		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	11		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	11		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	6	U	6	17		1
04678	2,4-Dinitrophenol	51-28-5	11	U	11	33		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	6		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	6		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	6		1
04678	Hexachlorobenzene	118-74-1	1	U	1	6		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	6		1
04678	Hexachlorocyclopentadiene	77-47-4	6	U	6	17		1
04678	Hexachloroethane	67-72-1	1	U	1	6		1
04678	Isophorone	78-59-1	1	U	1	6		1
04678	2-Methylphenol	95-48-7	1	U	1	6		1
04678	4-Methylphenol	106-44-5	2	U	2	6		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	6		1
04678	3-Nitroaniline	99-09-2	1	U	1	6		1
04678	4-Nitroaniline	100-01-6	1	U	1	6		1
04678	Nitrobenzene	98-95-3	1	U	1	6		1
04678	2-Nitrophenol	88-75-5	1	U	1	6		1
04678	4-Nitrophenol	100-02-7	11	U	11	33		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	6		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	6		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	17		1
04678	Phenol	108-95-2	1	U	1	6		1
04678	Tetralin	119-64-2	6	U	6	6		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	6		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	6		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	6		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.011	U	0.011	0.055		1
10137	Acenaphthylene	208-96-8	0.011	U	0.011	0.055		1
10137	Anthracene	120-12-7	0.011	U	0.011	0.055		1
10137	Benzo(a)anthracene	56-55-3	0.011	U	0.011	0.055		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB-SA7-SB-092711 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-092711

LLI Sample # WW 6421313
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 13:00

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5621 SDG#: DE256-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Benzo(a)pyrene	50-32-8	0.011	U	0.011	0.055		1
10137	Benzo(b)fluoranthene	205-99-2	0.011	U	0.011	0.055		1
10137	Benzo(g,h,i)perylene	191-24-2	0.011	U	0.011	0.055		1
10137	Benzo(k)fluoranthene	207-08-9	0.011	U	0.011	0.055		1
10137	Butylbenzylphthalate	85-68-7	0.055	U	0.055	1.1		1
10137	Di-n-butylphthalate	84-74-2	0.79	J	0.055	1.1		1
10137	Chrysene	218-01-9	0.011	U	0.011	0.055		1
10137	Dibenz(a,h)anthracene	53-70-3	0.011	U	0.011	0.055		1
10137	Diethylphthalate	84-66-2	0.36	J	0.055	1.1		1
10137	Dimethylphthalate	131-11-3	0.055	U	0.055	1.1		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.13	J	0.055	1.1		1
10137	Fluoranthene	206-44-0	0.011	U	0.011	0.055		1
10137	Fluorene	86-73-7	0.011	U	0.011	0.055		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.011	U	0.011	0.055		1
10137	1-Methylnaphthalene	90-12-0	0.011	U	0.011	0.055		1
10137	2-Methylnaphthalene	91-57-6	0.011	U	0.011	0.055		1
10137	Naphthalene	91-20-3	0.091		0.033	0.055		1
10137	N-Nitrosodimethylamine	62-75-9	0.011	U	0.011	0.055		1
10137	Di-n-octylphthalate	117-84-0	0.11	J	0.055	1.1		1
10137	Phenanthrene	85-01-8	0.033	U	0.033	0.055		1
10137	Pyrene	129-00-0	0.011	U	0.011	0.055		1
Reporting limits were raised due to limited sample volume.								
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.65	U	0.65	0.65	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1

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Sample Description: **EB-SA7-SB-092711 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-092711

LLI Sample # WW 6421313
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 13:00

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5621 SDG#: DE256-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	3.4		0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside of the method required holding time, and LCS/LCSD recoveries are within the QC acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extracts.
Reporting limits were raised due to interference from the sample matrix.

HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	20b Formaldehyde 8315A	50-00-0	10	U	10	50		1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.51		1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.51		1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.51		1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.51		1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.51		1
10227	PCB-1232	11141-16-5	0.21	U	0.21	0.51		1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.51		1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.51		1
10227	PCB-1254	11097-69-1	0.10	U	0.10	0.51		1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.51		1
10227	PCB-1262	37324-23-5	0.21	U	0.21	0.51		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.51		1
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	

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Sample Description: **EB-SA7-SB-092711 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-092711

LLI Sample # WW 6421313
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 13:00

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5621 SDG#: DE256-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	20	U	20	200		1
08278	Ethylene glycol	107-21-1	20	U	20	200		1
08278	Propylene glycol	57-55-6	20	U	20	200		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.085	U	0.085	0.27		1
10319	o-Terphenyl	84-15-1	0.085	U	0.085	0.27		1
10319	p-Terphenyl	92-94-4	0.085	U	0.085	0.27		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.095	U	0.095	0.57		1
10365	EFH (C15-C20)	n.a.	0.095	U	0.095	0.57		1
10365	EFH (C21-C30)	n.a.	0.095	U	0.095	0.57		1
10365	EFH (C30 - C40)	n.a.	0.095	U	0.095	0.57		1
10365	EFH (C8-C11)	n.a.	0.095	U	0.095	0.57		1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0801	U	0.0801	0.200		1
08014	Boron	7440-42-8	0.0039	J	0.0022	0.0500		1
01750	Calcium	7440-70-2	0.0705	U	0.0705	0.200		1
01754	Iron	7439-89-6	0.0141	U	0.0141	0.200		1
01756	Lithium	7439-93-2	0.0076	U	0.0076	0.0200		1
01757	Magnesium	7439-95-4	0.0067	U	0.0067	0.100		1
07058	Manganese	7439-96-5	0.00044	U	0.00044	0.0050		1
10143	Phosphorus	7723-14-0	0.0047	U	0.0047	0.100		1
01762	Potassium	7440-09-7	0.0874	U	0.0874	0.500		1
01767	Sodium	7440-23-5	0.0647	U	0.0647	1.00		1
08068	Strontium	7440-24-6	0.00023	J	0.00022	0.0050		1
07069	Tin	7440-31-5	0.0043	U	0.0043	0.0200		1
07070	Titanium	7440-32-6	0.00046	U	0.00046	0.0100		1
10144	Zirconium	7440-67-7	0.0042	U	0.0042	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00042	U	0.00042	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00069	U	0.00069	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.00013	J	0.000080	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1

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Sample Description: **EB-SA7-SB-092711 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-092711

LLI Sample # WW 6421313
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 13:00

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5621 SDG#: DE256-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06041	Selenium	7782-49-2	0.00027 U	0.00027	0.0020		1
06042	Silver	7440-22-4	0.000098 U	0.000098	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00018 U	0.00018	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000045 J	0.000026	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050 U	0.050	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9012B		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
08255	16b Cyanide by 9012B	57-12-5	0.0050 U	0.0050	0.010		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	17b pH by 9040B	n.a.	5.7	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260B	SW-846 8260B	1	Y112722AA	09/29/2011 20:24	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E112722AA	09/29/2011 21:22	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y112722AA	09/29/2011 20:24	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E112722AA	09/29/2011 21:22	Sara E Johnson	1
10962	21b NDMA by 1625C	EPA 1625C	1	11269WAA026	10/04/2011 13:29	Matthew S Woods	1
04678	5b SVOCs with Tetralin 8270C	SW-846 8270C	1	11276WAC026	10/05/2011 15:13	Linda M Hartenstine	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB-SA7-SB-092711 Water
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-092711

LLI Sample # WW 6421313
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 13:00

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5621 SDG#: DE256-21EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274WAB026	10/11/2011 22:01	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11276WAC026	10/04/2011 09:40	Denise L Trimby	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11274WAB026	10/02/2011 20:00	Elaine F Stoltzfus	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11269WAA026	09/28/2011 15:10	Wanda F Oswald	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11278B20A	10/06/2011 00:49	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11278B20A	10/06/2011 00:49	Marie D John	1
10131	15b Energetics by 8330A	SW-846 8330A	1	112760016A	10/05/2011 17:40	James H Place	1
04144	20b Formaldehyde 8315A	SW-846 8315A	1	112720027A	09/30/2011 17:48	James H Place	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	112740023A	10/04/2011 20:32	Jessica L Miller	1
11117	PCB Waters Extraction	SW-846 3510C	1	112740023A	10/04/2011 02:30	Sherry L Morrow	1
01013	Formaldehyde Extraction	SW-846 8315A	1	112720027A	09/30/2011 08:40	Denise L Trimby	1
11122	Energetics Extraction	SW-846 8330	1	112760016A	10/04/2011 18:30	Wanda F Oswald	1
06624	18b Alcohols by 8015B	SW-846 8015B	1	112730033A	09/30/2011 22:24	Elizabeth J Marin	1
08278	19b Glycols by 8015B	SW-846 8015B modified	1	112710013A	09/28/2011 23:10	Tyler O Griffin	1
10319	22b Terphenyls by 8015B	SW-846 8015B	1	112730012A	10/01/2011 20:19	Heather E Williams	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112740003A	10/05/2011 08:04	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	112740003A	10/03/2011 10:00	Catherine R Wiker	1
10304	Terphenyls water prep	SW-846 3510C	1	112730012A	09/30/2011 16:50	Bronson L Cole	1
01743	Aluminum	SW-846 6010B	1	112781848003	10/09/2011 23:51	Tara L Snyder	1
08014	Boron	SW-846 6010B	1	112781848003	10/09/2011 23:51	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	112781848003	10/09/2011 23:51	Tara L Snyder	1
01754	Iron	SW-846 6010B	1	112781848003	10/09/2011 23:51	Tara L Snyder	1
01756	Lithium	SW-846 6010B	1	112781848003	10/09/2011 23:51	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	112781848003	10/09/2011 23:51	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	112781848003	10/09/2011 23:51	Tara L Snyder	1
10143	Phosphorus	SW-846 6010B	1	112781848003	10/09/2011 23:51	Tara L Snyder	1
01762	Potassium	SW-846 6010B	1	112781848003	10/09/2011 23:51	Tara L Snyder	1
01767	Sodium	SW-846 6010B	1	112781848003	10/09/2011 23:51	Tara L Snyder	1
08068	Strontium	SW-846 6010B	1	112781848003	10/09/2011 23:51	Tara L Snyder	1
07069	Tin	SW-846 6010B	1	112781848003	10/09/2011 23:51	Tara L Snyder	1
07070	Titanium	SW-846 6010B	1	112781848003	10/09/2011 23:51	Tara L Snyder	1
10144	Zirconium	SW-846 6010B	1	112781848003	10/09/2011 23:51	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	112786050001A	10/06/2011 08:11	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	112786050001A	10/06/2011 08:11	Choon Y Tian	1
06026	Barium	SW-846 6020	1	112786050001D	10/06/2011 08:11	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	112786050001A	10/06/2011 08:11	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	112786050001A	10/06/2011 08:11	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	112786050001A	10/06/2011 08:11	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	112786050001A	10/06/2011 08:11	Choon Y Tian	1
06033	Copper	SW-846 6020	1	112786050001A	10/06/2011 08:11	Choon Y Tian	1
06035	Lead	SW-846 6020	1	112786050001A	10/06/2011 08:11	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	112786050001C	10/06/2011 08:11	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	112786050001A	10/06/2011 08:11	Choon Y Tian	1

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Sample Description: EB-SA7-SB-092711 Water
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-092711

LLI Sample # WW 6421313
LLI Group # 1268676
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 13:00

Submitted: 09/28/2011 09:00
Reported: 10/26/2011 13:44

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5621 SDG#: DE256-21EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06041	Selenium	SW-846 6020	1	112786050001B	10/06/2011 08:11	Choon Y Tian	1
06042	Silver	SW-846 6020	1	112786050001A	10/06/2011 08:11	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	112786050001A	10/06/2011 08:11	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	112786050001A	10/06/2011 08:11	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	112786050001A	10/06/2011 08:11	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	112785713001	10/06/2011 09:03	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	112781848003	10/05/2011 12:07	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	112786050001	10/05/2011 12:13	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	112785713001	10/05/2011 14:54	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11271196901B	09/28/2011 16:47	Ashley M Adams	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11271196901B	09/28/2011 16:47	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11272281101A	09/29/2011 11:30	Elyse P Brunstetter	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11271281401A	09/28/2011 12:16	Elyse P Brunstetter	1
08255	16b Cyanide by 9012B	SW-846 9012B	1	11276117102B	10/03/2011 20:07	Joseph E McKenzie	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11276117102B	10/03/2011 15:00	Carolyn M Mastropietro	1
00200	17b pH by 9040B	SW-846 9040B	1	11273020001A	09/30/2011 17:00	Luz M Groff	1

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268676
Reported: 10/26/11 at 01:44 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: E112722AA	Sample number(s): 6421313									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	105		80-123		
Batch number: Y112722AA	Sample number(s): 6421313									
Acetone	6	U	6.	20	ug/l	133	112	49-234	17	30
Benzene	0.5	U	0.5	5	ug/l	101	100	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	106	102	80-120	3	30
Bromochloromethane	1	U	1.	5	ug/l	106	101	80-120	4	30
Bromodichloromethane	1	U	1.	5	ug/l	98	95	80-120	4	30
Bromoform	1	U	1.	5	ug/l	93	90	61-120	3	30
Bromomethane	1	U	1.	5	ug/l	77	77	44-120	0	30
2-Butanone	3	U	3.	10	ug/l	111	103	66-151	7	30
n-Butylbenzene	1	U	1.	5	ug/l	105	101	74-120	3	30
sec-Butylbenzene	1	U	1.	5	ug/l	109	106	78-120	3	30
tert-Butylbenzene	1	U	1.	5	ug/l	105	101	80-120	4	30
Carbon Tetrachloride	1	U	1.	5	ug/l	98	96	75-123	3	30
Chlorobenzene	0.8	U	0.8	5	ug/l	106	102	80-120	4	30
Chloroethane	1	U	1.	5	ug/l	72	72	49-129	0	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	111	109	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	101	100	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	84	81	60-129	4	30
2-Chlorotoluene	1	U	1.	5	ug/l	106	102	80-120	4	30
4-Chlorotoluene	1	U	1.	5	ug/l	106	102	80-120	5	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	56	57	38-136	2	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	97	90	56-126	8	30
Dibromochloromethane	1	U	1.	5	ug/l	98	93	80-120	5	30
1,2-Dibromoethane	1	U	1.	5	ug/l	103	99	80-120	4	30
Dibromomethane	1	U	1.	5	ug/l	101	99	80-120	3	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	106	103	80-120	3	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	107	103	80-120	3	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	106	102	80-120	4	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	72	69	47-120	4	30
1,1-Dichloroethane	1	U	1.	5	ug/l	99	97	79-120	2	30
1,2-Dichloroethane	1	U	1.	5	ug/l	99	94	70-130	6	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	87	85	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	102	101	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	99	97	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	102	99	78-120	3	30
1,3-Dichloropropane	1	U	1.	5	ug/l	102	99	80-120	3	30
2,2-Dichloropropane	1	U	1.	5	ug/l	100	97	77-124	3	30
1,1-Dichloropropene	1	U	1.	5	ug/l	99	97	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	98	95	80-120	4	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	98	95	79-120	2	30
Ethylbenzene	0.8	U	0.8	5	ug/l	105	102	79-120	3	30
Freon 113	2	U	2.	10	ug/l	89	88	69-128	2	30
Freon 133a	2	U	2.	5	ug/l	77	78	77-120	1	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268676
Reported: 10/26/11 at 01:44 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Hexachlorobutadiene	2	U	2.	5	ug/l	100	97	58-120	3	30
2-Hexanone	3	U	3.	10	ug/l	101	97	65-136	4	30
Isopropylbenzene	1	U	1.	5	ug/l	108	105	77-120	3	30
p-Isopropyltoluene	1	U	1.	5	ug/l	107	104	80-120	3	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	99	96	76-120	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	96	93	70-121	3	30
Methylene Chloride	2	U	2.	5	ug/l	92	97	80-120	5	30
n-Propylbenzene	1	U	1.	5	ug/l	105	101	80-120	3	30
Styrene	1	U	1.	5	ug/l	107	104	80-120	3	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	103	100	80-120	4	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	102	98	71-120	4	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	104	102	80-121	2	30
Toluene	0.7	U	0.7	5	ug/l	104	101	79-120	3	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	104	100	65-120	4	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	106	102	67-120	4	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	98	97	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	105	102	80-120	3	30
Trichloroethene	1	U	1.	5	ug/l	102	100	80-120	3	30
Trichlorofluoromethane	2	U	2.	5	ug/l	86	84	64-129	3	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	102	98	80-120	4	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	108	104	74-120	3	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	108	103	75-120	4	30
Vinyl Chloride	1	U	1.	5	ug/l	83	81	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	106	102	80-120	3	30
o-Xylene	0.8	U	0.8	5	ug/l	105	102	80-120	3	30
Batch number: 11269WAA026	Sample number(s): 6421313									
N-Nitrosodimethylamine	1.47		0.500	1.00	ng/l	95	112	70-130	16	30
Batch number: 11274WAB026	Sample number(s): 6421313									
Acenaphthene	0.010	U	0.010	0.050	ug/l	99	103	74-109	3	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	97	98	70-110	1	30
Anthracene	0.010	U	0.010	0.050	ug/l	100	101	66-111	1	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	100	100	72-114	0	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	99	101	60-127	1	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	102	104	58-151	2	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	102	103	57-131	1	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	104	104	59-130	0	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	104	105	40-138	1	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	104	105	56-148	1	30
Chrysene	0.010	U	0.010	0.050	ug/l	100	100	76-116	0	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	105	105	55-134	1	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	102	103	37-148	1	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	103	103	40-119	1	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	115	116	57-154	1	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	101	101	75-116	0	30
Fluorene	0.010	U	0.010	0.050	ug/l	104	104	75-114	0	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	103	104	53-158	1	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	94	94	71-117	0	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	93	93	75-115	0	30
Naphthalene	0.030	U	0.030	0.050	ug/l	95	96	72-109	0	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	57	55	36-89	4	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	107	109	57-145	3	30
Phenanthrene	0.030	U	0.030	0.050	ug/l	97	96	76-111	1	30
Pyrene	0.010	U	0.010	0.050	ug/l	98	99	69-118	1	30
Batch number: 11276WAC026	Sample number(s): 6421313									
Aniline	1	U	1.	5	ug/l	88	86	38-116	3	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268676
Reported: 10/26/11 at 01:44 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzidine	20	U	20.	60	ug/l	57	60	34-117	5	30
Benzoic acid	6	U	6.	15	ug/l	43	18	10-69	82*	30
Benzyl alcohol	5	U	5.	15	ug/l	94	90	66-97	5	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	108	96	75-115	13	30
Carbazole	1	U	1.	5	ug/l	113	102	75-120	11	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	113	102	70-123	10	30
4-Chloroaniline	1	U	1.	5	ug/l	76	82	24-128	7	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	108	96	74-124	11	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	109*	100	77-108	8	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	100	93	62-127	7	30
2-Chloronaphthalene	2	U	2.	5	ug/l	108	94	54-132	13	30
2-Chlorophenol	1	U	1.	5	ug/l	107	102	71-114	5	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	103	93	77-114	10	30
Dibenzofuran	1	U	1.	5	ug/l	108	95	75-117	13	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	102	98	55-118	5	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	103	97	61-111	5	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	98	94	53-119	4	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	75	78	37-117	4	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	109	101	77-117	8	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	109	99	72-110	9	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	109	97	70-130	12	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	108	97	65-126	10	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	102	91	52-131	11	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	110	99	76-119	10	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	116	106	76-118	9	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	117	104	68-127	12	30
Hexachlorobenzene	1	U	1.	5	ug/l	104	92	75-119	13	30
Hexachlorobutadiene	1	U	1.	5	ug/l	99	89	57-124	10	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	90	78	36-118	14	30
Hexachloroethane	1	U	1.	5	ug/l	103	97	52-113	5	30
Isophorone	1	U	1.	5	ug/l	111	99	74-117	12	30
2-Methylphenol	1	U	1.	5	ug/l	103	96	58-110	7	30
4-Methylphenol	2	U	2.	5	ug/l	96	91	49-108	5	30
2-Nitroaniline	1	U	1.	5	ug/l	106	95	75-120	10	30
3-Nitroaniline	1	U	1.	5	ug/l	102	98	74-113	4	30
4-Nitroaniline	1	U	1.	5	ug/l	75	71	59-100	5	30
Nitrobenzene	1	U	1.	5	ug/l	111*	102	75-109	9	30
2-Nitrophenol	1	U	1.	5	ug/l	115	106	76-118	9	30
4-Nitrophenol	10	U	10.	30	ug/l	53	50	16-78	7	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	102	93	69-110	9	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	115	101	67-136	13	30
Pentachlorophenol	3	U	3.	15	ug/l	100	96	53-110	4	30
Phenol	1	U	1.	5	ug/l	53	50	21-67	6	30
Tetralin	5	U	5.	5	ug/l					
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	103	95	71-112	8	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	107	96	79-107	12	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	117	101	76-120	14	30

Batch number: 11279SLC026 Sample number(s): 6421288-6421301,6421305-6421311

Acenaphthene	17 U	17.	170	ug/kg	96	76-111
Acenaphthylene	17 U	17.	170	ug/kg	105	75-122
Aniline	170 U	170.	500	ug/kg	70	20-115
Anthracene	17 U	17.	170	ug/kg	105	76-112
Benzidine	1,200 U	1,200.	3,300	ug/kg	52	15-121
Benzo(a)anthracene	17 U	17.	170	ug/kg	98	73-112
Benzo(a)pyrene	17 U	17.	170	ug/kg	105	65-124

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268676
Reported: 10/26/11 at 01:44 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	110		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	103		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	104		67-125		
Benzoic acid	170 U		170.	500	ug/kg	85		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	91		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	103		73-114		
2-butoxy-Ethanol	1,700 U		1,700.	1,700	ug/kg					
Butylbenzylphthalate	17	U	17.	170	ug/kg	99		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	107		79-112		
Carbazole	17	U	17.	170	ug/kg	99		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	100		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	57		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	95		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	89		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	92		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	86		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	93		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	100		74-115		
Chrysene	17	U	17.	170	ug/kg	93		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	103		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	95		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	84		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	81		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	82		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	39		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	98		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	105		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	96		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	107		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	102		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	75		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	55		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	101		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	104		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	102		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	102		75-117		
Fluoranthene	17	U	17.	170	ug/kg	106		78-116		
Fluorene	17	U	17.	170	ug/kg	103		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	100		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	91		65-117		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	87		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	82		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	103		64-119		
Isophorone	17	U	17.	170	ug/kg	95		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	92		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	94		69-109		
2-Methylphenol	33	U	33.	170	ug/kg	95		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	91		66-117		
Naphthalene	17	U	17.	170	ug/kg	89		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	101		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	100		62-109		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268676
Reported: 10/26/11 at 01:44 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Nitroaniline	67	U	67.	170	ug/kg	73		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	92		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	93		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	81		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	90		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	81		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	104		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	111		62-137		
Pentachlorophenol	170	U	170.	500	ug/kg	88		51-117		
Phenanthrene	17	U	17.	170	ug/kg	98		77-113		
Phenol	17	U	17.	170	ug/kg	91		58-112		
2-phenoxy-Ethanol	1,700	U	1,700.	1,700	ug/kg					
Pyrene	17	U	17.	170	ug/kg	98		75-115		
Tetralin	170	U	170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	89		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	100		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	105		78-111		
Batch number: 11279SLD026	Sample number(s): 6421288-6421301,6421305-6421311									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	97		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	89		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	94		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	96		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	97		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	103		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	102		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	102		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	104		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	109		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	97		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	104		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	104		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	99		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	116		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	98		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	99		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	102		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	89		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	88		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	91		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	87		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	106		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	93		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	94		72-119		
Batch number: 11280SLB026	Sample number(s): 6421299-6421301,6421305-6421311									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	80		70-130		
Batch number: 11274A34A	Sample number(s): 6421299-6421301,6421305,6421308-6421311									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	71		67-119		
Batch number: 11278B20A	Sample number(s): 6421312-6421313									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268676
Reported: 10/26/11 at 01:44 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 112760016A	Sample number(s): 6421313									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	110	110	80-120	0	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	99	100	80-120	1	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	100	103	50-122	3	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	100	103	50-122	3	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	100	100	72-117	0	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	93	94	80-120	1	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
HMX	0.65	U	0.65	2.0	ug/l	96	96	65-125	0	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	91	92	75-121	1	30
Nitroglycerin	5.2	U	5.2	15	ug/l	96	96	80-120	0	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	92	94	74-120	2	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	97	100	69-107	3	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	94	96	80-120	2	30
PETN	6.0	U	6.0	18	ug/l	100	100	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	92	91	70-125	1	30
Tetryl	0.40	U	0.40	0.60	ug/l	71*	67*	72-141	6	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	79	75	53-129	5	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	97	98	76-109	1	30
Batch number: 112720027A	Sample number(s): 6421313									
20b Formaldehyde 8315A	10	U	10.	50	ug/l	108		69-130		
Batch number: 112740006A	Sample number(s): 6421299-6421301,6421305-6421311									
20a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	108		80-126		
Batch number: 112780016A	Sample number(s): 6421288-6421297									
2,4-D	1.2	U	1.2	3.6	ug/kg	106		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	81		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	106		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	114		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	15		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	110		62-170		
MCPA	76	U	76.	250	ug/kg	87		60-130		
MCPP (Mecoprop)	130 J		75.	250	ug/kg	89		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	104		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	102		68-114		
Batch number: 112830002A	Sample number(s): 6421298									
2,4-D	1.2	U	1.2	3.6	ug/kg	92		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	57		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	84		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	75		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	8*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	110		62-170		
MCPA	76	U	76.	250	ug/kg	74		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	69		54-137		
2,4,5-T	0.10	J	0.082	0.17	ug/kg	116		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	75		68-114		
Batch number: 112740023A	Sample number(s): 6421313									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	72	74	35-84	3	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	98	98	51-128	0	30
PCB-1221	0.10	U	0.10	0.50	ug/l					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268676
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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	102	106	56-135	4	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 112790038A	Sample number(s): 6421288-6421301,6421303-6421311									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	87	89	36-106	3	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	110		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	125		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112790039A	Sample number(s): 6421288-6421298									
Aldrin	0.066	U	0.066	0.17	ug/kg	82	79	44-135	4	50
Alpha BHC	0.034	U	0.034	0.17	ug/kg	76	65	38-130	17	50
Beta BHC	0.060	U	0.060	0.17	ug/kg	94	91	56-134	3	50
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	79	79	46-127	0	50
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	118	112	60-137	5	50
p,p-DDE	0.066	U	0.066	0.34	ug/kg	112	111	59-141	1	50
p,p-DDT	0.066	U	0.066	0.34	ug/kg	114	107	54-130	6	50
Delta BHC	0.036	U	0.036	0.17	ug/kg	100	97	55-144	3	50
Dieldrin	0.066	U	0.066	0.34	ug/kg	110	99	65-129	11	50
Endosulfan I	0.044	U	0.044	0.17	ug/kg	71	68	45-123	4	50
Endosulfan II	0.066	U	0.066	0.34	ug/kg	120	109	63-127	9	50
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	129	114	72-138	13	50
Endrin	0.066	U	0.066	0.34	ug/kg	104	99	62-129	6	50
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	100	83	55-132	18	35
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	118	106	69-139	11	50
Heptachlor	0.060	U	0.060	0.17	ug/kg	82	79	43-124	4	50
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	100	97	65-131	3	50
Methoxychlor	0.34	U	0.34	1.7	ug/kg	130*	116	59-125	12	50
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 112710013A	Sample number(s): 6421313									
Diethylene glycol	20	U	20.	200	mg/l	105	115	67-126	9	20
Ethylene glycol	20	U	20.	200	mg/l	95	84	78-136	12	20
Propylene glycol	20	U	20.	200	mg/l	90	80	65-132	12	20
Batch number: 112730033A	Sample number(s): 6421313									
Ethanol	200 U		200.	1,000	ug/l	108		78-116		
Isopropanol	200 U		200.	1,000	ug/l	100		75-125		
Methanol	200 U		200.	1,000	ug/l	100		76-122		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268676
Reported: 10/26/11 at 01:44 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 112760023A	Sample number(s): 6421299-6421301,6421303-6421311									
Ethanol	100 U		100.	500	ug/kg	98		71-129		
Isopropanol	100 U		100.	500	ug/kg	98		75-125		
Methanol	100 U		100.	500	ug/kg	99		68-129		
Batch number: 112770027A	Sample number(s): 6421299-6421301,6421305-6421311									
Diethylene glycol	5.0	U	5.0	10	mg/kg	95		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	97		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	86		67-131		
Batch number: 112730012A	Sample number(s): 6421313									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	78	84	61-108	8	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	78	82	75-125	5	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	78	82	63-110	5	20
Batch number: 112740003A	Sample number(s): 6421313									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	86	92	63-121	7	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	99	100	72-124	1	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	92	92	64-123	0	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	93	100	73-124	7	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	74	82	43-107	10	30
Batch number: 112790036A	Sample number(s): 6421299-6421301,6421303-6421311									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	101		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	106		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	103		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	102		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	87		49-107		
Batch number: 112790037A	Sample number(s): 6421299-6421301,6421303-6421311									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	100		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		69-109		
Batch number: 112721026001A	Sample number(s): 6421288-6421302,6421305-6421311									
Antimony	0.0725	U	0.0725	0.196	mg/kg	62		10-224		
Arsenic	0.0784	U	0.0784	0.392	mg/kg	104		78-122		
Beryllium	0.0157	U	0.0157	0.0980	mg/kg	105		80-120		
Cadmium	0.0431	U	0.0431	0.0980	mg/kg	104		81-119		
Chromium	0.118	U	0.118	0.392	mg/kg	113		77-123		
Cobalt	0.0196	U	0.0196	0.0980	mg/kg	101		80-119		
Copper	0.0875	J	0.0784	0.392	mg/kg	107		78-122		
Lead	0.0645	J	0.0100	0.196	mg/kg	103		77-123		
Nickel	0.0980	U	0.0980	0.392	mg/kg	109		80-120		
Silver	0.0139	U	0.0139	0.0980	mg/kg	103		66-134		
Thallium	0.0294	U	0.0294	0.0980	mg/kg	104		75-124		
Vanadium	0.0216	U	0.0216	0.0980	mg/kg	116		76-124		
Zinc	0.549	U	0.549	2.94	mg/kg	108		79-121		
Batch number: 112721026001B	Sample number(s): 6421288-6421302,6421305-6421311									
Selenium	0.0569	U	0.0569	0.392	mg/kg	108		77-123		
Batch number: 112721026001C	Sample number(s): 6421288-6421302,6421305-6421311									
Molybdenum	0.0490	U	0.0490	0.0980	mg/kg	103		76-123		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268676
Reported: 10/26/11 at 01:44 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 112721026001D	Sample number(s): 6421288-6421302,6421305-6421311								
Barium	0.104 U	0.104	0.392	mg/kg	103		80-120		
Batch number: 112725708001	Sample number(s): 6421288-6421302,6421305-6421311								
Aluminum	8.39 J	5.87	19.4	mg/kg	143		42-158		
Boron	0.350 U	0.350	4.85	mg/kg	106		66-134		
Calcium	7.16 J	2.43	19.4	mg/kg	107		79-121		
Iron	2.53 U	2.53	19.4	mg/kg	117		51-149		
Lithium	0.60 U	0.60	1.9	mg/kg	102		80-120		
Magnesium	0.427 U	0.427	9.71	mg/kg	120		64-136		
Manganese	0.0466 J	0.0350	0.485	mg/kg	96		78-122		
Phosphorus	1.24 J	0.340	9.71	mg/kg	106		80-120		
Potassium	11.0 U	11.0	48.5	mg/kg	115		69-131		
Sodium	5.78 U	5.78	97.1	mg/kg	105		71-129		
Strontium	0.0262 J	0.0243	0.485	mg/kg	101		81-119		
Tin	1.35 J	0.311	9.71	mg/kg	92		74-126		
Zirconium	0.447 U	0.447	4.85	mg/kg	104		80-120		
Batch number: 112725711001	Sample number(s): 6421288-6421302,6421305-6421311								
Mercury	0.0067 U	0.0067	0.0955	mg/kg	100		72-128		
Batch number: 112781848003	Sample number(s): 6421313								
Aluminum	0.0801 U	0.0801	0.200	mg/l	99	97	90-112	1	20
Boron	0.0022 U	0.0022	0.0500	mg/l	94	94	89-110	1	20
Calcium	0.0705 U	0.0705	0.200	mg/l	103	103	90-110	0	20
Iron	0.0141 U	0.0141	0.200	mg/l	99	99	90-112	0	20
Lithium	0.0076 U	0.0076	0.0200	mg/l	98	98	90-110	0	20
Magnesium	0.0067 U	0.0067	0.100	mg/l	100	100	90-110	0	20
Manganese	0.00044 U	0.00044	0.0050	mg/l	102	101	90-110	0	20
Phosphorus	0.0047 U	0.0047	0.100	mg/l	98	98	90-110	0	20
Potassium	0.0874 U	0.0874	0.500	mg/l	101	101	85-115	0	20
Sodium	0.0647 U	0.0647	1.00	mg/l	96	95	87-114	1	20
Strontium	0.00022 J	0.00022	0.0050	mg/l	100	99	90-110	1	20
Tin	0.0043 U	0.0043	0.0200	mg/l	98	98	90-110	1	20
Titanium	0.00046 U	0.00046	0.0100	mg/l	101	99	90-113	1	20
Zirconium	0.0042 U	0.0042	0.0500	mg/l	101	101	90-110	1	20
Batch number: 112785713001	Sample number(s): 6421313								
Mercury	0.000042 J	0.00002 6	0.00020	mg/l	102	107	80-120	5	20
Batch number: 112786050001A	Sample number(s): 6421313								
Antimony	0.00042 U	0.00042	0.0010	mg/l	108	107	87-110	0	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	109	102	86-111	7	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	107	106	90-113	0	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	105	105	90-114	0	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	106	105	90-118	1	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	101	102	87-113	2	20
Copper	0.00038 U	0.00038	0.0020	mg/l	107	107	90-113	0	20
Lead	0.000080 U	0.00008 0	0.0010	mg/l	102	106	90-115	3	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	105	107	90-113	1	20
Silver	0.000098 U	0.00009 8	0.00050	mg/l	107	108	90-115	1	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	97	105	89-116	7	20
Vanadium	0.00018 U	0.00018	0.00050	mg/l	103	104	89-116	2	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	106	104	90-116	2	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268676
Reported: 10/26/11 at 01:44 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 112786050001B	Sample number(s): 6421313								
Selenium	0.00027 U	0.00027	0.0020	mg/l	110	114	85-114	3	20
Batch number: 112786050001C	Sample number(s): 6421313								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	106	105	89-115	1	20
Batch number: 112786050001D	Sample number(s): 6421313								
Barium	0.00069 U	0.00069	0.0020	mg/l	108	104	88-113	4	20
Batch number: 112845708002	Sample number(s): 6421288-6421302,6421305-6421311								
Titanium	0.0710 U	0.0710	1.00	mg/kg	81		80-120		
Batch number: 11271196901B	Sample number(s): 6421313								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	90	90	90-110	0	20
11b Anions by 300.0 - Nitrate	0.050 U	0.050	0.10	mg/l	95	96	90-110	1	20
Batch number: 11271281401A	Sample number(s): 6421313								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	101	101	90-110	0	20
Batch number: 11272281101A	Sample number(s): 6421313								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	95	107	85-115	12	20
Batch number: 11276117102B	Sample number(s): 6421313								
16b Cyanide by 9012B	0.0050 U	0.0050	0.010	mg/l	104	104	90-110	0	20
Batch number: 11277621203A	Sample number(s): 6421288-6421297								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	111		85-115		
Batch number: 11277621203B	Sample number(s): 6421298-6421300,6421302,6421305-6421311								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	111		85-115		
Batch number: 11279621201A	Sample number(s): 6421288-6421297								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	95		90-110		
Batch number: 11279621201B	Sample number(s): 6421298-6421300,6421302,6421305-6421311								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	95		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	95		90-110		
Batch number: 11280243201A	Sample number(s): 6421288-6421300,6421302,6421305-6421311								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	89		80-120		
Batch number: 11273020001A	Sample number(s): 6421313								
17b pH by 9040B					100	100	90-110	0	3
Batch number: 11284039402A	Sample number(s): 6421288-6421296								
17a pH by 9045C					100		95-105		
Batch number: 11284039402B	Sample number(s): 6421297-6421299,6421302,6421305-6421311								
17a pH by 9045C					100		95-105		
Batch number: 11278162401A	Sample number(s): 6421288-6421303								
28a Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Batch number: 11278162401B	Sample number(s): 6421305-6421311								
Moisture Content by 160.3					100		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268676
Reported: 10/26/11 at 01:44 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: E112722AA	Sample number(s): 6421313 UNSPK: P422276								
1,4-Dioxane	135	134	73-138	0	30				
Batch number: 11279SLC026	Sample number(s): 6421288-6421301,6421305-6421311 UNSPK: 6421299								
Acenaphthene	98	100	75-115	2	30				
Acenaphthylene	107	110	81-110	3	30				
Aniline	65	71	18-116	8	30				
Anthracene	108	108	75-115	0	30				
Benzidine	21*	25*	35-141	17	30				
Benzo(a)anthracene	106	112	65-122	5	30				
Benzo(a)pyrene	109	114	57-126	4	30				
Benzo(b)fluoranthene	113	112	59-125	1	30				
Benzo(g,h,i)perylene	114	115	59-127	1	30				
Benzo(k)fluoranthene	108	103	56-132	4	30				
Benzoic acid	16	0*	10-173	200*	30				
Benzyl alcohol	96	97	67-115	1	30				
4-Bromophenyl-phenylether	107	107	67-129	0	30				
Butylbenzylphthalate	106	106	73-134	0	30				
Di-n-butylphthalate	109	108	67-123	0	30				
Carbazole	102	103	64-120	1	30				
4-Chloro-3-methylphenol	103	102	62-122	1	30				
4-Chloroaniline	41	62	13-107	42*	30				
bis(2-Chloroethoxy)methane	96	96	75-104	0	30				
bis(2-Chloroethyl)ether	91	94	60-116	2	30				
bis(2-Chloroisopropyl)ether	92	93	55-142	1	30				
2-Chloronaphthalene	89	91	50-141	2	30				
2-Chlorophenol	97	99	73-121	2	30				
4-Chlorophenyl-phenylether	101	102	80-109	1	30				
Chrysene	95	100	62-128	5	30				
Dibenz(a,h)anthracene	115	117	65-125	2	30				
Dibenzofuran	96	98	71-112	2	30				
1,2-Dichlorobenzene	88	88	66-108	0	30				
1,3-Dichlorobenzene	87	85	63-109	2	30				
1,4-Dichlorobenzene	86	85	58-108	0	30				
3,3'-Dichlorobenzidine	53	82	28-109	43*	30				
2,4-Dichlorophenol	101	101	66-123	0	30				
Diethylphthalate	104	104	66-118	0	30				
2,4-Dimethylphenol	99	99	68-118	0	30				
3,5-Dimethylphenol	108	107	71-127	1	30				
Dimethylphthalate	102	102	64-118	1	30				
4,6-Dinitro-2-methylphenol	63	46	11-126	30	30				
2,4-Dinitrophenol	36	20	20-143	56*	30				
2,4-Dinitrotoluene	102	102	56-129	0	30				
2,6-Dinitrotoluene	106	108	69-123	2	30				
1,2-Diphenylhydrazine	103	103	71-129	0	30				
bis(2-Ethylhexyl)phthalate	109	116	63-122	6	30				
Fluoranthene	109	112	73-112	3	30				
Fluorene	104	107	63-121	3	30				
Hexachlorobenzene	106	105	77-114	0	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268676
Reported: 10/26/11 at 01:44 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Hexachlorobutadiene	94	94	62-120	1	30				
Hexachlorocyclopentadiene	87	76	10-153	14	30				
Hexachloroethane	87	85	57-109	2	30				
Indeno(1,2,3-cd)pyrene	114	116	61-126	2	30				
Isophorone	97	97	73-102	1	30				
1-Methylnaphthalene	94	95	64-122	1	30				
2-Methylnaphthalene	97	96	76-114	1	30				
2-Methylphenol	99	102	75-111	3	30				
4-Methylphenol	93	97	59-123	4	30				
Naphthalene	92	93	72-116	1	30				
2-Nitroaniline	106	108	67-125	2	30				
3-Nitroaniline	101	103	59-122	2	30				
4-Nitroaniline	77	83	41-109	7	30				
Nitrobenzene	94	95	57-125	1	30				
2-Nitrophenol	96	95	56-127	1	30				
4-Nitrophenol	83	85	37-129	2	30				
N-Nitroso-di-n-propylamine	91	94	60-116	3	30				
N-Nitrosodimethylamine	81	81	47-116	1	30				
N-Nitrosodiphenylamine	107	106	71-122	1	30				
Di-n-octylphthalate	120	116	56-126	3	30				
Pentachlorophenol	46	43	28-127	7	30				
Phenanthrene	101	102	65-125	1	30				
Phenol	94	97	58-126	2	30				
Pyrene	101	103	74-126	2	30				
1,2,4-Trichlorobenzene	95	93	72-115	2	30				
2,4,5-Trichlorophenol	102	104	58-129	2	30				
2,4,6-Trichlorophenol	105	107	56-134	2	30				
Batch number: 11279SLD026	Sample number(s): 6421288-6421301,6421305-6421311 UNSPK: 6421299								
Acenaphthene	96	94	63-105	3	30				
Acenaphthylene	90	91	67-114	0	30				
Anthracene	97	96	73-115	2	30				
Benzo(a)anthracene	102	97	59-128	5	30				
Benzo(a)pyrene	105	100	58-142	5	30				
Benzo(b)fluoranthene	103	101	54-163	2	30				
Benzo(g,h,i)perylene	88	77	33-141	13	30				
Benzo(k)fluoranthene	106	104	57-153	3	30				
Butylbenzylphthalate	114	92	57-173	23	30				
Di-n-butylphthalate	117	103	65-148	14	30				
Chrysene	101	95	67-123	7	30				
Dibenz(a,h)anthracene	93	81	22-133	14	30				
Diethylphthalate	103	95	70-136	9	30				
Dimethylphthalate	101	97	74-118	4	30				
Bis(2-Ethylhexyl)phthalate	-27*	-39*	39-167	9	30				
Fluoranthene	105	101	51-149	4	30				
Fluorene	97	97	66-122	1	30				
Indeno(1,2,3-cd)pyrene	92	81	21-143	14	30				
1-Methylnaphthalene	88	88	72-123	1	30				
2-Methylnaphthalene	88	87	64-103	1	30				
Naphthalene	90	88	61-102	3	30				
N-Nitrosodimethylamine	86	277*	48-113	105*	30				
Di-n-octylphthalate	117	104	40-192	12	30				
Phenanthrene	93	94	62-122	0	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268676
Reported: 10/26/11 at 01:44 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Pyrene	101	97	51-131	5	30				
Batch number: 11280SLB026	Sample number(s): 6421299-6421301,6421305-6421311 UNSPK: 6421299								
N-Nitrosodimethylamine	134*	100	70-130	29	30				
Batch number: 11274A34A	Sample number(s): 6421299-6421301,6421305,6421308-6421311 UNSPK: 6421299								
9a TPH by EPA 8015B Gas C5-C12	77	77	39-118	9	30				
Batch number: 112720027A	Sample number(s): 6421313 UNSPK: P421360								
20b Formaldehyde 8315A	102	104	80-120	2	30				
Batch number: 112740006A	Sample number(s): 6421299-6421301,6421305-6421311 UNSPK: 6421299								
20a Formaldehyde 8315A	107	109	80-120	2	50				
Batch number: 112780016A	Sample number(s): 6421288-6421297 UNSPK: P418446								
2,4-D	139	106	17-180	27	35				
Dalapon	87	45	10-125	62*	50				
2,4-DB	434*	94	10-201	119*	50				
Dicamba	66	48	10-190	15	50				
Dinoseb	20	19	10-46	5	35				
2,4-DP (Dichlorprop)	87	100	33-178	13	50				
MCPA	20	40	10-213	67*	50				
MCPP (Mecoprop)	53	72	10-184	32	50				
2,4,5-T	49	53	10-156	7	35				
2,4,5-TP	73	76	24-141	3	35				
Batch number: 112830002A	Sample number(s): 6421298 UNSPK: P426110								
2,4-D	47	38	17-180	20	35				
Dalapon	0*	0*	10-125	0	50				
2,4-DB	57	52	10-201	10	50				
Dicamba	52	52	10-190	0	50				
Dinoseb	9*	15	10-46	43*	35				
2,4-DP (Dichlorprop)	82	73	33-178	11	50				
MCPA	126	60	10-213	71*	50				
MCPP (Mecoprop)	44	23	10-184	38	50				
2,4,5-T	12	46	10-156	117*	35				
2,4,5-TP	53	46	24-141	15	35				
Batch number: 112790038A	Sample number(s): 6421288-6421301,6421303-6421311 UNSPK: 6421299								
PCB-1016	100	123	29-146	21	50				
PCB-1260	98	122	39-149	21	50				
Batch number: 112730033A	Sample number(s): 6421313 UNSPK: P421398								
Ethanol	108	104	62-145	4	20				
Isopropanol	96	92	73-131	4	20				
Methanol	103	91	52-159	11	20				
Batch number: 112760023A	Sample number(s): 6421299-6421301,6421303-6421311 UNSPK: 6421299								
Ethanol	85	90	48-130	6	20				
Isopropanol	100	92	12-149	9	20				
Methanol	100	91	43-138	9	20				
Batch number: 112770027A	Sample number(s): 6421299-6421301,6421305-6421311 UNSPK: 6421299								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268676
Reported: 10/26/11 at 01:44 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Diethylene glycol	12*	16*	59-109	28*	20				
Ethylene glycol	49*	55*	63-107	11	20				
Propylene glycol	55*	59*	63-107	7	20				
Batch number: 112790036A	Sample number(s): 6421299-6421301,6421303-6421311 UNSPK: 6421299								
EFH (C12-C14)	95	101	49-123	5	20				
EFH (C15-C20)	110	91	49-123	13	20				
EFH (C21-C30)	-50*	35*	49-123	22*	20				
EFH (C30 - C40)	-175 (2)	-220 (2)	49-123	6	20				
EFH (C8-C11)	90	87	49-123	5	20				
Batch number: 112790037A	Sample number(s): 6421299-6421301,6421303-6421311 UNSPK: 6421299								
m-Terphenyl	91	96	75-125	6	20				
o-Terphenyl	93	99	75-125	6	20				
p-Terphenyl	92	98	75-125	6	20				
Batch number: 112721026001A	Sample number(s): 6421288-6421302,6421305-6421311 UNSPK: 6421299 BKG: 6421299								
Antimony	35*	30*	75-125	14	20	0.0900 J	0.0725 U	200* (1)	20
Arsenic	103	105	75-125	0	20	3.67	3.60	2	20
Beryllium	86	85	75-125	2	20	0.477	0.448	6 (1)	20
Cadmium	102	98	75-125	6	20	0.0864 J	0.0752 J	14 (1)	20
Chromium	90	83	75-125	4	20	14.4	13.5	7	20
Cobalt	93	92	75-125	4	20	4.53	4.60	1	20
Copper	101	89	75-125	9	20	6.82	6.46	5	20
Lead	103	95	75-125	4	20	4.58	4.29	6	20
Nickel	103	93	75-125	7	20	8.91	8.74	2	20
Silver	98	97	75-125	4	20	0.0224 J	0.0229 J	2 (1)	20
Thallium	100	93	75-125	6	20	0.229	0.213	7 (1)	20
Vanadium	91	88	75-125	1	20	29.1	27.8	5	20
Zinc	113 (2)	83 (2)	75-125	5	20	50.5	52.7	4	20
Batch number: 112721026001B	Sample number(s): 6421288-6421302,6421305-6421311 UNSPK: 6421299 BKG: 6421299								
Selenium	93	96	75-125	0	20	0.153 J	0.100 J	42* (1)	20
Batch number: 112721026001C	Sample number(s): 6421288-6421302,6421305-6421311 UNSPK: 6421299 BKG: 6421299								
Molybdenum	92	92	75-125	3	20	0.587	0.401	38* (1)	20
Batch number: 112721026001D	Sample number(s): 6421288-6421302,6421305-6421311 UNSPK: 6421299 BKG: 6421299								
Barium	115 (2)	154 (2)	75-125	4	20	73.0	76.3	4	20
Batch number: 112725708001	Sample number(s): 6421288-6421302,6421305-6421311 UNSPK: 6421299 BKG: 6421299								
Aluminum	361 (2)	988 (2)	75-125	8	20	13,000	12,800	2	20
Boron	94	97	84-115	1	20	6.61	6.25	6 (1)	20
Calcium	-278 (2)	-149 (2)	75-125	13	20	4,930	3,340	38*	20
Iron	-889 (2)	837 (2)	75-125	10	20	17,400	17,800	2	20
Lithium	97	101	82-114	1	20	22.5	24.0	7	20
Magnesium	100 (2)	279 (2)	75-125	8	20	4,010	4,230	6	20
Manganese	54 (2)	98 (2)	75-125	7	20	247	236	4	20
Phosphorus	75	92	75-125	3	20	339	314	8	20
Potassium	106	125	75-125	4	20	2,550	2,740	7	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268676
Reported: 10/26/11 at 01:44 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Sodium	89	92	75-125	2	20	98.3		91.4	J	7 (1)	20
Strontium	86	90	75-115	2	20	25.0		15.4		47*	20
Tin	87	88	80-110	0	20	0.801	J	0.751	J	6 (1)	20
Zirconium	96	98	81-110	0	20	1.32	J	2.02	J	42* (1)	20
Batch number: 112725711001	Sample number(s): 6421288-6421302,6421305-6421311 UNSPK: 6421299 BKG: 6421299										
Mercury	102	100	65-135	1	20	0.0068	U	0.0069	U	0 (1)	20
Batch number: 112845708002	Sample number(s): 6421288-6421302,6421305-6421311 UNSPK: 6421299 BKG: 6421299										
Titanium	205 (2)	230 (2)	75-125	3	20	1,010		1,020		2	20
Batch number: 11271281401A	Sample number(s): 6421313 UNSPK: P421131 BKG: P421131										
3b Cr VI by EPA 7199	90		59-135			5.0	U	5.0	U	0 (1)	20
Batch number: 11277621203A	Sample number(s): 6421288-6421297 UNSPK: 6421288 BKG: 6421288										
7a Perchlorate EPA 314.0	115		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11277621203B	Sample number(s): 6421298-6421300,6421302,6421305-6421311 UNSPK: 6421299 BKG: 6421299										
7a Perchlorate EPA 314.0	113		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11279621201A	Sample number(s): 6421288-6421297 UNSPK: 6421288 BKG: 6421288										
11a Anions by 300.0 - Fluoride	44*		80-120			1.9		1.7		11 (1)	20
Batch number: 11279621201B	Sample number(s): 6421298-6421300,6421302,6421305-6421311 UNSPK: 6421299 BKG: 6421299										
11a Anions by 300.0 - Fluoride	61*		80-120			3.5		3.4		4 (1)	20
11a Anions by 300.0 - Nitrate	83		80-120			1.6		1.2	J	28* (1)	20
Batch number: 11280243201A	Sample number(s): 6421288-6421300,6421302,6421305-6421311 UNSPK: 6421299 BKG: 6421299										
3a Cr VI by EPA 7199	86		75-125			0.20	U	0.62	J	200* (1)	20
Batch number: 11284039402A	Sample number(s): 6421288-6421296 BKG: 6421288										
17a pH by 9045C						5.96		5.93		1	3
Batch number: 11284039402B	Sample number(s): 6421297-6421299,6421302,6421305-6421311 BKG: 6421299										
17a pH by 9045C						8.37		8.47		1	3
Batch number: 11278162401A	Sample number(s): 6421288-6421303 BKG: 6421299										
28a Moisture Content by 160.3						4.6		4.8		3	20
Moisture Content by 160.3						4.6		4.8		3	20
Moisture Content by 160.3						4.6		4.8		3	20
Batch number: 11278162401B	Sample number(s): 6421305-6421311 BKG: 6421310										
Moisture Content by 160.3						9.2		8.3		11	20

Surrogate Quality Control

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268676
Reported: 10/26/11 at 01:44 PM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E112722AA

	Toluene-d8
6421313	101
Blank	101
LCS	101
MS	101
MSD	101
Limits:	80-120

Analysis Name: 1b Volatile Organics EPA8260B
Batch number: Y112722AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6421313	98	99	99	98
Blank	98	101	99	98
LCS	99	103	100	99
LCSD	100	103	100	99
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 21b NDMA by 1625C
Batch number: 11269WAA026

	N-Nitrosodimethylamine-d6
6421313	277*
Blank	135
LCS	150
LCSD	137
Limits:	50-150

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11274WAB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6421313	92	90	92
Blank	106	99	103
LCS	112	93	94
LCSD	111	92	93
Limits:	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11276WAC026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6421313	62	35	97	97	98	86
Blank	63	42	94	96	94	85
LCS	77	53	103	108	104	93
LCSD	74	50	92	96	94	83

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268676
Reported: 10/26/11 at 01:44 PM

Surrogate Quality Control

Limits: 20-130 20-120 30-130 40-130 45-130 45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11279SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6421288	96	99	90	89	96	93
6421289	94	96	102	89	95	94
6421290	97	99	94	91	96	94
6421291	93	96	95	90	95	93
6421292	97	98	91	91	98	94
6421293	92	92	88	86	91	91
6421294	102	104	96	94	98	93
6421295	96	98	93	90	95	92
6421296	92	95	89	89	92	91
6421297	93	94	86	89	95	93
6421298	91	94	89	86	93	91
6421299	90	93	96	86	92	92
6421300	93	95	106	91	96	95
6421301	95	99	105	91	97	96
6421305	91	93	97	86	94	94
6421306	89	90	74	84	90	89
6421307	92	93	85	87	94	97
6421308	90	92	100	87	96	97
6421309	89	92	81	85	93	90
6421310	91	95	98	88	95	94
6421311	91	93	95	89	97	94
Blank	85	89	98	86	93	93
LCS	90	93	104	88	94	91
MS	93	95	106	91	96	95
MSD	95	99	105	91	97	96

Limits: 25-120 25-130 35-130 40-130 45-130 45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11279SLD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6421288	106	84	85
6421289	100	87	93
6421290	102	87	88
6421291	101	88	91
6421292	98	84	90
6421293	98	86	92
6421294	109	91	93
6421295	102	92	89
6421296	88	79	79
6421297	105	92	95
6421298	99	87	91
6421299	94	85	93
6421300	104	85	92
6421301	103	87	89
6421305	94	85	85
6421306	99	91	91
6421307	97	87	86
6421308	96	87	86
6421309	99	90	88

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268676
Reported: 10/26/11 at 01:44 PM

Surrogate Quality Control

6421310	89	83	82
6421311	97	88	94
Blank	87	82	92
LCS	102	86	91
MS	104	85	92
MSD	103	87	89
Limits:	40-130	45-130	45-135

Analysis Name: 21a NDMA by 1625C
Batch number: 11280SLB026

	N-Nitrosodimethylamine-d6
6421299	119
6421300	110
6421301	106
6421305	130
6421306	139
6421307	106
6421308	117
6421309	114
6421310	118
6421311	123
Blank	125
LCS	129
MS	110
MSD	106
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11274A34A

	Trifluorotoluene-F
6421299	105
6421300	96
6421301	98
6421305	92
6421308	97
6421309	94
6421310	92
6421311	98
Blank	96
LCS	92
MS	96
MSD	98
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11278B20A

	Trifluorotoluene-F
6421312	86
6421313	84
Blank	87

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268676
Reported: 10/26/11 at 01:44 PM

Surrogate Quality Control

LCS 117
LCSD 115

Limits: 63-135

Analysis Name: 20b Formaldehyde 8315A
Batch number: 112720027A

	Butyraldehyde
6421313	94
Blank	90
LCS	98
MS	103
MSD	93

Limits: 45-145

Analysis Name: 20a Formaldehyde 8315A
Batch number: 112740006A

	Butyraldehyde
6421299	98
6421300	96
6421301	94
6421305	82
6421306	90
6421307	101
6421308	100
6421309	92
6421310	83
6421311	95
Blank	89
LCS	92
MS	96
MSD	94

Limits: 64-126

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 112740023A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6421313	114	83
Blank	110	105
LCS	113	94
LCSD	106	107

Limits: 30-150 45-120

Analysis Name: 15b Energetics by 8330A
Batch number: 112760016A

	2-Nitro-m-xylene
6421313	94
Blank	103
LCS	98
LCSD	99

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268676
Reported: 10/26/11 at 01:44 PM

Surrogate Quality Control

Limits: 50-134

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 112780016A

	2,4-Dichlorophenylacetic acid
6421288	70
6421289	107
6421290	106
6421291	84
6421292	87
6421293	85
6421294	105
6421295	99
6421296	86
6421297	124
Blank	98
LCS	99
MS	100
MSD	96

Limits: 36-156

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112790038A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6421288	99	107
6421289	88	98
6421290	96	107
6421291	106	117
6421292	95	102
6421293	100	112
6421294	114	123*
6421295	154*	155*
6421296	88	96
6421297	104	111
6421298	112	119
6421299	152*	135*
6421300	108	105
6421301	132	123*
6421303	110	100
6421304	100	105
6421305	113	107
6421306	103	99
6421307	104	100
6421308	100	97
6421309	104	98
6421310	103	105
6421311	107	84
Blank	111	120
LCS	115	134*
LCSD	122	127*
MS	108	105
MSD	132	123*

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268676
Reported: 10/26/11 at 01:44 PM

Surrogate Quality Control

Limits:	53-139	45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 112790039A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6421288	54	110
6421289	57	79
6421290	65	127*
6421291	79	92
6421292	58	85
6421293	59	86
6421294	56	80
6421295	46*	74
6421296	59	84
6421297	61	93
6421298	69	90
Blank	40*	112
LCS	77	127*
LCSD	57	109
Limits:	50-130	20-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 112830002A

	2,4-Dichlorophenylacetic acid
6421298	129
Blank	86
LCS	90
MS	61
MSD	49
Limits:	36-156

Analysis Name: 19b Glycols by 8015B
Batch number: 112710013A

	Tetramethylene glycol
6421313	122
Blank	117
LCS	106
LCSD	107
Limits:	29-157

Analysis Name: 22b Terphenyls by 8015B
Batch number: 112730012A

	n-Triacontane-d62
6421313	62
Blank	67
LCS	59
LCSD	62

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268676
Reported: 10/26/11 at 01:44 PM

Surrogate Quality Control

Limits: 17-138

Analysis Name: 18b Alcohols by 8015B
Batch number: 112730033A

	Acetone
6421313	100
Blank	106
LCS	100
MS	99
MSD	99

Limits: 54-147

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 112740003A

	Chlorobenzene	Orthoterphenyl
6421313	79	91
Blank	80	91
LCS	110	98
LCSD	117	101

Limits: 28-152 52-131

Analysis Name: 18a Alcohols by 8015B
Batch number: 112760023A

	Acetone
6421299	102
6421300	99
6421301	93
6421303	98
6421304	103
6421305	89
6421306	96
6421307	91
6421308	97
6421309	90
6421310	93
6421311	97
Blank	101
LCS	99
MS	99
MSD	93

Limits: 42-138

Analysis Name: 19a Glycols by 8015B
Batch number: 112770027A

	Tetramethylene glycol
6421299	77
6421300	79
6421301	79
6421305	81
6421306	78

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268676
Reported: 10/26/11 at 01:44 PM

Surrogate Quality Control

6421307	79
6421308	78
6421309	79
6421310	78
6421311	79
Blank	90
LCS	91
MS	79
MSD	79
Limits:	29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112790036A

	Chlorobenzene	Orthoterphenyl
6421299	84	91
6421300	90	92
6421301	86	93
6421303	76	88
6421304	85	89
6421305	81	89
6421306	85	91
6421307	77	88
6421308	79	90
6421309	83	99
6421310	82	93
6421311	88	103
Blank	84	90
LCS	87	93
MS	90	92
MSD	86	93
Limits:	37-125	47-145

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112790037A

	n-Triacontane-d62
6421299	72
6421300	68
6421301	69
6421303	74
6421304	69
6421305	79
6421306	74
6421307	67
6421308	67
6421309	75
6421310	73
6421311	69
Blank	68
LCS	67
MS	68
MSD	69
Limits:	19-152

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Quality Control Summary

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Reported: 10/26/11 at 01:44 PM

Surrogate Quality Control

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1265676 Sample# 6421255-313

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SS ONLY		Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	
SL-004-SA5DS-SS-0.0-0.5	9/27/11	1415	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-004-SA5DS-SS-0.0-0.5	9/27/11	1415	SOIL	NONE	1-SS Sleeve			X	X								
SL-005-SA5DS-SS-0.0-0.5	9/27/11	1350	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-005-SA5DS-SS-0.0-0.5	9/27/11	1350	SOIL	NONE	1-SS Sleeve			X	X								
SL-006-SA5DS-SS-0.0-0.5	9/27/11	1130	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-006-SA5DS-SS-0.0-0.5	9/27/11	1130	SOIL	NONE	1-SS Sleeve			X	X								
SL-019-SA5DS-SS-0.0-0.5	9/27/11	1045	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-019-SA5DS-SS-0.0-0.5	9/27/11	1045	SOIL	NONE	1-SS Sleeve			X	X								
SL-020-SA5DS-SS-0.0-0.5	9/27/11	1110	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-020-SA5DS-SS-0.0-0.5	9/27/11	1110	SOIL	NONE	1-SS Sleeve			X	X								
SL-021-SA5DS-SS-0.0-0.5	9/27/11	1150	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-021-SA5DS-SS-0.0-0.5	9/27/11	1150	SOIL	NONE	1-SS Sleeve			X	X								
SL-022-SA5DS-SS-0.0-0.5	9/27/11	1440	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-022-SA5DS-SS-0.0-0.5	9/27/11	1440	SOIL	NONE	1-SS Sleeve			X	X								
SL-023-SA5DS-SS-0.0-0.5	9/27/11	0915	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-023-SA5DS-SS-0.0-0.5	9/27/11	0915	SOIL	NONE	1-SS Sleeve			X	X								
SL-024-SA5DS-SS-0.0-0.5	9/27/11	0845	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-024-SA5DS-SS-0.0-0.5	9/27/11	0845	SOIL	NONE	1-SS Sleeve			X	X								
SL-025-SA5DS-SS-0.0-0.5	9/27/11	0730	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-025-SA5DS-SS-0.0-0.5	9/27/11	0730	SOIL	NONE	1-SS Sleeve			X	X								
SL-038-SA5DS-SS-0.0-0.5	9/27/11	1500	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-038-SA5DS-SS-0.0-0.5	9/27/11	1500	SOIL	NONE	1-SS Sleeve			X	X								

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	09/27/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	9-28-11 900	8767 9858 3450; 8767 9858 3461 8767 9858 3472; 8767 9858 3483	NOTE: DO NOT ANALYZE SAMPLES FOR SL-003-SA5DS-SS-0.0-0.5. IT WAS COLLECTED IN ERROR

acct# 13013 Gp# 1763676 sample# 6421253-313

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 8 (SA8) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCT's EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dioxonal EPA 8270	Other Instructions and Notes
SL-103-SA7-SB-4.5MS	9/27/11	0835	SOIL	NONE	6-Encores										X											
SL-103-SA7-SB-4.0-5.0MS	9/27/11	0840	SOIL	NONE	9-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X			X	X	X	X	MS/MSD sample
SL-103-SA7-SB-9.5	9/27/11	0850	SOIL	NONE	2-Encores										X											MS/MSD sample
SL-103-SA7-SB-9.0-10.0	9/27/11	0855	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X			X	X	X	X	
SL-104-SA7-SB-4.5	9/27/11	1230	SOIL	NONE	2-Encores										X											
SL-104-SA7-SB-4.0-5.0	9/27/11	1235	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X			X	X	X	X	
SL-104-SA7-SB-9.5	9/27/11	1240	SOIL	NONE	2-Encores										X											
SL-104-SA7-SB-9.0-10.0	9/27/11	1245	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X			X	X	X	X	
SL-105-SA7-SB-4.5	9/27/11	1440	SOIL	NONE	2-Encores										X											
SL-105-SA7-SB-4.0-5.0	9/27/11	1445	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X			X	X	X	X	
SL-172-SA7-SB-4.5	9/27/11	1030	SOIL	NONE	2-Encores										X											
SL-172-SA7-SB-4.0-5.0	9/27/11	1035	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X			X	X	X	X	
SL-172-SA7-SB-9.5	9/27/11	1040	SOIL	NONE	2-Encores										X											
SL-172-SA7-SB-9.0-10.0	9/27/11	1045	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X			X	X	X	X	
DUP-08-SA7-QC-092711	9/27/11	0845	SOIL	NONE	2-Encores										X											
DUP-08-SA7-QC-092711	9/27/11	0845	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X			X	X	X	X	
TB-092711	9/27/11	1430	WATER	NONE	2-40mL vials										X											

Relinquished by: (*Signature*) — **Date/Time** 09/27/2011 / 1630 — **Received for Laboratory by: (*Signature*)**

Received by: (*Signature*) — **Date/Time** 9-27-11 — **Airbill No.(s)** 8767 9858 3450; 8767 9858 3461; 8767 9858 3472; 8767 9858 3483

Laboratory: Lancaster Laboratories, Inc.

acct# 13013 Gp# 1263676 sample# 6421258-313

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) and Subarea 6 (SA7), report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	
EB-SA7-SB-092711	09.27.11	1300	WATER	NONE	10-1 liter ambers			X	X	X							X			X	X		X			X	
EB-SA7-SB-092711	09.27.11	1300	WATER	NONE	1-500 mL poly		X				X	X	X														
EB-SA7-SB-092711	09.27.11	1300	WATER	HNO3	1-500 mL poly	X																					
EB-SA7-SB-092711	09.27.11	1300	WATER	NaOH	1-500 mL poly																	X					
EB-SA7-SB-092711	09.27.11	1300	WATER	NONE	2-125 mL ambers														X								
EB-SA7-SB-092711	09.27.11	1300	WATER	HCL	11-40 mL vials									X	X	X									X		
EB-SA7-SB-092711	09.27.11	1300	WATER	NONE	4-40 mL vials													X						X			

Relinquished by: (*Signature*) — Date/Time: 09/27/2011 / 1630 — Received for Laboratory by: (*Signature*)

Received by: (*Signature*) — Date/Time: 9-28-11 900 — Airbill No.(s): 8767 9858 3450; 8767 9858 3461; 8767 9858 3472; 8767 9858 3483

Laboratory:

Lancaster Laboratories, Inc.

Nicole Maljovec

From: Bloisa, Peggy [BloisaMJ@cdm.com]
Sent: Friday, September 30, 2011 2:22 PM
To: Nicole Maljovec
Cc: Hartman, Pamela
Subject: Error on SSFL COC dated 9/27/11
Attachments: COC_09_27_11 revised.xlsx

Found an error on my COC dated 9.27.11. Please change sample number DUP-08-SA7-QC-092711 to read as DUP-09-SA7-QC-092711. See attached revised COC.

Thanks! Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|


Please consider the environment before printing this email.

Nicole Maljovec

From: Bloisa, Peggy [BloisaMJ@cdm.com]
Sent: Thursday, September 29, 2011 5:30 PM
To: Nicole Maljovec
Subject: RE: SSFL COCs 9/27- encore issue for SL-104 @4.5 & 9.5

That is strange. My bad for missing that labeling error! Well, neither you nor I have any way of knowing which depth the filled encores are from, so I guess that we have no choice but to not analyze the ones that are filled. I will cross both of those samples off my COC.

Thanks for letting me know. Peggy

From: Nicole Maljovec [mailto:nmaljovec@lancasterlabs.com]
Sent: Thursday, September 29, 2011 2:14 PM
To: Bloisa, Peggy
Subject: FW: SSFL COCs 9/27- encore issue for SL-104 @4.5 & 9.5
Importance: High

Hi Peggy,
I apologize for not sending this to you yesterday. I have a two part issue for you.

Part 1: We received two encore bags labeled SL-104-SA7-SB-4.5 with a collection date of 9/27/11 and time of 12:30. The only difference on the label is one is in blank ink and the other is in blue ink. We did not receive any encores for SL-104-SB-9.5, so we assume of these belongs to 9.5.

Part 2: We attempted to prep both bags today to meet the holding time and discovered that the SL-104@4.5 bag with blue ink is empty. The encores in the blank ink bag have been prepped and are on hold until the identity is determined.

What do you want to do with this one?

Thanks!
Nicole

From: Bloisa, Peggy [mailto:BloisaMJ@cdm.com]
Sent: Tuesday, September 27, 2011 7:33 PM
To: Nicole Maljovec; SA Env Entry
Cc: Burgesser, Todd; Zakowski, Cherie; Laura Rainey; Hartman, Pamela
Subject: SSFL COCs for 9/26 and 9/27

Attached is today's COC and a revised COC for yesterday 9/26. The sample shown as SL-021-002-SA5DS-SS-0.0-0.5 collected at 1505 as shown on yesterdays COC should have been labeled as SL-001. The "real" SL-021 was sampled today.

Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|


Please consider the environment before printing this email.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 18, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/28/2011
Group Number: 1268681
SDG: DX145
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-103-SA7-SB-4.0-5.0 Soil	6421344
SL-103-SA7-SB-4.0-5.0MS Soil	6421345
SL-103-SA7-SB-4.0-5.0MSD Soil	6421346
SL-103-SA7-SB-9.0-10.0 Soil	6421347
SL-104-SA7-SB-4.0-5.0 Soil	6421348
SL-104-SA7-SB-9.0-10.0 Soil	6421349
SL-105-SA7-SB-4.0-5.0 Soil	6421350
SL-172-SA7-SB-4.0-5.0 Soil	6421351
SL-172-SA7-SB-9.0-10.0 Soil	6421352
DUP-09-SA7-QC-092711 Soil	6421353
EB-SA7-SB-092711 Water	6421354

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-103-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421344
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4501 SDG#: DX145-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-103-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421344
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4501 SDG#: DX145-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0318	U	0.0318	1.01	1
11031	12378-PeCDD	40321-76-4	0.0312	JQ	0.0248	5.03	1
11031	123478-HxCDD	39227-28-6	0.0855	JQ	0.0358	5.03	1
11031	123678-HxCDD	57653-85-7	0.353	JBQ	0.0350	5.03	1
11031	123789-HxCDD	19408-74-3	0.218	J	0.0357	5.03	1
11031	1234678-HpCDD	35822-46-9	11.8	B	0.0552	5.03	1
11031	OCDD	3268-87-9	117	B	0.0437	10.1	1
11031	2378-TCDF	51207-31-9	0.0315	JQ	0.0253	1.01	1
11031	12378-PeCDF	57117-41-6	0.0551	JBQ	0.0153	5.03	1
11031	23478-PeCDF	57117-31-4	0.0869	JBQ	0.0161	5.03	1
11031	123478-HxCDF	70648-26-9	0.116	JBQ	0.0244	5.03	1
11031	123678-HxCDF	57117-44-9	0.0983	JBQ	0.0203	5.03	1
11031	123789-HxCDF	72918-21-9	0.0704	JBQ	0.0267	5.03	1
11031	234678-HxCDF	60851-34-5	0.119	JBQ	0.0231	5.03	1
11031	1234678-HpCDF	67562-39-4	1.05	JB	0.0196	5.03	1
11031	1234789-HpCDF	55673-89-7	0.0996	JBQ	0.0354	5.03	1
11031	OCDF	39001-02-0	2.22	JB	0.0399	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	56	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-103-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421344
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4501 SDG#: DX145-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-103-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421344
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4501 SDG#: DX145-01BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280002	10/12/2011 00:05	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280002	10/09/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162401A	10/05/2011 19:53	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-103-SA7-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421345
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4501 SDG#: DX145-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-103-SA7-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421345
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4501 SDG#: DX145-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	20.5		0.0575	1.04	1
11031	12378-PeCDD	40321-76-4	105		0.0565	5.20	1
11031	123478-HxCDD	39227-28-6	105		0.0740	5.20	1
11031	123678-HxCDD	57653-85-7	101	B	0.0709	5.20	1
11031	123789-HxCDD	19408-74-3	102		0.0740	5.20	1
11031	1234678-HpCDD	35822-46-9	135	B	0.110	5.20	1
11031	OCDD	3268-87-9	586	B	0.106	10.4	1
11031	2378-TCDF	51207-31-9	20.0		0.0539	1.04	1
11031	12378-PeCDF	57117-41-6	103	B	0.0414	5.20	1
11031	23478-PeCDF	57117-31-4	100	B	0.0411	5.20	1
11031	123478-HxCDF	70648-26-9	102	B	0.0966	5.20	1
11031	123678-HxCDF	57117-44-9	102	B	0.0847	5.20	1
11031	123789-HxCDF	72918-21-9	102	B	0.109	5.20	1
11031	234678-HxCDF	60851-34-5	102	B	0.0885	5.20	1
11031	1234678-HpCDF	67562-39-4	103	B	0.0625	5.20	1
11031	1234789-HpCDF	55673-89-7	102	B	0.105	5.20	1
11031	OCDF	39001-02-0	213	B	0.0858	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	93	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	69	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-103-SA7-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421345
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4501 SDG#: DX145-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-103-SA7-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421345
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4501 SDG#: DX145-01MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280002	10/12/2011 01:02	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280002	10/09/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162401A	10/05/2011 19:53	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-103-SA7-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421346
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4501 SDG#: DX145-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-103-SA7-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421346
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X4501 SDG#: DX145-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.2		0.0626	1.04	1
11031	12378-PeCDD	40321-76-4	105		0.0615	5.22	1
11031	123478-HxCDD	39227-28-6	104		0.0745	5.22	1
11031	123678-HxCDD	57653-85-7	101	B	0.0748	5.22	1
11031	123789-HxCDD	19408-74-3	103		0.0765	5.22	1
11031	1234678-HpCDD	35822-46-9	122	B	0.0987	5.22	1
11031	OCDD	3268-87-9	413	B	0.108	10.4	1
11031	2378-TCDF	51207-31-9	20.0		0.0532	1.04	1
11031	12378-PeCDF	57117-41-6	102	B	0.0444	5.22	1
11031	23478-PeCDF	57117-31-4	101	B	0.0455	5.22	1
11031	123478-HxCDF	70648-26-9	102	B	0.105	5.22	1
11031	123678-HxCDF	57117-44-9	99.7	B	0.0929	5.22	1
11031	123789-HxCDF	72918-21-9	98.2	B	0.124	5.22	1
11031	234678-HxCDF	60851-34-5	103	B	0.105	5.22	1
11031	1234678-HpCDF	67562-39-4	101	B	0.0631	5.22	1
11031	1234789-HpCDF	55673-89-7	102	B	0.109	5.22	1
11031	OCDF	39001-02-0	205	B	0.0781	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	101	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	76	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-103-SA7-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421346
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4501 SDG#: DX145-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-103-SA7-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-4.0-5.0

LLI Sample # SW 6421346
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:40

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4501 SDG#: DX145-01MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280002	10/12/2011 05:01	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280002	10/09/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162401A	10/05/2011 19:53	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-103-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-9.0-10.0

LLI Sample # SW 6421347
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:55

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4502 SDG#: DX145-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-103-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-9.0-10.0

LLI Sample # SW 6421347
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:55

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4502 SDG#: DX145-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0361	U	0.0361	1.08	1
11031	12378-PeCDD	40321-76-4	0.0568	JQ	0.0290	5.41	1
11031	123478-HxCDD	39227-28-6	0.0361	JQ	0.0299	5.41	1
11031	123678-HxCDD	57653-85-7	0.152	JBQ	0.0284	5.41	1
11031	123789-HxCDD	19408-74-3	0.109	JQ	0.0282	5.41	1
11031	1234678-HpCDD	35822-46-9	2.46	JB	0.0458	5.41	1
11031	OCDD	3268-87-9	23.1	B	0.0385	10.8	1
11031	2378-TCDF	51207-31-9	0.0540	JQ	0.0280	1.08	1
11031	12378-PeCDF	57117-41-6	0.0811	JBQ	0.0193	5.41	1
11031	23478-PeCDF	57117-31-4	0.0455	JBQ	0.0195	5.41	1
11031	123478-HxCDF	70648-26-9	0.114	JBQ	0.0262	5.41	1
11031	123678-HxCDF	57117-44-9	0.0509	JBQ	0.0212	5.41	1
11031	123789-HxCDF	72918-21-9	0.0409	JBQ	0.0253	5.41	1
11031	234678-HxCDF	60851-34-5	0.0833	JBQ	0.0209	5.41	1
11031	1234678-HpCDF	67562-39-4	0.405	JBQ	0.0209	5.41	1
11031	1234789-HpCDF	55673-89-7	0.0995	JBQ	0.0359	5.41	1
11031	OCDF	39001-02-0	0.814	JB	0.0479	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	58	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-103-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-9.0-10.0

LLI Sample # SW 6421347
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:55

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4502 SDG#: DX145-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-103-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-9.0-10.0

LLI Sample # SW 6421347
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:55

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4502 SDG#: DX145-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280002	10/12/2011 05:58	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280002	10/09/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162401B	10/05/2011 19:53	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-104-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-104-SA7-SB-4.0-5.0

LLI Sample # SW 6421348
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 12:35

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4503 SDG#: DX145-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-104-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-104-SA7-SB-4.0-5.0

LLI Sample # SW 6421348
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 12:35

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4503 SDG#: DX145-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0271	U	0.0271	1.00	1
11031	12378-PeCDD	40321-76-4	0.0584	JQ	0.0252	5.02	1
11031	123478-HxCDD	39227-28-6	0.0909	JQ	0.0376	5.02	1
11031	123678-HxCDD	57653-85-7	0.670	JB	0.0382	5.02	1
11031	123789-HxCDD	19408-74-3	0.329	JQ	0.0400	5.02	1
11031	1234678-HpCDD	35822-46-9	15.0	B	0.0725	5.02	1
11031	OCDD	3268-87-9	137	B	0.0554	10.0	1
11031	2378-TCDF	51207-31-9	0.0232	U	0.0232	1.00	1
11031	12378-PeCDF	57117-41-6	0.0315	JBQ	0.0145	5.02	1
11031	23478-PeCDF	57117-31-4	0.106	JBQ	0.0156	5.02	1
11031	123478-HxCDF	70648-26-9	0.118	JBQ	0.0317	5.02	1
11031	123678-HxCDF	57117-44-9	0.0730	JB	0.0263	5.02	1
11031	123789-HxCDF	72918-21-9	0.0724	JB	0.0349	5.02	1
11031	234678-HxCDF	60851-34-5	0.159	JB	0.0292	5.02	1
11031	1234678-HpCDF	67562-39-4	1.82	JB	0.0192	5.02	1
11031	1234789-HpCDF	55673-89-7	0.183	JB	0.0339	5.02	1
11031	OCDF	39001-02-0	4.91	JB	0.0367	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	95	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	67	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-104-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-104-SA7-SB-4.0-5.0

LLI Sample # SW 6421348
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 12:35

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4503 SDG#: DX145-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-104-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-104-SA7-SB-4.0-5.0

LLI Sample # SW 6421348
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 12:35

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4503 SDG#: DX145-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280002	10/12/2011 06:54	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280002	10/09/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162401B	10/05/2011 19:53	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-104-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-104-SA7-SB-9.0-10.0

LLI Sample # SW 6421349
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 12:45

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4504 SDG#: DX145-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-104-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-104-SA7-SB-9.0-10.0

LLI Sample # SW 6421349
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 12:45

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X4504 SDG#: DX145-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0317	U	0.0317	1.06	1
11031	12378-PeCDD	40321-76-4	0.0320	U	0.0320	5.30	1
11031	123478-HxCDD	39227-28-6	0.0283	U	0.0283	5.30	1
11031	123678-HxCDD	57653-85-7	0.159	JBQ	0.0273	5.30	1
11031	123789-HxCDD	19408-74-3	0.194	J	0.0281	5.30	1
11031	1234678-HpCDD	35822-46-9	3.12	JB	0.0401	5.30	1
11031	OCDD	3268-87-9	29.2	B	0.0378	10.6	1
11031	2378-TCDF	51207-31-9	0.0247	U	0.0247	1.06	1
11031	12378-PeCDF	57117-41-6	0.0323	JBQ	0.0152	5.30	1
11031	23478-PeCDF	57117-31-4	0.0421	JB	0.0149	5.30	1
11031	123478-HxCDF	70648-26-9	0.102	JBQ	0.0229	5.30	1
11031	123678-HxCDF	57117-44-9	0.0654	JB	0.0190	5.30	1
11031	123789-HxCDF	72918-21-9	0.148	JB	0.0258	5.30	1
11031	234678-HxCDF	60851-34-5	0.0743	JBQ	0.0211	5.30	1
11031	1234678-HpCDF	67562-39-4	0.373	JB	0.0157	5.30	1
11031	1234789-HpCDF	55673-89-7	0.0496	JBQ	0.0290	5.30	1
11031	OCDF	39001-02-0	0.741	JB	0.0439	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	62	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-104-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-104-SA7-SB-9.0-10.0

LLI Sample # SW 6421349
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 12:45

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
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Chantilly VA 20151

X4504 SDG#: DX145-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-104-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-104-SA7-SB-9.0-10.0

LLI Sample # SW 6421349
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 12:45

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X4504 SDG#: DX145-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280002	10/12/2011 07:51	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280002	10/09/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162401B	10/05/2011 19:53	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-105-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-105-SA7-SB-4.0-5.0

LLI Sample # SW 6421350
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 14:45

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

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X4505 SDG#: DX145-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-105-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-105-SA7-SB-4.0-5.0

LLI Sample # SW 6421350
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 14:45

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

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X4505 SDG#: DX145-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0406	JQ	0.0318	1.02	1
11031	12378-PeCDD	40321-76-4	0.178	J	0.0271	5.11	1
11031	123478-HxCDD	39227-28-6	0.262	JQ	0.0428	5.11	1
11031	123678-HxCDD	57653-85-7	0.905	JBQ	0.0433	5.11	1
11031	123789-HxCDD	19408-74-3	0.435	J	0.0419	5.11	1
11031	1234678-HpCDD	35822-46-9	37.0	B	0.0864	5.11	1
11031	OCDD	3268-87-9	445	B	0.0902	10.2	1
11031	2378-TCDF	51207-31-9	0.0394	JQ	0.0276	1.02	1
11031	12378-PeCDF	57117-41-6	0.242	JBQ	0.0174	5.11	1
11031	23478-PeCDF	57117-31-4	0.285	JB	0.0168	5.11	1
11031	123478-HxCDF	70648-26-9	0.491	JB	0.0400	5.11	1
11031	123678-HxCDF	57117-44-9	0.352	JB	0.0347	5.11	1
11031	123789-HxCDF	72918-21-9	0.243	JBQ	0.0364	5.11	1
11031	234678-HxCDF	60851-34-5	0.331	JBQ	0.0310	5.11	1
11031	1234678-HpCDF	67562-39-4	4.81	JB	0.0298	5.11	1
11031	1234789-HpCDF	55673-89-7	0.673	JB	0.0435	5.11	1
11031	OCDF	39001-02-0	9.97	JB	0.0373	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	95	32 - 141
13C12-123678-HxCDD	98	28 - 130
13C12-123789-HxCDD	92	28 - 130
13C12-1234678-HpCDD	98	23 - 140
13C12-OCDD	108	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	83	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-105-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-105-SA7-SB-4.0-5.0

LLI Sample # SW 6421350
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 14:45

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
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Chantilly VA 20151

X4505 SDG#: DX145-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-105-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-105-SA7-SB-4.0-5.0

LLI Sample # SW 6421350
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 14:45

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4505 SDG#: DX145-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280002	10/12/2011 08:48	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280002	10/09/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162401B	10/05/2011 19:53	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-172-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA7-SB-4.0-5.0

LLI Sample # SW 6421351
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 10:35

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X4506 SDG#: DX145-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-172-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-172-SA7-SB-4.0-5.0

LLI Sample # SW 6421351
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 10:35

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X4506 SDG#: DX145-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0715	JQ	0.0283	1.06	1
11031	12378-PeCDD	40321-76-4	0.255	JQ	0.0293	5.29	1
11031	123478-HxCDD	39227-28-6	0.169	JQ	0.0347	5.29	1
11031	123678-HxCDD	57653-85-7	0.349	JB	0.0350	5.29	1
11031	123789-HxCDD	19408-74-3	0.278	J	0.0351	5.29	1
11031	1234678-HpCDD	35822-46-9	8.84	B	0.0547	5.29	1
11031	OCDD	3268-87-9	81.5	B	0.0456	10.6	1
11031	2378-TCDF	51207-31-9	0.0934	JQ	0.0247	1.06	1
11031	12378-PeCDF	57117-41-6	0.281	JB	0.0154	5.29	1
11031	23478-PeCDF	57117-31-4	0.356	JB	0.0149	5.29	1
11031	123478-HxCDF	70648-26-9	0.238	JB	0.0310	5.29	1
11031	123678-HxCDF	57117-44-9	0.236	JB	0.0270	5.29	1
11031	123789-HxCDF	72918-21-9	0.181	JB	0.0312	5.29	1
11031	234678-HxCDF	60851-34-5	0.227	JBQ	0.0264	5.29	1
11031	1234678-HpCDF	67562-39-4	0.974	JB	0.0208	5.29	1
11031	1234789-HpCDF	55673-89-7	0.113	JBQ	0.0312	5.29	1
11031	OCDF	39001-02-0	1.42	JB	0.0310	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	91	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	94	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	75	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-172-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA7-SB-4.0-5.0

LLI Sample # SW 6421351
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 10:35

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4506 SDG#: DX145-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-172-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA7-SB-4.0-5.0

LLI Sample # SW 6421351
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 10:35

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4506 SDG#: DX145-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280002	10/12/2011 09:44	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280002	10/09/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162401B	10/05/2011 19:53	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-172-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA7-SB-9.0-10.0

LLI Sample # SW 6421352
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 10:45

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4507 SDG#: DX145-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-172-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA7-SB-9.0-10.0

LLI Sample # SW 6421352
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 10:45

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4507 SDG#: DX145-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0327	U	0.0327	1.07	1
11031	12378-PeCDD	40321-76-4	0.0246	U	0.0246	5.33	1
11031	123478-HxCDD	39227-28-6	0.0278	U	0.0278	5.33	1
11031	123678-HxCDD	57653-85-7	0.206	JB	0.0285	5.33	1
11031	123789-HxCDD	19408-74-3	0.174	J	0.0303	5.33	1
11031	1234678-HpCDD	35822-46-9	5.40	B	0.0414	5.33	1
11031	OCDD	3268-87-9	46.5	B	0.0376	10.7	1
11031	2378-TCDF	51207-31-9	0.0333	JQ	0.0225	1.07	1
11031	12378-PeCDF	57117-41-6	0.114	JBQ	0.0152	5.33	1
11031	23478-PeCDF	57117-31-4	0.145	JBQ	0.0159	5.33	1
11031	123478-HxCDF	70648-26-9	0.128	JBQ	0.0247	5.33	1
11031	123678-HxCDF	57117-44-9	0.0812	JBQ	0.0208	5.33	1
11031	123789-HxCDF	72918-21-9	0.156	JB	0.0286	5.33	1
11031	234678-HxCDF	60851-34-5	0.116	JBQ	0.0230	5.33	1
11031	1234678-HpCDF	67562-39-4	0.536	JB	0.0166	5.33	1
11031	1234789-HpCDF	55673-89-7	0.0525	JBQ	0.0309	5.33	1
11031	OCDF	39001-02-0	0.862	JB	0.0381	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	95	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	68	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-172-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA7-SB-9.0-10.0

LLI Sample # SW 6421352
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 10:45

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4507 SDG#: DX145-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-172-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-172-SA7-SB-9.0-10.0

LLI Sample # SW 6421352
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 10:45

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4507 SDG#: DX145-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280002	10/12/2011 10:41	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280002	10/09/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162401B	10/05/2011 19:53	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP-09-SA7-QC-092711 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-09-SA7-QC-092711

LLI Sample # SW 6421353
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:45

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4508 SDG#: DX145-08FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP-09-SA7-QC-092711 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-09-SA7-QC-092711

LLI Sample # SW 6421353
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:45

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4508 SDG#: DX145-08FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0238	J	0.0225	1.02	1
11031	12378-PeCDD	40321-76-4	0.0313	JQ	0.0265	5.08	1
11031	123478-HxCDD	39227-28-6	0.0890	JQ	0.0322	5.08	1
11031	123678-HxCDD	57653-85-7	0.399	JB	0.0318	5.08	1
11031	123789-HxCDD	19408-74-3	0.272	J	0.0319	5.08	1
11031	1234678-HpCDD	35822-46-9	15.1	B	0.0555	5.08	1
11031	OCDD	3268-87-9	150	B	0.0524	10.2	1
11031	2378-TCDF	51207-31-9	0.0211	U	0.0211	1.02	1
11031	12378-PeCDF	57117-41-6	0.0540	JBQ	0.0131	5.08	1
11031	23478-PeCDF	57117-31-4	0.0823	JB	0.0132	5.08	1
11031	123478-HxCDF	70648-26-9	0.0961	JB	0.0268	5.08	1
11031	123678-HxCDF	57117-44-9	0.0957	JBQ	0.0232	5.08	1
11031	123789-HxCDF	72918-21-9	0.0888	JB	0.0274	5.08	1
11031	234678-HxCDF	60851-34-5	0.115	JBQ	0.0224	5.08	1
11031	1234678-HpCDF	67562-39-4	1.41	JB	0.0204	5.08	1
11031	1234789-HpCDF	55673-89-7	0.174	JBQ	0.0335	5.08	1
11031	OCDF	39001-02-0	3.19	JB	0.0324	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	94	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	69	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP-09-SA7-QC-092711 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-09-SA7-QC-092711

LLI Sample # SW 6421353
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:45

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4508 SDG#: DX145-08FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP-09-SA7-QC-092711 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-09-SA7-QC-092711

LLI Sample # SW 6421353
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 08:45

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4508 SDG#: DX145-08FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280002	10/12/2011 11:37	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280002	10/09/2011 12:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162401B	10/05/2011 19:53	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA7-SB-092711 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-092711

LLI Sample # WW 6421354
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 13:00

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4509 SDG#: DX145-09EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.241	JBQ	0.162	2.06	1
10915	12378-PeCDD	40321-76-4	0.557	JBQ	0.183	10.3	1
10915	123478-HxCDD	39227-28-6	0.393	JBQ	0.149	10.3	1
10915	123678-HxCDD	57653-85-7	0.384	JBQ	0.157	10.3	1
10915	123789-HxCDD	19408-74-3	0.371	JBQ	0.152	10.3	1
10915	1234678-HpCDD	35822-46-9	2.71	JB	0.197	10.3	1
10915	OCDD	3268-87-9	4.38	JBQ	0.251	20.6	1
10915	2378-TCDF	51207-31-9	0.148	JBQ	0.127	2.06	1
10915	12378-PeCDF	57117-41-6	0.704	JB	0.113	10.3	1
10915	23478-PeCDF	57117-31-4	0.730	JBQ	0.101	10.3	1
10915	123478-HxCDF	70648-26-9	0.571	JBQ	0.116	10.3	1
10915	123678-HxCDF	57117-44-9	0.492	JB	0.115	10.3	1
10915	123789-HxCDF	72918-21-9	0.508	JBQ	0.112	10.3	1
10915	234678-HxCDF	60851-34-5	0.456	JBQ	0.103	10.3	1
10915	1234678-HpCDF	67562-39-4	1.41	JB	0.105	10.3	1
10915	1234789-HpCDF	55673-89-7	0.522	JB	0.118	10.3	1
10915	OCDF	39001-02-0	1.14	JBQ	0.199	20.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	68	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA7-SB-092711 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-092711

LLI Sample # WW 6421354
LLI Group # 1268681
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/27/2011 13:00

Submitted: 09/28/2011 09:00
Reported: 10/18/2011 23:17

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4509 SDG#: DX145-09EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11276001	10/05/2011 08:48	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11276001	10/03/2011 08:30	Ginelle L Haines	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268681
Reported: 10/18/11 at 11:17 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11278162401A	Sample number(s): 6421344-6421346								
Moisture Content by 160.3					100		80-120		
Batch number: 11278162401B	Sample number(s): 6421347-6421353								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11276001	Sample number(s): 6421354								
2378-TCDD	0.373 J	0.201	2.00	pg/l	98		67-158		
12378-PeCDD	0.712 J	0.210	10.0	pg/l	103		70-142		
123478-HxCDD	0.388 J	0.188	10.0	pg/l	108		70-164		
123678-HxCDD	0.421 J	0.188	10.0	pg/l	102		76-134		
123789-HxCDD	0.543 J	0.197	10.0	pg/l	106		64-162		
1234678-HpCDD	2.57 J	0.190	10.0	pg/l	108		70-140		
OCDD	3.69 J	0.255	20.0	pg/l	114		78-144		
2378-TCDF	0.261 J	0.181	2.00	pg/l	101		75-158		
12378-PeCDF	0.901 J	0.140	10.0	pg/l	104		80-134		
23478-PeCDF	0.929 J	0.125	10.0	pg/l	104		68-160		
123478-HxCDF	0.622 J	0.127	10.0	pg/l	108		72-134		
123678-HxCDF	0.553 J	0.120	10.0	pg/l	107		84-130		
123789-HxCDF	0.770 J	0.119	10.0	pg/l	105		78-130		
234678-HxCDF	0.643 J	0.118	10.0	pg/l	105		70-156		
1234678-HpCDF	1.42 J	0.109	10.0	pg/l	109		82-122		
1234789-HpCDF	0.763 J	0.124	10.0	pg/l	109		78-138		
OCDF	1.50 J	0.190	20.0	pg/l	112		63-170		
Batch number: 11280002	Sample number(s): 6421344-6421353								
2378-TCDD	0.0413 U	0.0413	1.00	ng/kg	102		67-158		
12378-PeCDD	0.0372 U	0.0372	5.00	ng/kg	102		70-142		
123478-HxCDD	0.0238 U	0.0238	5.00	ng/kg	104		70-164		
123678-HxCDD	0.0498 J	0.0235	5.00	ng/kg	101		76-134		
123789-HxCDD	0.0242 U	0.0242	5.00	ng/kg	99		64-162		
1234678-HpCDD	0.308 J	0.0298	5.00	ng/kg	98		70-140		
OCDD	0.625 J	0.0211	10.0	ng/kg	98		78-144		
2378-TCDF	0.0379 U	0.0379	1.00	ng/kg	104		75-158		
12378-PeCDF	0.0197 J	0.0189	5.00	ng/kg	100		80-134		
23478-PeCDF	0.0656 J	0.0189	5.00	ng/kg	99		68-160		
123478-HxCDF	0.0739 J	0.0214	5.00	ng/kg	99		72-134		
123678-HxCDF	0.0577 J	0.0185	5.00	ng/kg	95		84-130		
123789-HxCDF	0.0378 J	0.0238	5.00	ng/kg	97		78-130		
234678-HxCDF	0.0899 J	0.0202	5.00	ng/kg	99		70-156		
1234678-HpCDF	0.210 J	0.0107	5.00	ng/kg	96		82-122		
1234789-HpCDF	0.0464 J	0.0203	5.00	ng/kg	99		78-138		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268681
Reported: 10/18/11 at 11:17 PM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
OCDF	0.226	J	0.0378	10.0	ng/kg	98		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11278162401A	Sample number(s): 6421344-6421346					BKG: P421299			
Moisture Content by 160.3						4.6	4.8	3	20
Batch number: 11278162401B	Sample number(s): 6421347-6421353					BKG: P421310			
Moisture Content by 160.3						9.2	8.3	11	20
Batch number: 11280002	Sample number(s): 6421344-6421353					UNSPK: 6421344			
2378-TCDD	99	102	67-158	3	25				
12378-PeCDD	101	101	70-142	0	25				
123478-HxCDD	101	100	70-164	1	25				
123678-HxCDD	96	96	76-134	0	25				
123789-HxCDD	98	99	64-162	1	25				
1234678-HpCDD	119	106	70-140	11	25				
OCDD	225*	142	78-144	35*	25				
2378-TCDF	96	95	75-158	0	25				
12378-PeCDF	99	98	80-134	0	25				
23478-PeCDF	96	97	68-160	1	25				
123478-HxCDF	98	97	72-134	0	25				
123678-HxCDF	98	96	84-130	2	25				
123789-HxCDF	98	94	78-130	4	25				
234678-HxCDF	98	98	70-156	0	25				
1234678-HpCDF	98	96	82-122	2	25				
1234789-HpCDF	98	98	78-138	0	25				
OCDF	101	97	63-170	4	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11276001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6421354	78	77	72	72	76	78
Blank	92	94	87	90	94	99
OPR	79	75	76	77	79	87
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6421354	70	70	68	75	73	76

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268681
Reported: 10/18/11 at 11:17 PM

Surrogate Quality Control

Blank	90	90	92	92	91	92
OPR	75	74	73	75	76	78
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6421354	75	74	70	81	74	
Blank	93	94	92	91	91	
OPR	78	74	72	77	77	
Limits:	28-130	23-140	17-157	24-169	24-185	

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11280002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6421344	70	62	62	69	62	62
6421345	74	65	64	72	67	64
6421346	75	68	69	78	71	69
6421347	75	64	53	63	63	60
6421348	74	67	63	75	68	66
6421349	71	65	61	72	65	62
6421350	82	75	64	73	78	79
6421351	81	72	67	73	73	74
6421352	74	67	63	73	68	64
6421353	74	66	60	70	68	69
Blank	77	71	67	78	73	75
MS	74	65	64	72	67	64
MSD	75	68	69	78	71	69
OPR	67	62	58	71	64	61
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6421344	86	58	56	67	74	74
6421345	91	64	69	71	83	88
6421346	97	72	76	74	80	86
6421347	83	58	58	73	82	85
6421348	94	64	67	74	87	86
6421349	94	60	62	72	82	87
6421350	95	78	83	82	95	98
6421351	87	73	75	76	90	91
6421352	95	64	68	75	87	88
6421353	91	66	69	72	86	89
Blank	113	76	77	81	86	91
MS	91	64	69	71	83	88
MSD	97	72	76	74	80	86
OPR	103	63	66	72	84	88
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6421344	70	83	80	66	70	
6421345	82	85	93	70	73	

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268681
Reported: 10/18/11 at 11:17 PM

Surrogate Quality Control

6421346	82	91	101	73	76
6421347	83	82	87	67	74
6421348	82	87	95	70	75
6421349	81	85	91	67	73
6421350	92	98	108	78	82
6421351	88	89	94	78	77
6421352	84	89	95	70	75
6421353	85	89	94	71	73
Blank	89	104	115	70	79
MS	82	85	93	70	73
MSD	82	91	101	73	76
OPR	88	94	106	60	70
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cp# 12656681 sample# 6421344-54

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS								SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	
SL-103-SA7-SB-4.5MS	9/27/11	0835	SOIL	NONE	6-Encores										X										
SL-103-SA7-SB-4.0-5.0MS	9/27/11	0840	SOIL	NONE	9-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X			X	X	X	X	MS/MSD sample
SL-103-SA7-SB-9.5	9/27/11	0850	SOIL	NONE	2-Encores										X											MS/MSD sample
SL-103-SA7-SB-9.0-10.0	9/27/11	0855	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X			X	X	X	X	
SL-104-SA7-SB-4.5	9/27/11	1230	SOIL	NONE	2-Encores										X											
SL-104-SA7-SB-4.0-5.0	9/27/11	1235	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X			X	X	X	X	
SL-104-SA7-SB-9.5	9/27/11	1240	SOIL	NONE	2-Encores										X											
SL-104-SA7-SB-9.0-10.0	9/27/11	1245	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X			X	X	X	X	
SL-105-SA7-SB-4.5	9/27/11	1440	SOIL	NONE	2-Encores										X											
SL-105-SA7-SB-4.0-5.0	9/27/11	1445	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X			X	X	X	X	
SL-172-SA7-SB-4.5	9/27/11	1030	SOIL	NONE	2-Encores										X											
SL-172-SA7-SB-4.0-5.0	9/27/11	1035	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X			X	X	X	X	
SL-172-SA7-SB-9.5	9/27/11	1040	SOIL	NONE	2-Encores										X											
SL-172-SA7-SB-9.0-10.0	9/27/11	1045	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X			X	X	X	X	
DUP-08-SA7-QC-092711	9/27/11	0845	SOIL	NONE	2-Encores										X											
DUP-08-SA7-QC-092711	9/27/11	0845	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X			X	X	X	X	
TB-092711	9/27/11	1430	WATER	NONE	2-40mL vials										X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	
	09/27/2011 / 1630		Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
	9-28-11 900	8767 9858 3450; 8767 9858 3461 8767 9858 3472; 8767 9858 3483	

acct# 13013 Gp# 1263681 sample# 643134-54

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 8 (SA8) and Subarea 8 (SA7), report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS								VOCs			SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terpenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dioxin/ EPA 8270	
EB-SA7-SB-092711	09.27.11	1300	WATER	NONE	10-1 liter ambers			X	X	X							X			X	X		X			X	
EB-SA7-SB-092711	09.27.11	1300	WATER	NONE	1-500 mL poly		X				X	X	X														
EB-SA7-SB-092711	09.27.11	1300	WATER	HNO3	1-500 mL poly	X																					
EB-SA7-SB-092711	09.27.11	1300	WATER	NaOH	1-500 mL poly																	X					
EB-SA7-SB-092711	09.27.11	1300	WATER	NONE	2-125 mL ambers														X								
EB-SA7-SB-092711	09.27.11	1300	WATER	HCL	11-40 mL vials									X	X	X									X		
EB-SA7-SB-092711	09.27.11	1300	WATER	NONE	4-40 mL vials													X						X			

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	09/27/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**	
	9-28-11 900	8767 9858 3450; 8767 9858 3461 8767 9858 3472; 8767 9858 3483	

Nicole Maljovec

From: Bloisa, Peggy [BloisaMJ@cdm.com]
Sent: Friday, September 30, 2011 2:22 PM
To: Nicole Maljovec
Cc: Hartman, Pamela
Subject: Error on SSFL COC dated 9/27/11
Attachments: COC_09_27_11 revised.xlsx

Found an error on my COC dated 9.27.11. Please change sample number DUP-08-SA7-QC-092711 to read as DUP-09-SA7-QC-092711. See attached revised COC.

Thanks! Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|


Please consider the environment before printing this email.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 03, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/29/2011
Group Number: 1268901
SDG: DE257
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-103-SA7-SB-18.0-19.0 Soil	6422522
SL-106-SA7-SB-4.0-5.0 Soil	6422523
SL-106-SA7-SB-9.0-10.0 Soil	6422524
SL-106-SA7-SB-15.5 Soil	6422525
SL-106-SA7-SB-16.5-17.5 Soil	6422526
SL-106-SA7-SB-19.0-20.0 Soil	6422527
TB-092711 Water	6422528
SL-007-SA5DS-SS-0.0-0.5 Soil	6422529
SL-008-SA5DS-SS-0.0-0.5 Soil	6422530
SL-009-SA5DS-SS-0.0-0.5 Soil	6422531
SL-010-SA5DS-SS-0.0-0.5 Soil	6422532
SL-013-SA5DS-SS-0.0-0.5 Soil	6422533
SL-014-SA5DS-SS-0.0-0.5 Soil	6422534
SL-015-SA5DS-SS-0.0-0.5 Soil	6422535
SL-016-SA5DS-SS-0.0-0.5 Soil	6422536
SL-017-SA5DS-SS-0.0-0.5 Soil	6422537
SL-033-SA5DS-SS-0.0-0.5 Soil	6422538
SL-034-SA5DS-SS-0.0-0.5 Soil	6422539
SL-034-SA5DS-SS-0.0-0.5MS Soil	6422540
SL-034-SA5DS-SS-0.0-0.5MSD Soil	6422541
SL-034-SA5DS-SS-0.0-0.5DUP Soil	6422542
SL-034-SA5DS-SS-0.0-0.5RL MS Soil	6422543
SL-034-SA5DS-SS-0.0-0.5RL LCS Soil	6422544
SL-040-SA5DS-SS-0.0-0.5 Soil	6422545
DUP-02-SA5DS-QC-092811 Soil	6422546
EB-SA5DS-SS-092811 Water	6422547

Lancaster Laboratories

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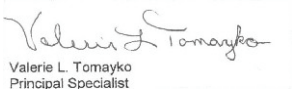
Analysis Report

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Valerie L. Tomayko
Principal Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-103-SA7-SB-18.0-19.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-18.0-19.0

LLI Sample # SW 6422522
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 14:30

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5701 SDG#: DE257-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	183	U	183	366	10
	Reporting limits were raised due to interference from the sample matrix.						
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	2-butoxy-Ethanol	111-76-2	1,800	U	1,800	1,800	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-103-SA7-SB-18.0-19.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-18.0-19.0

LLI Sample # SW 6422522
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 14:30

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5701 SDG#: DE257-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	2-phenoxy-Ethanol	122-99-6	1,800	U	1,800	1,800	1
04688	Tetralin	119-64-2	180	U	180	180	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	1.1	J	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19	1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19	1
10138	Chrysene	218-01-9	0.69	J	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	19	1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1	25.99
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	660	U	660	1,600	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-103-SA7-SB-18.0-19.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-18.0-19.0

LLI Sample # SW 6422522
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 14:30

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5701 SDG#: DE257-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Perchlorate	**SW-846 6850 1/2007**		ug/kg		ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5	1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.49	J	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	550	1
10501	Isopropanol	67-63-0	110	U	110	550	1
10501	Methanol	67-56-1	110	U	110	550	1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11	1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11	1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3	1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3	1
10199	EFH (C21-C30)	n.a.	5.2		0.44	1.3	1
10199	EFH (C30 - C40)	n.a.	19		0.44	1.3	1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3	1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	
01643	Aluminum	7429-90-5	14,400		6.39	21.1	1
07914	Boron	7440-42-8	6.75		0.380	5.28	1
01650	Calcium	7440-70-2	4,690		2.64	21.1	1
01654	Iron	7439-89-6	19,700		2.76	21.1	1
01656	Lithium	7439-93-2	24.5		0.66	2.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-103-SA7-SB-18.0-19.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-18.0-19.0

LLI Sample # SW 6422522
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 14:30

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5701 SDG#: DE257-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	4,740		0.465	10.6	1
06958	Manganese	7439-96-5	254		0.0380	0.528	1
10145	Phosphorus	7723-14-0	430		0.370	10.6	1
01662	Potassium	7440-09-7	2,840		11.9	52.8	1
01667	Sodium	7440-23-5	166		6.29	106	1
07968	Strontium	7440-24-6	21.6		0.0264	0.528	1
06969	Tin	7440-31-5	2.67	J	0.338	10.6	1
06970	Titanium	7440-32-6	1,160		0.0750	1.06	1
10146	Zirconium	7440-67-7	1.67	J	0.486	5.28	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.133	J	0.0790	0.213	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.12		0.0854	0.427	2
06126	Barium	7440-39-3	96.1		0.113	0.427	2
06127	Beryllium	7440-41-7	0.581		0.0171	0.107	2
06128	Cadmium	7440-43-9	0.118		0.0469	0.107	2
06131	Chromium	7440-47-3	17.2		0.128	0.427	2
06132	Cobalt	7440-48-4	5.93		0.0213	0.107	2
06133	Copper	7440-50-8	8.28		0.0854	0.427	2
06135	Lead	7439-92-1	5.34		0.0109	0.213	2
06138	Molybdenum	7439-98-7	0.483		0.0533	0.107	2
06139	Nickel	7440-02-0	11.5		0.107	0.427	2
06141	Selenium	7782-49-2	0.204	J	0.0619	0.427	2
06142	Silver	7440-22-4	0.0267	J	0.0151	0.107	2
06145	Thallium	7440-28-0	0.254		0.0320	0.107	2
06148	Vanadium	7440-62-2	35.9		0.0235	0.107	2
06149	Zinc	7440-66-6	77.2		0.597	3.20	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0074	U	0.0074	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8		0.87	1.1	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.0		0.87	1.6	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	J	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.05		0.0100	0.0100	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-103-SA7-SB-18.0-19.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-18.0-19.0

LLI Sample # SW 6422522
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 14:30

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5701 SDG#: DE257-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	9.0	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-103-SA7-SB-18.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11280SLB026	10/11/2011 12:31	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11283SLA026	10/13/2011 19:48	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11281SLA026	10/12/2011 17:22	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11280SLB026	10/07/2011 17:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11281SLA026	10/10/2011 10:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11283SLA026	10/11/2011 10:15	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11274A34A	10/01/2011 16:21	Laura M Krieger	25.99
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201127225692	09/29/2011 14:07	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201127225692	09/29/2011 14:08	Christopher D Meeks	n.a.
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112740006A	10/05/2011 21:53	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112770016A	10/05/2011 19:28	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112800018A	10/20/2011 17:59	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112800018A	10/08/2011 08:00	Katheryne V Sponheimer	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112770016A	10/05/2011 09:00	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112740006A	10/03/2011 19:00	Wanda F Oswald	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112730032A	10/03/2011 21:56	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112790048A	10/06/2011 20:52	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112790037A	10/11/2011 07:25	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112790036A	10/09/2011 03:39	Heather E Williams	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-103-SA7-SB-18.0-19.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-18.0-19.0

LLI Sample # SW 6422522
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 14:30

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E5701 SDG#: DE257-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11238	EFH Extraction - Soils	SW-846 3550B	1	112790036A	10/07/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112790037A	10/07/2011 07:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112730032A	10/03/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112790048A	10/06/2011 17:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112725708002	10/11/2011 14:43	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112725708002	10/11/2011 14:43	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112725708002	10/11/2011 14:43	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112725708002	10/11/2011 14:43	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112725708002	10/11/2011 14:43	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112725708002	10/11/2011 14:43	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112725708002	10/11/2011 14:43	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112725708002	10/11/2011 14:43	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112725708002	10/11/2011 14:43	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112725708002	10/11/2011 14:43	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112725708002	10/11/2011 14:43	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112725708002	10/11/2011 14:43	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112725708002	10/11/2011 14:43	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112725708002	10/11/2011 14:43	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112721026002A	09/30/2011 11:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112721026002A	09/30/2011 11:41	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112721026002D	09/30/2011 11:41	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112721026002A	09/30/2011 11:41	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112721026002A	09/30/2011 11:41	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112721026002A	09/30/2011 11:41	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112721026002A	09/30/2011 11:41	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112721026002A	09/30/2011 11:41	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112721026002A	09/30/2011 11:41	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112721026002C	09/30/2011 11:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112721026002A	09/30/2011 11:41	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112721026002B	09/30/2011 11:41	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112721026002A	09/30/2011 11:41	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112721026002A	09/30/2011 11:41	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112721026002A	09/30/2011 11:41	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112721026002A	09/30/2011 11:41	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112725711003	09/30/2011 07:44	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708002	09/29/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026002	09/29/2011 22:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711003	09/30/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285285201A	10/14/2011 00:20	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11285285201A	10/14/2011 00:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11278621201A	10/06/2011 19:59	Elyse P Brunstetter	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-103-SA7-SB-18.0-19.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-18.0-19.0

LLI Sample # SW 6422522
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 14:30

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5701 SDG#: DE257-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243202A	10/12/2011 14:33	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285285201A	10/12/2011 07:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11278621201A	10/05/2011 07:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039401A	10/12/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 11:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162402A	10/05/2011 21:20	Scott W Freisher	1

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Analysis Report

Sample Description: SL-106-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-4.0-5.0

LLI Sample # SW 6422523
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 12:15

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5702 SDG#: DE257-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.3	U	17.3	34.6	1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	2-butoxy-Ethanol	111-76-2	1,700	U	1,700	1,700	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-106-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-4.0-5.0

LLI Sample # SW 6422523
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 12:15

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5702 SDG#: DE257-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	2-phenoxy-Ethanol	122-99-6	1,700	U	1,700	1,700	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.68	U	0.68	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.68	U	0.68	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	2.5		0.68	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	J	0.68	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.68	U	0.68	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18	1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18	1
10138	Chrysene	218-01-9	1.1	J	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7	1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18	1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.1	U	6.1	18	1
10138	Fluoranthene	206-44-0	0.68	U	0.68	1.7	1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7	1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18	1
10138	Phenanthrene	85-01-8	0.68	U	0.68	1.7	1
10138	Pyrene	129-00-0	0.72	J	0.68	1.7	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1	27.17
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	620	U	620	1,600	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-106-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-4.0-5.0

LLI Sample # SW 6422523
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 12:15

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5702 SDG#: DE257-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	1.5	J	0.34	1.8	1
10225	PCB-1254	11097-69-1	1.1	J	0.34	1.8	1
10225	PCB-1260	11096-82-5	1.1	J	0.40	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside of the method required holding time, and surrogate recoveries are within the QC acceptance limits. Since the hold time had expired prior to the second extraction all results are reported from the original extract. Similar results were obtained in both extracts.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520	1
10501	Isopropanol	67-63-0	100	U	100	520	1
10501	Methanol	67-56-1	100	U	100	520	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10	1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10	1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6	1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6	1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	8.3	U	8.3	25	20
10199	EFH (C15-C20)	n.a.	8.3	U	8.3	25	20
10199	EFH (C21-C30)	n.a.	49		8.3	25	20
10199	EFH (C30 - C40)	n.a.	230		8.3	25	20
10199	EFH (C8-C11)	n.a.	8.3	U	8.3	25	20
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-106-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-4.0-5.0

LLI Sample # SW 6422523
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 12:15

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5702 SDG#: DE257-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,100		6.09	20.1	1
07914	Boron	7440-42-8	5.10		0.363	5.04	1
01650	Calcium	7440-70-2	3,490		2.52	20.1	1
01654	Iron	7439-89-6	18,900		2.63	20.1	1
01656	Lithium	7439-93-2	24.8		0.62	2.0	1
01657	Magnesium	7439-95-4	4,480		0.443	10.1	1
06958	Manganese	7439-96-5	267		0.0363	0.504	1
10145	Phosphorus	7723-14-0	350		0.352	10.1	1
01662	Potassium	7440-09-7	2,800		11.4	50.4	1
01667	Sodium	7440-23-5	126		5.99	101	1
07968	Strontium	7440-24-6	15.7		0.0252	0.504	1
06969	Tin	7440-31-5	2.55	J	0.322	10.1	1
06970	Titanium	7440-32-6	1,110		0.0715	1.01	1
10146	Zirconium	7440-67-7	0.809	J	0.463	5.04	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0932	J	0.0738	0.199	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.57		0.0798	0.399	2
06126	Barium	7440-39-3	92.8		0.106	0.399	2
06127	Beryllium	7440-41-7	0.529		0.0160	0.0997	2
06128	Cadmium	7440-43-9	0.109		0.0439	0.0997	2
06131	Chromium	7440-47-3	16.3		0.120	0.399	2
06132	Cobalt	7440-48-4	5.67		0.0199	0.0997	2
06133	Copper	7440-50-8	7.35		0.0798	0.399	2
06135	Lead	7439-92-1	5.54		0.0102	0.199	2
06138	Molybdenum	7439-98-7	0.511		0.0499	0.0997	2
06139	Nickel	7440-02-0	11.0		0.0997	0.399	2
06141	Selenium	7782-49-2	0.131	J	0.0579	0.399	2
06142	Silver	7440-22-4	0.0241	J	0.0142	0.0997	2
06145	Thallium	7440-28-0	0.270		0.0299	0.0997	2
06148	Vanadium	7440-62-2	33.2		0.0219	0.0997	2
06149	Zinc	7440-66-6	67.4		0.559	2.99	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	U	0.0071	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.83	1.0	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.1	J	0.83	1.6	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.0	U	1.0	5.1	5

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-106-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-4.0-5.0

LLI Sample # SW 6422523
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 12:15

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5702 SDG#: DE257-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.26	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	3.6	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-106-SA7-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11280SLB026	10/10/2011 19:20	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11283SLA026	10/15/2011 18:47	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11281SLA026	10/12/2011 17:55	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11280SLB026	10/07/2011 17:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11281SLA026	10/10/2011 10:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11283SLA026	10/11/2011 10:15	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11274A34A	10/01/2011 16:57	Laura M Krieger	27.17
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201127225692	09/29/2011 14:08	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201127225692	09/29/2011 14:09	Christopher D Meeks	n.a.
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112740006A	10/05/2011 22:02	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112800018A	10/20/2011 18:18	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112800018A	10/08/2011 08:00	Katheryne V Sponheimer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112740006A	10/03/2011 19:00	Wanda F Oswald	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112730032A	10/03/2011 22:12	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112790048A	10/06/2011 21:05	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112790037A	10/08/2011 16:35	Heather E Williams	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-106-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-4.0-5.0

LLI Sample # SW 6422523
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 12:15

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5702 SDG#: DE257-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112790036A	10/09/2011 06:02	Heather E Williams	20
11238	EFH Extraction - Soils	SW-846 3550B	1	112790036A	10/07/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112790037A	10/07/2011 07:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112730032A	10/03/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112790048A	10/06/2011 17:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112725708002	10/11/2011 14:55	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112725708002	10/11/2011 14:55	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112725708002	10/11/2011 14:55	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112725708002	10/11/2011 14:55	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112725708002	10/11/2011 14:55	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112725708002	10/11/2011 14:55	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112725708002	10/11/2011 14:55	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112725708002	10/11/2011 14:55	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112725708002	10/11/2011 14:55	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112725708002	10/11/2011 14:55	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112725708002	10/11/2011 14:55	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112725708002	10/11/2011 14:55	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112725708002	10/11/2011 14:55	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112725708002	10/11/2011 14:55	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112721026002A	09/30/2011 11:44	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112721026002A	09/30/2011 11:44	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112721026002D	09/30/2011 11:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112721026002A	09/30/2011 11:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112721026002A	09/30/2011 11:44	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112721026002A	09/30/2011 11:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112721026002A	09/30/2011 11:44	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112721026002A	09/30/2011 11:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112721026002A	09/30/2011 11:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112721026002C	09/30/2011 11:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112721026002A	09/30/2011 11:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112721026002B	09/30/2011 11:44	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112721026002A	09/30/2011 11:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112721026002A	09/30/2011 11:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112721026002A	09/30/2011 11:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112721026002A	09/30/2011 11:44	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112725711003	09/30/2011 07:45	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708002	09/29/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026002	09/29/2011 22:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711003	09/30/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285285201A	10/14/2011 00:57	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11285285201A	10/14/2011 00:57	Ashley M Adams	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-106-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-4.0-5.0

LLI Sample # SW 6422523
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 12:15

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5702 SDG#: DE257-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11278621201A	10/06/2011 21:09	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243202A	10/12/2011 14:46	Elyse P Brunstetter	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285285201A	10/12/2011 07:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11278621201A	10/05/2011 07:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039401A	10/12/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 11:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162402A	10/05/2011 21:20	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-106-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-9.0-10.0

LLI Sample # SW 6422524
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 12:30

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5703 SDG#: DE257-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	180	U	180	361	10
	Reporting limits were raised due to interference from the sample matrix.						
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	2-butoxy-Ethanol	111-76-2	1,800	U	1,800	1,800	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-106-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-9.0-10.0

LLI Sample # SW 6422524
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 12:30

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5703 SDG#: DE257-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	2-phenoxy-Ethanol	122-99-6	1,800	U	1,800	1,800	1
04688	Tetralin	119-64-2	180	U	180	180	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.82	J	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19	1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2	27.96
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	650	U	650	1,600	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-106-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-9.0-10.0

LLI Sample # SW 6422524
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 12:30

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5703 SDG#: DE257-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	0.45	J	0.36	1.8	1
10225	PCB-1260	11096-82-5	0.71	J	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside of the method required holding time, and surrogate recoveries are within the QC acceptance limits. Since the hold time had expired prior to the second extraction all results are reported from the original extract. Similar results were obtained in both extracts.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540	1
10501	Isopropanol	67-63-0	110	U	110	540	1
10501	Methanol	67-56-1	110	U	110	540	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11	1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11	1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3	1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3	1
10199	EFH (C21-C30)	n.a.	4.5		0.43	1.3	1
10199	EFH (C30 - C40)	n.a.	16		0.43	1.3	1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-106-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-9.0-10.0

LLI Sample # SW 6422524
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 12:30

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5703 SDG#: DE257-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,300		6.36	21.0	1
07914	Boron	7440-42-8	4.42	J	0.378	5.25	1
01650	Calcium	7440-70-2	3,680		2.63	21.0	1
01654	Iron	7439-89-6	18,200		2.74	21.0	1
01656	Lithium	7439-93-2	24.6		0.65	2.1	1
01657	Magnesium	7439-95-4	4,440		0.462	10.5	1
06958	Manganese	7439-96-5	258		0.0378	0.525	1
10145	Phosphorus	7723-14-0	341		0.368	10.5	1
01662	Potassium	7440-09-7	2,760		11.9	52.5	1
01667	Sodium	7440-23-5	133		6.25	105	1
07968	Strontium	7440-24-6	15.1		0.0263	0.525	1
06969	Tin	7440-31-5	2.78	J	0.336	10.5	1
06970	Titanium	7440-32-6	1,090		0.0746	1.05	1
10146	Zirconium	7440-67-7	1.01	J	0.483	5.25	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.127	J	0.0785	0.212	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.88		0.0849	0.424	2
06126	Barium	7440-39-3	97.4		0.112	0.424	2
06127	Beryllium	7440-41-7	0.592		0.0170	0.106	2
06128	Cadmium	7440-43-9	0.160		0.0467	0.106	2
06131	Chromium	7440-47-3	16.5		0.127	0.424	2
06132	Cobalt	7440-48-4	6.43		0.0212	0.106	2
06133	Copper	7440-50-8	7.93		0.0849	0.424	2
06135	Lead	7439-92-1	5.51		0.0108	0.212	2
06138	Molybdenum	7439-98-7	0.529		0.0531	0.106	2
06139	Nickel	7440-02-0	12.7		0.106	0.424	2
06141	Selenium	7782-49-2	0.160	J	0.0615	0.424	2
06142	Silver	7440-22-4	0.0151	U	0.0151	0.106	2
06145	Thallium	7440-28-0	0.277		0.0318	0.106	2
06148	Vanadium	7440-62-2	33.6		0.0233	0.106	2
06149	Zinc	7440-66-6	97.4		0.594	3.18	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	J	0.0072	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.87	1.1	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.8		0.87	1.6	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	22.1	U	22.1	110	100

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-106-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-9.0-10.0

LLI Sample # SW 6422524
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 12:30

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5703 SDG#: DE257-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.36	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.6	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-106-SA7-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11280SLB026	10/11/2011 12:50	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11283SLA026	10/14/2011 18:38	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11281SLA026	10/12/2011 18:27	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11280SLB026	10/07/2011 17:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11281SLA026	10/10/2011 10:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11283SLA026	10/11/2011 10:15	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11274A34A	10/01/2011 17:33	Laura M Krieger	27.96
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201127225692	09/29/2011 14:10	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201127225692	09/29/2011 14:10	Christopher D Meeks	n.a.
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112740006A	10/05/2011 22:12	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112800018A	10/20/2011 18:37	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112800018A	10/08/2011 08:00	Katheryne V Sponheimer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112740006A	10/03/2011 19:00	Wanda F Oswald	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112730032A	10/03/2011 22:29	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112790048A	10/06/2011 21:18	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112790037A	10/11/2011 07:53	Heather E Williams	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-106-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-9.0-10.0

LLI Sample # SW 6422524
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 12:30

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5703 SDG#: DE257-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112790036A	10/09/2011 00:04	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112790036A	10/07/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112790037A	10/07/2011 07:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112730032A	10/03/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112790048A	10/06/2011 17:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112725708002	10/11/2011 14:59	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112725708002	10/11/2011 14:59	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112725708002	10/11/2011 14:59	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112725708002	10/11/2011 14:59	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112725708002	10/11/2011 14:59	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112725708002	10/11/2011 14:59	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112725708002	10/11/2011 14:59	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112725708002	10/11/2011 14:59	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112725708002	10/11/2011 14:59	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112725708002	10/11/2011 14:59	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112725708002	10/11/2011 14:59	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112725708002	10/11/2011 14:59	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112725708002	10/11/2011 14:59	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112725708002	10/11/2011 14:59	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112721026002A	09/30/2011 11:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112721026002A	09/30/2011 11:53	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112721026002D	09/30/2011 11:53	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112721026002A	09/30/2011 11:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112721026002A	09/30/2011 11:53	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112721026002A	09/30/2011 11:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112721026002A	09/30/2011 11:53	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112721026002A	09/30/2011 11:53	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112721026002A	09/30/2011 11:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112721026002C	09/30/2011 11:53	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112721026002A	09/30/2011 11:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112721026002B	09/30/2011 11:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112721026002A	09/30/2011 11:53	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112721026002A	09/30/2011 11:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112721026002A	09/30/2011 11:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112721026002A	09/30/2011 11:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112725711003	09/30/2011 07:46	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708002	09/29/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026002	09/29/2011 22:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711003	09/30/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285285201A	10/14/2011 01:09	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11285285201A	10/14/2011 01:09	Ashley M Adams	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-106-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-9.0-10.0

LLI Sample # SW 6422524
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 12:30

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5703 SDG#: DE257-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11278621201A	10/06/2011 21:55	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243202A	10/12/2011 15:00	Elyse P Brunstetter	100
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285285201A	10/12/2011 07:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11278621201A	10/05/2011 07:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039401A	10/12/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 11:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162402A	10/05/2011 21:20	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-106-SA7-SB-15.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-15.5

LLI Sample # SW 6422525
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 09:33

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5704 SDG#: DE257-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Acetone	67-64-1	11		7.0	8.3	0.96
06192	Benzene	71-43-2	0.10	U	0.10	4.2	0.96
06192	Bromobenzene	108-86-1	0.14	U	0.14	4.2	0.96
06192	Bromochloromethane	74-97-5	0.34	U	0.34	4.2	0.96
06192	Bromodichloromethane	75-27-4	0.08	U	0.08	4.2	0.96
06192	Bromoform	75-25-2	0.42	U	0.42	4.2	0.96
06192	Bromomethane	74-83-9	0.26	U	0.26	4.2	0.96
06192	2-Butanone	78-93-3	2.9	J	1.3	8.3	0.96
06192	n-Butylbenzene	104-51-8	0.13	U	0.13	4.2	0.96
06192	sec-Butylbenzene	135-98-8	0.06	U	0.06	4.2	0.96
06192	tert-Butylbenzene	98-06-6	0.17	U	0.17	4.2	0.96
06192	Carbon Tetrachloride	56-23-5	0.15	U	0.15	4.2	0.96
06192	Chlorobenzene	108-90-7	0.11	U	0.11	4.2	0.96
06192	Chloroethane	75-00-3	0.14	U	0.14	4.2	0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31	U	0.31	4.2	0.96
06192	Chloroform	67-66-3	0.13	U	0.13	4.2	0.96
06192	Chloromethane	74-87-3	0.34	U	0.34	4.2	0.96
06192	2-Chlorotoluene	95-49-8	0.15	U	0.15	4.2	0.96
06192	4-Chlorotoluene	106-43-4	0.15	U	0.15	4.2	0.96
06192	Chlorotrifluoroethene	79-38-9	0.52	U	0.52	5.2	0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73	U	0.73	4.2	0.96
06192	Dibromochloromethane	124-48-1	0.21	U	0.21	4.2	0.96
06192	1,2-Dibromoethane	106-93-4	0.18	U	0.18	4.2	0.96
06192	Dibromomethane	74-95-3	0.25	U	0.25	4.2	0.96
06192	1,2-Dichlorobenzene	95-50-1	0.09	U	0.09	4.2	0.96
06192	1,3-Dichlorobenzene	541-73-1	0.13	U	0.13	4.2	0.96
06192	1,4-Dichlorobenzene	106-46-7	0.17	U	0.17	4.2	0.96
06192	Dichlorodifluoromethane	75-71-8	0.13	U	0.13	4.2	0.96
06192	1,1-Dichloroethane	75-34-3	0.10	U	0.10	4.2	0.96
06192	1,2-Dichloroethane	107-06-2	0.16	U	0.16	4.2	0.96
06192	1,1-Dichloroethene	75-35-4	0.41	U	0.41	4.2	0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.20	U	0.20	4.2	0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.13	U	0.13	4.2	0.96
06192	1,2-Dichloropropane	78-87-5	0.18	U	0.18	4.2	0.96
06192	1,3-Dichloropropane	142-28-9	0.08	U	0.08	4.2	0.96
06192	2,2-Dichloropropane	594-20-7	0.18	U	0.18	4.2	0.96
06192	1,1-Dichloropropene	563-58-6	0.14	U	0.14	4.2	0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.17	U	0.17	4.2	0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.18	U	0.18	4.2	0.96
06192	Ethylbenzene	100-41-4	0.08	J	0.06	4.2	0.96
06192	Freon 113	76-13-1	0.11	U	0.11	4.2	0.96
06192	Freon 133a	75-88-7	0.52	U	0.52	5.2	0.96
06192	Hexachlorobutadiene	87-68-3	0.15	U	0.15	4.2	0.96
06192	2-Hexanone	591-78-6	1.7	U	1.7	8.3	0.96
06192	Isopropylbenzene	98-82-8	0.06	U	0.06	4.2	0.96
06192	p-Isopropyltoluene	99-87-6	0.11	U	0.11	4.2	0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22	U	0.22	4.2	0.96
06192	4-Methyl-2-pentanone	108-10-1	0.41	U	0.41	8.3	0.96
06192	Methylene Chloride	75-09-2	0.72	J	0.25	4.2	0.96
06192	n-Propylbenzene	103-65-1	0.07	U	0.07	4.2	0.96

*=This limit was used in the evaluation of the final result

Sample Description: SL-106-SA7-SB-15.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-15.5

LLI Sample # SW 6422525
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 09:33

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5704 SDG#: DE257-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.10	U	0.10	4.2	0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11	U	0.11	4.2	0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24	U	0.24	4.2	0.96
06192	Tetrachloroethene	127-18-4	0.21	U	0.21	4.2	0.96
06192	Toluene	108-88-3	0.42	J	0.08	4.2	0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.15	U	0.15	4.2	0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.19	U	0.19	4.2	0.96
06192	1,1,1-Trichloroethane	71-55-6	0.21	U	0.21	4.2	0.96
06192	1,1,2-Trichloroethane	79-00-5	0.28	U	0.28	4.2	0.96
06192	Trichloroethene	79-01-6	0.16	U	0.16	4.2	0.96
06192	Trichlorofluoromethane	75-69-4	0.30	U	0.30	4.2	0.96
06192	1,2,3-Trichloropropane	96-18-4	0.34	U	0.34	4.2	0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.42	U	0.42	4.2	0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.10	U	0.10	4.2	0.96
06192	Vinyl Chloride	75-01-4	0.21	U	0.21	4.2	0.96
06192	m+p-Xylene	179601-23-1	0.32	J	0.18	4.2	0.96
06192	o-Xylene	95-47-6	0.18	U	0.18	4.2	0.96
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	5.3	U	5.3	16	24.41
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2	26.6
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11625	Moisture Content by 160.3	n.a.	7.5		0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B112771AA	10/04/2011 16:26	Chelsea B Eastep	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E112732AA	09/30/2011 16:27	Jason M Long	24.41
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201127225692	09/29/2011 14:13	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201127225692	09/29/2011 14:21	Christopher D Meeks	n.a.

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-106-SA7-SB-15.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-15.5

LLI Sample # SW 6422525
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 09:33

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5704 SDG#: DE257-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201127225692	09/29/2011 14:21	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201127225692	09/29/2011 14:13	Christopher D Meeks	n.a.
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11274A34A	10/01/2011 18:10	Laura M Krieger	26.6
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201127225692	09/29/2011 14:12	Christopher D Meeks	n.a.
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162402A	10/05/2011 21:20	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-106-SA7-SB-16.5-17.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-16.5-17.5

LLI Sample # SW 6422526
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 12:45

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5705 SDG#: DE257-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	180	U	180	360	10
	Reporting limits were raised due to interference from the sample matrix.						
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	2-butoxy-Ethanol	111-76-2	1,800	U	1,800	1,800	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-106-SA7-SB-16.5-17.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-16.5-17.5

LLI Sample # SW 6422526
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 12:45

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5705 SDG#: DE257-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	2-phenoxy-Ethanol	122-99-6	1,800	U	1,800	1,800	1
04688	Tetralin	119-64-2	180	U	180	180	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	2.4		0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	3.2		0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	1.3	J	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	J	6.4	19	1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2	26.65
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	650	U	650	1,600	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-106-SA7-SB-16.5-17.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-16.5-17.5

LLI Sample # SW 6422526
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 12:45

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5705 SDG#: DE257-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540	1
10501	Isopropanol	67-63-0	110	U	110	540	1
10501	Methanol	67-56-1	110	U	110	540	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11	1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11	1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3	1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3	1
10199	EFH (C21-C30)	n.a.	4.5		0.43	1.3	1
10199	EFH (C30 - C40)	n.a.	17		0.43	1.3	1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,600		6.41	21.2	1
07914	Boron	7440-42-8	6.76		0.382	5.30	1
01650	Calcium	7440-70-2	3,170		2.65	21.2	1
01654	Iron	7439-89-6	21,100		2.77	21.2	1
01656	Lithium	7439-93-2	20.8		0.66	2.1	1
01657	Magnesium	7439-95-4	3,680		0.466	10.6	1
06958	Manganese	7439-96-5	192		0.0382	0.530	1
10145	Phosphorus	7723-14-0	209		0.371	10.6	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-106-SA7-SB-16.5-17.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-16.5-17.5

LLI Sample # SW 6422526
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 12:45

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5705 SDG#: DE257-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	2,220		12.0	53.0	1
01667	Sodium	7440-23-5	182		6.31	106	1
07968	Strontium	7440-24-6	19.3		0.0265	0.530	1
06969	Tin	7440-31-5	2.89	J	0.339	10.6	1
06970	Titanium	7440-32-6	1,090		0.0753	1.06	1
10146	Zirconium	7440-67-7	1.46	J	0.488	5.30	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.347		0.0792	0.214	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	10.5		0.0856	0.428	2
06126	Barium	7440-39-3	165		0.113	0.428	2
06127	Beryllium	7440-41-7	1.18		0.0171	0.107	2
06128	Cadmium	7440-43-9	0.183		0.0471	0.107	2
06131	Chromium	7440-47-3	31.6		0.128	0.428	2
06132	Cobalt	7440-48-4	9.55		0.0214	0.107	2
06133	Copper	7440-50-8	15.9		0.0856	0.428	2
06135	Lead	7439-92-1	16.3		0.0109	0.214	2
06138	Molybdenum	7439-98-7	0.909		0.0535	0.107	2
06139	Nickel	7440-02-0	19.5		0.107	0.428	2
06141	Selenium	7782-49-2	0.210	J	0.0621	0.428	2
06142	Silver	7440-22-4	0.0434	J	0.0152	0.107	2
06145	Thallium	7440-28-0	0.414		0.0321	0.107	2
06148	Vanadium	7440-62-2	66.1		0.0235	0.107	2
06149	Zinc	7440-66-6	100		0.599	3.21	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0143	J	0.0072	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.2		0.86	1.1	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6		0.86	1.6	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	8.5	J	2.0	10.2	10
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.96		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.5		0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-106-SA7-SB-16.5-17.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-16.5-17.5

LLI Sample # SW 6422526
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 12:45

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5705 SDG#: DE257-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-106-SA7-SB-17.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11280SLB026	10/11/2011 13:09	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11283SLA026	10/14/2011 19:03	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11281SLA026	10/13/2011 22:35	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11280SLB026	10/07/2011 17:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11281SLA026	10/10/2011 10:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11283SLA026	10/11/2011 10:15	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11274A34A	10/01/2011 18:46	Laura M Krieger	26.65
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201127225692	09/29/2011 14:16	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201127225692	09/29/2011 14:17	Christopher D Meeks	n.a.
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112740006A	10/05/2011 22:21	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112800018A	10/20/2011 18:55	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112800018A	10/08/2011 08:00	Katheryne V Sponheimer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112740006A	10/03/2011 19:00	Wanda F Oswald	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112730032A	10/03/2011 22:45	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112790048A	10/06/2011 21:31	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112790037A	10/11/2011 08:20	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112790036A	10/09/2011 00:28	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112790036A	10/07/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112790037A	10/07/2011 07:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112730032A	10/03/2011 16:00	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-106-SA7-SB-16.5-17.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-16.5-17.5

LLI Sample # SW 6422526
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 12:45

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5705 SDG#: DE257-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112790048A	10/06/2011 17:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112725708002	10/11/2011 15:03	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112725708002	10/11/2011 15:03	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112725708002	10/11/2011 15:03	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112725708002	10/11/2011 15:03	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112725708002	10/11/2011 15:03	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112725708002	10/11/2011 15:03	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112725708002	10/11/2011 15:03	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112725708002	10/11/2011 15:03	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112725708002	10/11/2011 15:03	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112725708002	10/11/2011 15:03	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112725708002	10/11/2011 15:03	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112725708002	10/11/2011 15:03	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112725708002	10/11/2011 15:03	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112725708002	10/11/2011 15:03	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112721026002A	09/30/2011 11:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112721026002A	09/30/2011 11:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112721026002D	09/30/2011 11:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112721026002A	09/30/2011 11:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112721026002A	09/30/2011 11:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112721026002A	09/30/2011 11:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112721026002A	09/30/2011 11:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112721026002A	09/30/2011 11:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112721026002A	09/30/2011 11:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112721026002C	09/30/2011 11:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112721026002A	09/30/2011 11:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112721026002B	09/30/2011 11:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112721026002A	09/30/2011 11:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112721026002A	09/30/2011 11:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112721026002A	09/30/2011 11:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112721026002A	09/30/2011 11:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112725711003	09/30/2011 07:47	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708002	09/29/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026002	09/29/2011 22:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711003	09/30/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285285201A	10/14/2011 01:21	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11285285201A	10/14/2011 01:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11278621201A	10/06/2011 22:18	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11283243202A	10/12/2011 15:20	Elyse P Brunstetter	10
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285285201A	10/12/2011 07:00	Nancy J Shoop	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-106-SA7-SB-16.5-17.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-16.5-17.5

LLI Sample # SW 6422526
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 12:45

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5705 SDG#: DE257-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11278621201A	10/05/2011 07:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039401A	10/12/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 11:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162402A	10/05/2011 21:20	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-106-SA7-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-19.0-20.0

LLI Sample # SW 6422527
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 09:50

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5706 SDG#: DE257-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	179	U	179	357	10
	Reporting limits were raised due to interference from the sample matrix.						
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	2-butoxy-Ethanol	111-76-2	1,800	U	1,800	1,800	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-106-SA7-SB-19.0-20.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-19.0-20.0

LLI Sample # SW 6422527
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 09:50

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5706 SDG#: DE257-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	2-phenoxy-Ethanol	122-99-6	1,800	U	1,800	1,800	1
04688	Tetralin	119-64-2	180	U	180	180	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	1.3	J	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	5.9		0.70	1.8	1
10138	Benzo(a)pyrene	50-32-8	5.6		0.70	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	8.8		0.70	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.4	J	0.70	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	3.8		0.70	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	6.9		0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	15	J	6.3	19	1
10138	Fluoranthene	206-44-0	13		0.70	1.8	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.3	J	0.70	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	5.4		0.70	1.8	1
10138	Pyrene	129-00-0	14		0.70	1.8	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1	26.26
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	1,200	J	640	1,600	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-106-SA7-SB-19.0-20.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-19.0-20.0

LLI Sample # SW 6422527
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 09:50

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5706 SDG#: DE257-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	1.8		0.42	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540	1
10501	Isopropanol	67-63-0	110	U	110	540	1
10501	Methanol	67-56-1	110	U	110	540	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11	1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11	1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.3	U	4.3	13	10
10199	EFH (C15-C20)	n.a.	4.3	U	4.3	13	10
10199	EFH (C21-C30)	n.a.	23		4.3	13	10
10199	EFH (C30 - C40)	n.a.	98		4.3	13	10
10199	EFH (C8-C11)	n.a.	4.3	U	4.3	13	10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,700		6.30	20.8	1
07914	Boron	7440-42-8	5.79		0.375	5.20	1
01650	Calcium	7440-70-2	5,010		2.60	20.8	1
01654	Iron	7439-89-6	19,000		2.72	20.8	1
01656	Lithium	7439-93-2	23.1		0.65	2.1	1
01657	Magnesium	7439-95-4	4,380		0.458	10.4	1
06958	Manganese	7439-96-5	297		0.0375	0.520	1
10145	Phosphorus	7723-14-0	342		0.364	10.4	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-106-SA7-SB-19.0-20.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-19.0-20.0

LLI Sample # SW 6422527
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 09:50

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5706 SDG#: DE257-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	2,820		11.8	52.0	1
01667	Sodium	7440-23-5	158		6.19	104	1
07968	Strontium	7440-24-6	19.0		0.0260	0.520	1
06969	Tin	7440-31-5	2.77	J	0.333	10.4	1
06970	Titanium	7440-32-6	1,120		0.0739	1.04	1
10146	Zirconium	7440-67-7	1.26	J	0.479	5.20	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.143	J	0.0778	0.210	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.25		0.0841	0.420	2
06126	Barium	7440-39-3	105		0.111	0.420	2
06127	Beryllium	7440-41-7	0.651		0.0168	0.105	2
06128	Cadmium	7440-43-9	0.186		0.0462	0.105	2
06131	Chromium	7440-47-3	28.1		0.126	0.420	2
06132	Cobalt	7440-48-4	6.42		0.0210	0.105	2
06133	Copper	7440-50-8	9.86		0.0841	0.420	2
06135	Lead	7439-92-1	6.75		0.0107	0.210	2
06138	Molybdenum	7439-98-7	4.43		0.0525	0.105	2
06139	Nickel	7440-02-0	13.8		0.105	0.420	2
06141	Selenium	7782-49-2	0.213	J	0.0609	0.420	2
06142	Silver	7440-22-4	0.0200	J	0.0149	0.105	2
06145	Thallium	7440-28-0	0.311		0.0315	0.105	2
06148	Vanadium	7440-62-2	38.4		0.0231	0.105	2
06149	Zinc	7440-66-6	100		0.588	3.15	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	J	0.0072	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.85	1.1	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.85	1.6	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.44		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.7		0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-106-SA7-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-19.0-20.0

LLI Sample # SW 6422527
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 09:50

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5706 SDG#: DE257-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-106-SA7-SB-19.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11280SLB026	10/11/2011 13:28	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11283SLA026	10/14/2011 19:28	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11281SLA026	10/12/2011 19:32	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11280SLB026	10/07/2011 17:30	JoElla L Rice	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11281SLA026	10/10/2011 10:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11283SLA026	10/11/2011 10:15	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11274A34A	10/01/2011 19:22	Laura M Krieger	26.26
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201127225692	09/29/2011 14:18	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201127225692	09/29/2011 14:18	Christopher D Meeks	n.a.
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112740006A	10/05/2011 22:40	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112800018A	10/20/2011 19:14	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112800018A	10/08/2011 08:00	Katheryne V Sponheimer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112740006A	10/03/2011 19:00	Wanda F Oswald	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112730032A	10/03/2011 23:02	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112790048A	10/06/2011 21:43	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112790037A	10/11/2011 08:47	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112790036A	10/09/2011 05:38	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112790036A	10/07/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112790037A	10/07/2011 07:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112730032A	10/03/2011 16:00	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-106-SA7-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-19.0-20.0

LLI Sample # SW 6422527
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 09:50

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5706 SDG#: DE257-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112790048A	10/06/2011 17:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112725708002	10/11/2011 15:07	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112725708002	10/11/2011 15:07	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112725708002	10/11/2011 15:07	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112725708002	10/11/2011 15:07	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112725708002	10/11/2011 15:07	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112725708002	10/11/2011 15:07	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112725708002	10/11/2011 15:07	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112725708002	10/11/2011 15:07	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112725708002	10/11/2011 15:07	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112725708002	10/11/2011 15:07	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112725708002	10/11/2011 15:07	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112725708002	10/11/2011 15:07	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112725708002	10/11/2011 15:07	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112725708002	10/11/2011 15:07	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112721026002A	09/30/2011 11:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112721026002A	09/30/2011 11:59	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112721026002D	09/30/2011 11:59	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112721026002A	09/30/2011 11:59	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112721026002A	09/30/2011 11:59	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112721026002A	09/30/2011 11:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112721026002A	09/30/2011 11:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112721026002A	09/30/2011 11:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112721026002A	09/30/2011 11:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112721026002C	09/30/2011 11:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112721026002A	09/30/2011 11:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112721026002B	09/30/2011 11:59	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112721026002A	09/30/2011 11:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112721026002A	09/30/2011 11:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112721026002A	09/30/2011 11:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112721026002A	09/30/2011 11:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112725711003	09/30/2011 07:48	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708002	09/29/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026002	09/29/2011 22:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711003	09/30/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285285201A	10/14/2011 01:33	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11285285201A	10/14/2011 01:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11278621201A	10/06/2011 22:41	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11283243202A	10/12/2011 15:33	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285285201A	10/12/2011 07:00	Nancy J Shoop	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-106-SA7-SB-19.0-20.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-19.0-20.0

LLI Sample # SW 6422527
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 09:50

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5706 SDG#: DE257-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11278621201A	10/05/2011 07:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039401A	10/12/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 11:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162402A	10/05/2011 21:20	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: TB-092711 Water
SSFL Area IV Collocated Soil Sampling
TB-092711

LLI Sample # WW 6422528
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 14:30

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5707 SDG#: DE257-07TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10904	Acetone	67-64-1	6	U	6	20	1
10904	Benzene	71-43-2	0.5	U	0.5	5	1
10904	Bromobenzene	108-86-1	1	U	1	5	1
10904	Bromochloromethane	74-97-5	1	U	1	5	1
10904	Bromodichloromethane	75-27-4	1	U	1	5	1
10904	Bromoform	75-25-2	1	U	1	5	1
10904	Bromomethane	74-83-9	1	U	1	5	1
10904	2-Butanone	78-93-3	3	U	3	10	1
10904	n-Butylbenzene	104-51-8	1	U	1	5	1
10904	sec-Butylbenzene	135-98-8	1	U	1	5	1
10904	tert-Butylbenzene	98-06-6	1	U	1	5	1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5	1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5	1
10904	Chloroethane	75-00-3	1	U	1	5	1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.						
10904	Chloroform	67-66-3	0.8	U	0.8	5	1
10904	Chloromethane	74-87-3	1	U	1	5	1
10904	2-Chlorotoluene	95-49-8	1	U	1	5	1
10904	4-Chlorotoluene	106-43-4	1	U	1	5	1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5	1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10904	Dibromochloromethane	124-48-1	1	U	1	5	1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5	1
10904	Dibromomethane	74-95-3	1	U	1	5	1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5	1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5	1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5	1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5	1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5	1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5	1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5	1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5	1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5	1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5	1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5	1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5	1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5	1
10904	Freon 113	76-13-1	2	U	2	10	1
10904	Freon 133a	75-88-7	2	U	2	5	1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5	1
10904	2-Hexanone	591-78-6	3	U	3	10	1
10904	Isopropylbenzene	98-82-8	1	U	1	5	1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5	1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5	1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: TB-092711 Water
SSFL Area IV Collocated Soil Sampling
TB-092711

LLI Sample # WW 6422528
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 14:30

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5707 SDG#: DE257-07TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5	1
10904	n-Propylbenzene	103-65-1	1	U	1	5	1
10904	Styrene	100-42-5	1	U	1	5	1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5	1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5	1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5	1
10904	Toluene	108-88-3	0.7	U	0.7	5	1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5	1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5	1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5	1
10904	Trichloroethene	79-01-6	1	U	1	5	1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5	1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5	1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5	1
10904	Vinyl Chloride	75-01-4	1	U	1	5	1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5	1
10904	o-Xylene	95-47-6	0.8	U	0.8	5	1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0	1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260B	SW-846 8260B	1	Y112722AA	09/29/2011 20:44	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E112722AA	09/29/2011 21:42	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y112722AA	09/29/2011 20:44	Frank A Valla, Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E112722AA	09/29/2011 21:42	Sara E Johnson	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11279A20A	10/07/2011 12:30	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11279A20A	10/07/2011 12:30	Marie D John	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-007-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422529
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 08:00

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5708 SDG#: DE257-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	500	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	500	1
04688	Benzyl alcohol	100-51-6	170	U	170	500	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	67	U	67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	67	U	67	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	500	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	500	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-007-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422529
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 08:00

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5708 SDG#: DE257-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7	1
10138	Acenaphthylene	208-96-8	0.33	U	0.33	1.7	1
10138	Anthracene	120-12-7	0.33	U	0.33	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.67	U	0.67	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	4.9		0.67	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18	1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18	1
10138	Chrysene	218-01-9	0.84	J	0.33	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7	1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18	1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	10	J	6.0	18	1
10138	Fluoranthene	206-44-0	1.0	J	0.67	1.7	1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7	1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18	1
10138	Phenanthrene	85-01-8	0.67	U	0.67	1.7	1
10138	Pyrene	129-00-0	1.0	J	0.67	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6	1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1	1
10401	2,4-DB	94-82-6	2.2	U	2.2	2.2	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7	1
10401	MCPA	94-74-6	77	U	77	250	1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250	1
10401	2,4,5-T	93-76-5	0.59	U	0.59	0.59	1
10401	2,4,5-TP	93-72-1	0.25	U	0.25	0.25	1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4,5-TP, 2,4,5-T, and 2,4-DB.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-007-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422529
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 08:00

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5708 SDG#: DE257-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17	1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17	1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17	1
01363	Chlordane	57-74-9	1.9	J	0.81	3.4	1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34	1
01363	p,p-DDE	72-55-9	0.78		0.067	0.34	1
01363	p,p-DDT	50-29-3	0.64		0.067	0.34	1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17	1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34	1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17	1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34	1
01363	Endrin	72-20-8	0.067	U	0.067	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.34	1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34	1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17	1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7	1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34	1
01363	Toxaphene	8001-35-2	4.9	U	4.9	6.7	1

The DCB surrogate recovery is above the client specified client limits of 20-120% for the method blank, Laboratory Control Sample, and this sample; however the recovery is within the in house statistical limits of 45-150%.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	3.3	J	1.0	3.3	1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	1.2	J	0.33	1.7	1
10225	PCB-1260	11096-82-5	1.5	J	0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,200		6.08	20.1	1
07914	Boron	7440-42-8	8.27		0.362	5.03	1
01650	Calcium	7440-70-2	3,100		2.51	20.1	1
01654	Iron	7439-89-6	22,700		2.62	20.1	1
01656	Lithium	7439-93-2	16.3		0.62	2.0	1
01657	Magnesium	7439-95-4	4,860		0.442	10.1	1
06958	Manganese	7439-96-5	257		0.0362	0.503	1
10145	Phosphorus	7723-14-0	594		0.352	10.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-007-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422529
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 08:00

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5708 SDG#: DE257-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	2,500		11.4	50.3	1
01667	Sodium	7440-23-5	87.7	J	5.98	101	1
07968	Strontium	7440-24-6	24.5		0.0251	0.503	1
06969	Tin	7440-31-5	2.67	J	0.322	10.1	1
06970	Titanium	7440-32-6	1,180		0.0714	1.01	1
10146	Zirconium	7440-67-7	6.09		0.462	5.03	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.271		0.0722	0.195	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.01		0.0781	0.390	2
06126	Barium	7440-39-3	79.1		0.103	0.390	2
06127	Beryllium	7440-41-7	0.643		0.0156	0.0976	2
06128	Cadmium	7440-43-9	0.203		0.0430	0.0976	2
06131	Chromium	7440-47-3	37.6		0.117	0.390	2
06132	Cobalt	7440-48-4	6.77		0.0195	0.0976	2
06133	Copper	7440-50-8	7.44		0.0781	0.390	2
06135	Lead	7439-92-1	14.2		0.010	0.195	2
06138	Molybdenum	7439-98-7	0.705		0.0488	0.0976	2
06139	Nickel	7440-02-0	12.7		0.0976	0.390	2
06141	Selenium	7782-49-2	0.204	J	0.0566	0.390	2
06142	Silver	7440-22-4	0.0242	J	0.0139	0.0976	2
06145	Thallium	7440-28-0	0.184		0.0293	0.0976	2
06148	Vanadium	7440-62-2	64.8		0.0215	0.0976	2
06149	Zinc	7440-66-6	57.8		0.547	2.93	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0121	J	0.0069	0.0981	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1		0.20	0.98	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.20		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.5		0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-007-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422529
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 08:00

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5708 SDG#: DE257-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11283SLA026	10/14/2011 19:53	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11281SLA026	10/12/2011 20:04	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11281SLA026	10/10/2011 10:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11283SLA026	10/11/2011 10:15	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112790018A	10/08/2011 21:56	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112800017A	10/12/2011 21:55	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112800018A	10/20/2011 19:33	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112800017A	10/08/2011 11:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112800018A	10/08/2011 08:00	Katheryne V Sponheimer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112790018A	10/07/2011 03:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112725708002	10/11/2011 15:12	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112725708002	10/11/2011 15:12	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112725708002	10/11/2011 15:12	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112725708002	10/11/2011 15:12	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112725708002	10/11/2011 15:12	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112725708002	10/11/2011 15:12	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112725708002	10/11/2011 15:12	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112725708002	10/11/2011 15:12	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112725708002	10/11/2011 15:12	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112725708002	10/11/2011 15:12	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112725708002	10/11/2011 15:12	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112725708002	10/11/2011 15:12	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112725708002	10/11/2011 15:12	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112725708002	10/11/2011 15:12	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112721026002A	09/30/2011 12:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112721026002A	09/30/2011 12:02	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112721026002D	09/30/2011 12:02	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112721026002A	09/30/2011 12:02	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-007-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422529
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 08:00

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Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5708 SDG#: DE257-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112721026002A	09/30/2011 12:02	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112721026002A	09/30/2011 12:02	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112721026002A	09/30/2011 12:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112721026002A	09/30/2011 12:02	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112721026002A	09/30/2011 12:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112721026002C	09/30/2011 12:02	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112721026002A	09/30/2011 12:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112721026002B	09/30/2011 12:02	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112721026002A	09/30/2011 12:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112721026002A	09/30/2011 12:02	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112721026002A	09/30/2011 12:02	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112721026002A	09/30/2011 12:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112725711003	09/30/2011 07:49	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708002	09/29/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026002	09/29/2011 22:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711003	09/30/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285285201A	10/14/2011 02:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11278621201A	10/06/2011 23:04	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11283243202A	10/12/2011 15:47	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285285201A	10/12/2011 07:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11278621201A	10/05/2011 07:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039401A	10/12/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 11:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162402A	10/05/2011 21:20	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422530
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 07:30

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5709 SDG#: DE257-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	68	U	68	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	68	U	68	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-008-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422530
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 07:30

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5709 SDG#: DE257-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7	1
10138	Acenaphthylene	208-96-8	0.33	U	0.33	1.7	1
10138	Anthracene	120-12-7	0.33	U	0.33	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.87	J	0.67	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	1.5	J	0.67	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	3.1		0.67	1.7	1
10138	Butylbenzylphthalate	85-68-7	11	J	6.0	18	1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18	1
10138	Chrysene	218-01-9	1.2	J	0.33	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7	1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18	1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J	6.0	18	1
10138	Fluoranthene	206-44-0	1.6	J	0.67	1.7	1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7	1
10138	Naphthalene	91-20-3	0.77	J	0.67	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18	1
10138	Phenanthrene	85-01-8	0.77	J	0.67	1.7	1
10138	Pyrene	129-00-0	1.3	J	0.67	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1	1
10401	2,4-DB	94-82-6	2.4	U	2.4	2.4	1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2	1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7	1
10401	MCPA	94-74-6	77	U	77	250	1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250	1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17	1
10401	2,4,5-TP	93-72-1	0.21	U	0.21	0.21	1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4,5-TP, and 2,4-DB.

Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-008-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422530
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 07:30

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5709 SDG#: DE257-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.1	U	2.1	5.1	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17	1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17	1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17	1
01363	Chlordane	57-74-9	1.9	J	0.81	3.4	1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34	1
01363	p,p-DDE	72-55-9	0.53		0.067	0.34	1
01363	p,p-DDT	50-29-3	0.56		0.067	0.34	1
01363	Delta BHC	319-86-8	0.038	J	0.037	0.17	1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34	1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17	1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34	1
01363	Endrin	72-20-8	0.067	U	0.067	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.17	U	0.17	0.34	1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34	1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.056	U	0.056	0.17	1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7	1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34	1
01363	Toxaphene	8001-35-2	5.0	U	5.0	6.7	1

The DCB surrogate recovery is above the client specified client limits of 20-120% for the method blank and Laboratory Control Sample; however the recovery is within the in house statistical limits of 45-150%.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	3.1	J	1.0	3.3	1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	1.6	J	0.33	1.7	1
10225	PCB-1260	11096-82-5	0.39	U	0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,700		6.05	20.0	1
07914	Boron	7440-42-8	4.38	J	0.360	5.00	1
01650	Calcium	7440-70-2	2,820		2.50	20.0	1
01654	Iron	7439-89-6	17,900		2.61	20.0	1
01656	Lithium	7439-93-2	25.1		0.62	2.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-008-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422530
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 07:30

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5709 SDG#: DE257-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	4,490		0.440	9.99	1
06958	Manganese	7439-96-5	258		0.0360	0.500	1
10145	Phosphorus	7723-14-0	340		0.350	9.99	1
01662	Potassium	7440-09-7	2,850		11.3	50.0	1
01667	Sodium	7440-23-5	69.5	J	5.95	99.9	1
07968	Strontium	7440-24-6	10.8		0.0250	0.500	1
06969	Tin	7440-31-5	2.57	J	0.320	9.99	1
06970	Titanium	7440-32-6	1,110		0.0710	0.999	1
10146	Zirconium	7440-67-7	0.970	J	0.460	5.00	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.105	J	0.0732	0.198	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.51		0.0792	0.396	2
06126	Barium	7440-39-3	97.4		0.105	0.396	2
06127	Beryllium	7440-41-7	0.523		0.0158	0.0990	2
06128	Cadmium	7440-43-9	0.125		0.0435	0.0990	2
06131	Chromium	7440-47-3	16.6		0.119	0.396	2
06132	Cobalt	7440-48-4	6.13		0.0198	0.0990	2
06133	Copper	7440-50-8	7.88		0.0792	0.396	2
06135	Lead	7439-92-1	5.33		0.0101	0.198	2
06138	Molybdenum	7439-98-7	0.439		0.0495	0.0990	2
06139	Nickel	7440-02-0	12.0		0.0990	0.396	2
06141	Selenium	7782-49-2	0.0809	J	0.0574	0.396	2
06142	Silver	7440-22-4	0.0787	J	0.0141	0.0990	2
06145	Thallium	7440-28-0	0.284		0.0297	0.0990	2
06148	Vanadium	7440-62-2	34.9		0.0218	0.0990	2
06149	Zinc	7440-66-6	72.7		0.554	2.97	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0069	U	0.0069	0.0979	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1		0.81	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.6	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.48	J	0.20	0.99	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.33		0.0100	0.0100	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-008-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422530
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 07:30

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5709 SDG#: DE257-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	1.9	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11283SLA026	10/14/2011 20:19	Matthew S Woods	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11281SLA026	10/13/2011 23:08	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11281SLA026	10/10/2011 10:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11283SLA026	10/11/2011 10:15	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112790018A	10/08/2011 22:23	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112770016A	10/05/2011 19:41	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112800017A	10/12/2011 22:10	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112800018A	10/20/2011 19:52	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112800017A	10/08/2011 11:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112800018A	10/08/2011 08:00	Katheryne V Sponheimer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112790018A	10/07/2011 03:00	Kerrie A Freeburn	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112770016A	10/05/2011 09:00	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	112725708002	10/11/2011 15:16	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112725708002	10/11/2011 15:16	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112725708002	10/11/2011 15:16	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112725708002	10/11/2011 15:16	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112725708002	10/11/2011 15:16	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112725708002	10/11/2011 15:16	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112725708002	10/11/2011 15:16	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112725708002	10/11/2011 15:16	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112725708002	10/11/2011 15:16	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112725708002	10/11/2011 15:16	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112725708002	10/11/2011 15:16	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112725708002	10/11/2011 15:16	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112725708002	10/11/2011 15:16	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-008-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422530
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 07:30

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5709 SDG#: DE257-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	112725708002	10/11/2011 15:16	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112721026002A	09/30/2011 12:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112721026002A	09/30/2011 12:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112721026002D	09/30/2011 12:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112721026002A	09/30/2011 12:06	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112721026002A	09/30/2011 12:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112721026002A	09/30/2011 12:06	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112721026002A	09/30/2011 12:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112721026002A	09/30/2011 12:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112721026002A	09/30/2011 12:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112721026002C	09/30/2011 12:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112721026002A	09/30/2011 12:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112721026002B	09/30/2011 12:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112721026002A	09/30/2011 12:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112721026002A	09/30/2011 12:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112721026002A	09/30/2011 12:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112721026002A	09/30/2011 12:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112725711003	09/30/2011 07:50	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708002	09/29/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026002	09/29/2011 22:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711003	09/30/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285285201A	10/14/2011 02:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11278621201A	10/06/2011 23:27	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243202A	10/12/2011 15:53	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285285201A	10/12/2011 07:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11278621201A	10/05/2011 07:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039401A	10/12/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 11:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162402A	10/05/2011 21:20	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-009-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422531
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 09:50

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5710 SDG#: DE257-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	67	U	67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	67	U	67	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-009-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422531
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 09:50

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5710 SDG#: DE257-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7	1
10138	Acenaphthylene	208-96-8	0.33	U	0.33	1.7	1
10138	Anthracene	120-12-7	0.33	U	0.33	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.84	J	0.67	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	1.4	J	0.67	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	2.7		0.67	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18	1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18	1
10138	Chrysene	218-01-9	1.2	J	0.33	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7	1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18	1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.5	J	6.0	18	1
10138	Fluoranthene	206-44-0	1.7		0.67	1.7	1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7	1
10138	Naphthalene	91-20-3	0.96	J	0.67	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18	1
10138	Phenanthrene	85-01-8	1.1	J	0.67	1.7	1
10138	Pyrene	129-00-0	1.5	J	0.67	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6	1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1	1
10401	2,4-DB	94-82-6	1.3	U	1.3	1.7	1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2	1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7	1
10401	MCPA	94-74-6	77	U	77	250	1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250	1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17	1
10401	2,4,5-TP	93-72-1	0.30		0.076	0.17	1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-009-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422531
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 09:50

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5710 SDG#: DE257-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17	1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17	1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17	1
01363	Chlordane	57-74-9	2.0	J	0.81	3.4	1
01363	p,p-DDD	72-54-8	0.084	U	0.084	0.34	1
01363	p,p-DDE	72-55-9	0.31	J	0.067	0.34	1
01363	p,p-DDT	50-29-3	0.56		0.067	0.34	1
01363	Delta BHC	319-86-8	0.071	J	0.036	0.17	1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34	1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34	1
01363	Endrin	72-20-8	0.067	U	0.067	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.089	J	0.067	0.34	1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34	1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17	1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7	1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34	1
01363	Toxaphene	8001-35-2	3.9	U	3.9	6.7	1

The DCB surrogate recovery is above the client specified client limits of 20-120% for the method blank and Laboratory Control Sample; however the recovery is within the in house statistical limits of 45-150%.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	3.5		1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7	1
10225	PCB-1254	11097-69-1	2.0		0.34	1.7	1
10225	PCB-1260	11096-82-5	1.8		0.40	1.7	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7	1

The surrogate recovery was outside the client specified QC limits. However, the recovery is within our in house statistical limits of 53-142% for DCB. The data is reported

Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,500	6.14	20.3	1
07914	Boron	7440-42-8	7.25	0.365	5.08	1
01650	Calcium	7440-70-2	3,230	2.54	20.3	1
01654	Iron	7439-89-6	21,900	2.65	20.3	1
01656	Lithium	7439-93-2	15.6	0.63	2.0	1
01657	Magnesium	7439-95-4	4,660	0.447	10.2	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-009-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422531
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 09:50

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5710 SDG#: DE257-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	282		0.0365	0.508	1
10145	Phosphorus	7723-14-0	586		0.355	10.2	1
01662	Potassium	7440-09-7	2,680		11.5	50.8	1
01667	Sodium	7440-23-5	88.4	J	6.04	102	1
07968	Strontium	7440-24-6	26.8		0.0254	0.508	1
06969	Tin	7440-31-5	2.78	J	0.325	10.2	1
06970	Titanium	7440-32-6	1,160		0.0721	1.02	1
10146	Zirconium	7440-67-7	5.85		0.467	5.08	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.294		0.0737	0.199	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.31		0.0796	0.398	2
06126	Barium	7440-39-3	90.8		0.106	0.398	2
06127	Beryllium	7440-41-7	0.694		0.0159	0.0995	2
06128	Cadmium	7440-43-9	0.221		0.0438	0.0995	2
06131	Chromium	7440-47-3	38.3		0.119	0.398	2
06132	Cobalt	7440-48-4	7.48		0.0199	0.0995	2
06133	Copper	7440-50-8	8.34		0.0796	0.398	2
06135	Lead	7439-92-1	14.8		0.0102	0.199	2
06138	Molybdenum	7439-98-7	0.696		0.0498	0.0995	2
06139	Nickel	7440-02-0	13.4		0.0995	0.398	2
06141	Selenium	7782-49-2	0.222	J	0.0577	0.398	2
06142	Silver	7440-22-4	0.0309	J	0.0141	0.0995	2
06145	Thallium	7440-28-0	0.216		0.0299	0.0995	2
06148	Vanadium	7440-62-2	65.4		0.0219	0.0995	2
06149	Zinc	7440-66-6	61.2		0.557	2.99	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0105	J	0.0069	0.0983	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.68	J	0.20	0.99	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	5.96		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-009-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422531
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 09:50

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5710 SDG#: DE257-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	1.5	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11283SLA026	10/15/2011 19:12	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11281SLA026	10/13/2011 23:41	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11281SLA026	10/10/2011 10:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11283SLA026	10/11/2011 10:15	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112790018A	10/08/2011 22:51	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112800017A	10/12/2011 22:25	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112800018A	10/20/2011 20:10	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112800017A	10/08/2011 11:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112800018A	10/08/2011 08:00	Katheryne V Sponheimer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112790018A	10/07/2011 03:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112725708002	10/11/2011 15:20	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112725708002	10/11/2011 15:20	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112725708002	10/11/2011 15:20	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112725708002	10/11/2011 15:20	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112725708002	10/11/2011 15:20	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112725708002	10/11/2011 15:20	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112725708002	10/11/2011 15:20	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112725708002	10/11/2011 15:20	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112725708002	10/11/2011 15:20	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112725708002	10/11/2011 15:20	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112725708002	10/11/2011 15:20	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112725708002	10/11/2011 15:20	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112725708002	10/11/2011 15:20	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112725708002	10/11/2011 15:20	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112721026002A	09/30/2011 12:09	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112721026002A	09/30/2011 12:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112721026002D	09/30/2011 12:09	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422531
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 09:50

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5710 SDG#: DE257-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	112721026002A	09/30/2011 12:09	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112721026002A	09/30/2011 12:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112721026002A	09/30/2011 12:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112721026002A	09/30/2011 12:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112721026002A	09/30/2011 12:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112721026002A	09/30/2011 12:09	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112721026002C	09/30/2011 12:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112721026002A	09/30/2011 12:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112721026002B	09/30/2011 12:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112721026002A	09/30/2011 12:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112721026002A	09/30/2011 12:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112721026002A	09/30/2011 12:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112721026002A	09/30/2011 12:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112725711003	09/30/2011 07:52	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708002	09/29/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026002	09/29/2011 22:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711003	09/30/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285285201A	10/14/2011 02:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11278621201A	10/06/2011 23:50	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11283243202A	10/12/2011 16:27	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285285201A	10/12/2011 07:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11278621201A	10/05/2011 07:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039401A	10/12/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 11:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162402A	10/05/2011 21:20	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-010-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422532
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 08:20

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5711 SDG#: DE257-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	68	U	68	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	68	U	68	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-010-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422532
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 08:20

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5711 SDG#: DE257-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7	1
10138	Acenaphthylene	208-96-8	0.33	U	0.33	1.7	1
10138	Anthracene	120-12-7	0.33	U	0.33	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.89	J	0.67	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	1.5	J	0.67	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	3.7		0.67	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18	1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18	1
10138	Chrysene	218-01-9	1.3	J	0.33	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7	1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18	1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.0	U	6.0	18	1
10138	Fluoranthene	206-44-0	1.8		0.67	1.7	1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7	1
10138	Naphthalene	91-20-3	0.84	J	0.67	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18	1
10138	Phenanthrene	85-01-8	0.90	J	0.67	1.7	1
10138	Pyrene	129-00-0	1.4	J	0.67	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	2.6	U	2.6	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1	1
10401	2,4-DB	94-82-6	56	U	56	56	5
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7	1
10401	MCPA	94-74-6	77	U	77	250	1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250	1
10401	2,4,5-T	93-76-5	0.32	U	0.32	0.32	1
10401	2,4,5-TP	93-72-1	0.19		0.076	0.17	1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-D, 2,4,5-T, and 2,4-DB.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-010-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422532
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 08:20

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5711 SDG#: DE257-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17	1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17	1
01363	Beta BHC	319-85-7	0.078	J	0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17	1
01363	Chlordane	57-74-9	3.0	J	0.81	3.4	1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34	1
01363	p,p-DDE	72-55-9	0.42		0.067	0.34	1
01363	p,p-DDT	50-29-3	0.63		0.067	0.34	1
01363	Delta BHC	319-86-8	0.061	J	0.036	0.17	1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34	1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34	1
01363	Endrin	72-20-8	0.067	U	0.067	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.13	U	0.13	0.34	1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34	1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.047	U	0.047	0.17	1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7	1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34	1
01363	Toxaphene	8001-35-2	3.8	U	3.8	6.7	1

The DCB surrogate recovery is above the client specified client limits of 20-120% for the method blank and Laboratory Control Sample; however the recovery is within the in house statistical limits of 45-150%.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	3.1	J	1.0	3.3	1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	2.0		0.33	1.7	1
10225	PCB-1260	11096-82-5	1.2	J	0.40	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1

The surrogate recovery was outside the client specified QC limits. However, the recovery is within our in house statistical limits of 53-142% for DCB. The data is reported

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,800		6.08	20.1	1
07914	Boron	7440-42-8	7.30		0.361	5.02	1
01650	Calcium	7440-70-2	3,450		2.51	20.1	1
01654	Iron	7439-89-6	22,100		2.62	20.1	1
01656	Lithium	7439-93-2	16.7		0.62	2.0	1
01657	Magnesium	7439-95-4	4,590		0.442	10.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-010-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422532
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 08:20

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5711 SDG#: DE257-11

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals		**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
06958	Manganese		7439-96-5	298		0.0361	0.502	1
10145	Phosphorus		7723-14-0	660		0.351	10.0	1
01662	Potassium		7440-09-7	2,660		11.3	50.2	1
01667	Sodium		7440-23-5	91.2	J	5.97	100	1
07968	Strontium		7440-24-6	24.9		0.0251	0.502	1
06969	Tin		7440-31-5	2.63	J	0.321	10.0	1
06970	Titanium		7440-32-6	1,200		0.0713	1.00	1
10146	Zirconium		7440-67-7	6.14		0.462	5.02	1
		SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony		7440-36-0	0.307		0.0736	0.199	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic		7440-38-2	7.13		0.0795	0.398	2
06126	Barium		7440-39-3	101		0.105	0.398	2
06127	Beryllium		7440-41-7	0.766		0.0159	0.0994	2
06128	Cadmium		7440-43-9	0.297		0.0437	0.0994	2
06131	Chromium		7440-47-3	46.2		0.119	0.398	2
06132	Cobalt		7440-48-4	9.03		0.0199	0.0994	2
06133	Copper		7440-50-8	9.76		0.0795	0.398	2
06135	Lead		7439-92-1	18.9		0.0101	0.199	2
06138	Molybdenum		7439-98-7	0.792		0.0497	0.0994	2
06139	Nickel		7440-02-0	15.9		0.0994	0.398	2
06141	Selenium		7782-49-2	0.252	J	0.0577	0.398	2
06142	Silver		7440-22-4	0.0320	J	0.0141	0.0994	2
06145	Thallium		7440-28-0	0.248		0.0298	0.0994	2
06148	Vanadium		7440-62-2	77.0		0.0219	0.0994	2
06149	Zinc		7440-66-6	73.5		0.557	2.98	2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0133	J	0.0067	0.0947	1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	0.81	U	0.81	1.0	1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	9.1	U	9.1	30.4	1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.21	J	0.20	1.0	1
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C		n.a.	6.05		0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-010-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422532
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 08:20

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5711 SDG#: DE257-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	1.4	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11283SLA026	10/15/2011 19:36	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11281SLA026	10/14/2011 00:14	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11281SLA026	10/10/2011 10:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11283SLA026	10/11/2011 10:15	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112790018A	10/08/2011 23:18	John W Perkins	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112790018A	10/11/2011 22:03	John W Perkins	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	112800017A	10/12/2011 22:40	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112800018A	10/20/2011 20:29	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112800017A	10/08/2011 11:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112800018A	10/08/2011 08:00	Katheryne V Sponheimer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112790018A	10/07/2011 03:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112725708002	10/11/2011 15:24	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112725708002	10/11/2011 15:24	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112725708002	10/11/2011 15:24	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112725708002	10/11/2011 15:24	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112725708002	10/11/2011 15:24	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112725708002	10/11/2011 15:24	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112725708002	10/11/2011 15:24	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112725708002	10/11/2011 15:24	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112725708002	10/11/2011 15:24	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112725708002	10/11/2011 15:24	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112725708002	10/11/2011 15:24	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112725708002	10/11/2011 15:24	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112725708002	10/11/2011 15:24	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112725708002	10/11/2011 15:24	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112721026002A	09/30/2011 12:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112721026002A	09/30/2011 12:12	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-010-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422532
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 08:20

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5711 SDG#: DE257-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112721026002D	09/30/2011 12:12	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112721026002A	09/30/2011 12:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112721026002A	09/30/2011 12:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112721026002A	09/30/2011 12:12	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112721026002A	09/30/2011 12:12	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112721026002A	09/30/2011 12:12	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112721026002A	09/30/2011 12:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112721026002C	09/30/2011 12:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112721026002A	09/30/2011 12:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112721026002B	09/30/2011 12:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112721026002A	09/30/2011 12:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112721026002A	09/30/2011 12:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112721026002A	09/30/2011 12:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112721026002A	09/30/2011 12:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112725711003	09/30/2011 07:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708002	09/29/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026002	09/29/2011 22:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711003	09/30/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285285201A	10/14/2011 03:11	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11278621201A	10/07/2011 00:13	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11283243202A	10/12/2011 16:40	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285285201A	10/12/2011 07:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11278621201A	10/05/2011 07:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039401A	10/12/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 11:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162402B	10/05/2011 21:20	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-013-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422533
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 11:00

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5712 SDG#: DE257-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	500	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	500	1
04688	Benzyl alcohol	100-51-6	170	U	170	500	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	67	U	67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	67	U	67	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	500	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	500	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-013-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422533
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 11:00

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5712 SDG#: DE257-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.74	J	0.67	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	4.5		0.67	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18	1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18	1
10138	Chrysene	218-01-9	0.81	J	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7	1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18	1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	J	6.0	18	1
10138	Fluoranthene	206-44-0	1.1	J	0.67	1.7	1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7	1
10138	Naphthalene	91-20-3	0.73	J	0.67	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18	1
10138	Phenanthrene	85-01-8	0.75	J	0.67	1.7	1
10138	Pyrene	129-00-0	1.1	J	0.67	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.7	1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1	1
10401	2,4-DB	94-82-6	36	U	36	36	2
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2	1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7	1
10401	MCPA	94-74-6	160	U	160	250	1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250	1
10401	2,4,5-T	93-76-5	0.85	U	0.85	0.85	1
10401	2,4,5-TP	93-72-1	0.27		0.076	0.17	1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. Various compounds were affected.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-013-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422533
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 11:00

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5712 SDG#: DE257-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	1.7	J	0.82	3.5	1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35	1
01363	p,p-DDE	72-55-9	0.16	U	0.16	0.35	1
01363	p,p-DDT	50-29-3	0.19	U	0.19	0.35	1
01363	Delta BHC	319-86-8	0.042	U	0.042	0.17	1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.35	1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17	1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35	1
01363	Endrin	72-20-8	0.067	U	0.067	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.15	U	0.15	0.35	1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35	1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.067	U	0.067	0.35	1
01363	Toxaphene	8001-35-2	3.5	U	3.5	6.7	1

The DCB surrogate recovery is above the client specified client limits of 20-120% for the method blank and Laboratory Control Sample; however the recovery is within the in house statistical limits of 45-150%.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.9	J	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7	1
10225	PCB-1254	11097-69-1	1.2	J	0.34	1.7	1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7	1

The surrogate recovery was outside the client specified QC limits. However, the recovery is within our in house statistical limits of 53-142% for DCB. The data is reported

Metals	**SW-846 6010B**	**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,600	6.12	20.2	1
07914	Boron	7440-42-8	7.27	0.364	5.06	1
01650	Calcium	7440-70-2	3,010	2.53	20.2	1
01654	Iron	7439-89-6	21,300	2.64	20.2	1
01656	Lithium	7439-93-2	17.2	0.63	2.0	1
01657	Magnesium	7439-95-4	4,330	0.445	10.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-013-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422533
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 11:00

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5712 SDG#: DE257-12

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals		**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
06958	Manganese		7439-96-5	294		0.0364	0.506	1
10145	Phosphorus		7723-14-0	585		0.354	10.1	1
01662	Potassium		7440-09-7	3,170		11.4	50.6	1
01667	Sodium		7440-23-5	85.1	J	6.02	101	1
07968	Strontium		7440-24-6	25.1		0.0253	0.506	1
06969	Tin		7440-31-5	2.52	J	0.324	10.1	1
06970	Titanium		7440-32-6	1,200		0.0719	1.01	1
10146	Zirconium		7440-67-7	3.72	J	0.466	5.06	1
		SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony		7440-36-0	0.229		0.0742	0.200	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic		7440-38-2	5.71		0.0802	0.401	2
06126	Barium		7440-39-3	93.1		0.106	0.401	2
06127	Beryllium		7440-41-7	0.739		0.0160	0.100	2
06128	Cadmium		7440-43-9	0.240		0.0441	0.100	2
06131	Chromium		7440-47-3	37.9		0.120	0.401	2
06132	Cobalt		7440-48-4	7.23		0.0200	0.100	2
06133	Copper		7440-50-8	8.80		0.0802	0.401	2
06135	Lead		7439-92-1	14.2		0.0102	0.200	2
06138	Molybdenum		7439-98-7	0.839		0.0501	0.100	2
06139	Nickel		7440-02-0	14.0		0.100	0.401	2
06141	Selenium		7782-49-2	0.217	J	0.0581	0.401	2
06142	Silver		7440-22-4	0.0405	J	0.0142	0.100	2
06145	Thallium		7440-28-0	0.210		0.0301	0.100	2
06148	Vanadium		7440-62-2	63.5		0.0221	0.100	2
06149	Zinc		7440-66-6	61.9		0.561	3.01	2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0081	J	0.0070	0.0997	1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	0.93	J	0.81	1.0	1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	9.2	U	9.2	30.7	1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.19	U	0.19	0.97	1
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C		n.a.	5.85		0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-013-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422533
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 11:00

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5712 SDG#: DE257-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	2.2	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11283SLA026	10/15/2011 20:01	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11281SLA026	10/12/2011 22:13	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11281SLA026	10/10/2011 10:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11283SLA026	10/11/2011 10:15	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112790018A	10/08/2011 23:45	John W Perkins	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112790018A	10/11/2011 22:30	John W Perkins	2
01363	12a Pesticides by 8081A	SW-846 8081A	1	112800017A	10/13/2011 03:36	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112800018A	10/20/2011 20:48	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112800017A	10/08/2011 11:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112800018A	10/08/2011 08:00	Katheryne V Sponheimer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112790018A	10/07/2011 03:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112725708002	10/11/2011 15:28	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112725708002	10/11/2011 15:28	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112725708002	10/11/2011 15:28	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112725708002	10/11/2011 15:28	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112725708002	10/11/2011 15:28	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112725708002	10/11/2011 15:28	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112725708002	10/11/2011 15:28	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112725708002	10/11/2011 15:28	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112725708002	10/11/2011 15:28	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112725708002	10/11/2011 15:28	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112725708002	10/11/2011 15:28	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112725708002	10/11/2011 15:28	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112725708002	10/11/2011 15:28	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112725708002	10/11/2011 15:28	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112721026002A	09/30/2011 12:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112721026002A	09/30/2011 12:15	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-013-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422533
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 11:00

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5712 SDG#: DE257-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112721026002D	09/30/2011 12:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112721026002A	09/30/2011 12:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112721026002A	09/30/2011 12:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112721026002A	09/30/2011 12:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112721026002A	09/30/2011 12:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112721026002A	09/30/2011 12:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112721026002A	09/30/2011 12:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112721026002C	09/30/2011 12:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112721026002A	09/30/2011 12:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112721026002B	09/30/2011 12:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112721026002A	09/30/2011 12:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112721026002A	09/30/2011 12:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112721026002A	09/30/2011 12:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112721026002A	09/30/2011 12:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112725711003	09/30/2011 07:57	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708002	09/29/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026002	09/29/2011 22:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711003	09/30/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285285201A	10/14/2011 03:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11278621201A	10/07/2011 00:36	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243202A	10/12/2011 16:47	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285285201A	10/12/2011 07:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11278621201A	10/05/2011 07:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039401B	10/12/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 11:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162402B	10/05/2011 21:20	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422534
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 10:05

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5713 SDG#: DE257-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	67	U	67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	67	U	67	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-014-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422534
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 10:05

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5713 SDG#: DE257-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7	1
10138	Acenaphthylene	208-96-8	0.33	U	0.33	1.7	1
10138	Anthracene	120-12-7	0.33	U	0.33	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.68	J	0.67	1.7	1
10138	Benzo(a)pyrene	50-32-8	1.1	J	0.67	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	4.7		0.67	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18	1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18	1
10138	Chrysene	218-01-9	1.4	J	0.33	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7	1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18	1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	130		6.0	18	1
10138	Fluoranthene	206-44-0	1.7		0.67	1.7	1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7	1
10138	Naphthalene	91-20-3	0.80	J	0.67	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18	1
10138	Phenanthrene	85-01-8	1.0	J	0.67	1.7	1
10138	Pyrene	129-00-0	1.6	J	0.67	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1	1
10401	2,4-DB	94-82-6	18	U	18	18	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	1.0	J	0.81	1.7	1
10401	MCPA	94-74-6	77	U	77	250	1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250	1
10401	2,4,5-T	93-76-5	0.29	U	0.29	0.29	1
10401	2,4,5-TP	93-72-1	0.29		0.076	0.17	1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4,D, 2,4,5-T, and 2,4-DB.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-014-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422534
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 10:05

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5713 SDG#: DE257-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17	1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17	1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.034	U	0.034	0.17	1
01363	Chlordane	57-74-9	1.7	J	0.81	3.4	1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34	1
01363	p,p-DDE	72-55-9	0.35		0.067	0.34	1
01363	p,p-DDT	50-29-3	0.42		0.067	0.34	1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17	1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34	1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17	1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34	1
01363	Endrin	72-20-8	0.067	U	0.067	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.10	U	0.10	0.34	1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34	1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17	1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7	1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34	1
01363	Toxaphene	8001-35-2	3.7	U	3.7	6.7	1

The DCB surrogate recovery is above the client specified client limits of 20-120% for the method blank and Laboratory Control Sample; however the recovery is within the in house statistical limits of 45-150%.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	2.4	J	1.0	3.3	1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	0.92	J	0.33	1.7	1
10225	PCB-1260	11096-82-5	0.92	J	0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,200		6.02	19.9	1
07914	Boron	7440-42-8	7.05		0.358	4.98	1
01650	Calcium	7440-70-2	3,290		2.49	19.9	1
01654	Iron	7439-89-6	22,400		2.60	19.9	1
01656	Lithium	7439-93-2	18.3		0.62	2.0	1
01657	Magnesium	7439-95-4	4,840		0.438	9.95	1
06958	Manganese	7439-96-5	306		0.0358	0.498	1
10145	Phosphorus	7723-14-0	717		0.348	9.95	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-014-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422534
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 10:05

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5713 SDG#: DE257-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	2,730		11.2	49.8	1
01667	Sodium	7440-23-5	93.6	J	5.92	99.5	1
07968	Strontium	7440-24-6	26.7		0.0249	0.498	1
06969	Tin	7440-31-5	2.71	J	0.319	9.95	1
06970	Titanium	7440-32-6	1,210		0.0707	0.995	1
10146	Zirconium	7440-67-7	2.65	J	0.458	4.98	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.242		0.0744	0.201	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.58		0.0804	0.402	2
06126	Barium	7440-39-3	76.9		0.107	0.402	2
06127	Beryllium	7440-41-7	0.584		0.0161	0.101	2
06128	Cadmium	7440-43-9	0.210		0.0442	0.101	2
06131	Chromium	7440-47-3	31.3		0.121	0.402	2
06132	Cobalt	7440-48-4	5.97		0.0201	0.101	2
06133	Copper	7440-50-8	7.35		0.0804	0.402	2
06135	Lead	7439-92-1	11.9		0.0103	0.201	2
06138	Molybdenum	7439-98-7	0.685		0.0503	0.101	2
06139	Nickel	7440-02-0	11.6		0.101	0.402	2
06141	Selenium	7782-49-2	0.216	J	0.0583	0.402	2
06142	Silver	7440-22-4	0.0258	J	0.0143	0.101	2
06145	Thallium	7440-28-0	0.186		0.0302	0.101	2
06148	Vanadium	7440-62-2	53.2		0.0221	0.101	2
06149	Zinc	7440-66-6	51.4		0.563	3.02	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0114	J	0.0071	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.80	U	0.80	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.53	J	0.20	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	5.66		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	1.5		0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-014-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422534
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 10:05

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5713 SDG#: DE257-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11283SLA026	10/15/2011 20:26	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11281SLA026	10/12/2011 22:45	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11281SLA026	10/10/2011 10:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11283SLA026	10/11/2011 10:15	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112790018A	10/09/2011 00:13	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112800017A	10/12/2011 22:55	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112800018A	10/20/2011 21:07	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112800017A	10/08/2011 11:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112800018A	10/08/2011 08:00	Katheryne V Sponheimer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112790018A	10/07/2011 03:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112725708002	10/11/2011 15:32	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112725708002	10/11/2011 15:32	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112725708002	10/11/2011 15:32	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112725708002	10/11/2011 15:32	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112725708002	10/11/2011 15:32	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112725708002	10/11/2011 15:32	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112725708002	10/11/2011 15:32	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112725708002	10/11/2011 15:32	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112725708002	10/11/2011 15:32	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112725708002	10/11/2011 15:32	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112725708002	10/11/2011 15:32	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112725708002	10/11/2011 15:32	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112725708002	10/11/2011 15:32	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112725708002	10/11/2011 15:32	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112721026002A	09/30/2011 12:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112721026002A	09/30/2011 12:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112721026002D	09/30/2011 12:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112721026002A	09/30/2011 12:18	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-014-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422534
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 10:05

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5713 SDG#: DE257-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112721026002A	09/30/2011 12:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112721026002A	09/30/2011 12:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112721026002A	09/30/2011 12:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112721026002A	09/30/2011 12:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112721026002A	09/30/2011 12:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112721026002C	09/30/2011 12:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112721026002A	09/30/2011 12:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112721026002B	09/30/2011 12:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112721026002A	09/30/2011 12:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112721026002A	09/30/2011 12:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112721026002A	09/30/2011 12:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112721026002A	09/30/2011 12:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112725711003	09/30/2011 07:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708002	09/29/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026002	09/29/2011 22:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711003	09/30/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285285201B	10/14/2011 04:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11278621201B	10/07/2011 02:31	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243202A	10/12/2011 17:07	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285285201B	10/12/2011 07:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11278621201B	10/05/2011 07:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039401B	10/12/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 11:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162402B	10/05/2011 21:20	Scott W Freisher	1

Sample Description: SL-015-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422535
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 10:45

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5714 SDG#: DE257-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	68	U	68	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	68	U	68	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-015-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422535
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 10:45

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5714 SDG#: DE257-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.88	J	0.67	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	4.2		0.67	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.67	U	0.67	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18	1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18	1
10138	Chrysene	218-01-9	1.2	J	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7	1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18	1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	15	J	6.1	18	1
10138	Fluoranthene	206-44-0	1.5	J	0.67	1.7	1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7	1
10138	Naphthalene	91-20-3	0.69	J	0.67	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18	1
10138	Phenanthrene	85-01-8	1.0	J	0.67	1.7	1
10138	Pyrene	129-00-0	1.5	J	0.67	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2	1
10401	2,4-DB	94-82-6	14	U	14	14	1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2	1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7	1
10401	MCPA	94-74-6	78	U	78	260	1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260	1
10401	2,4,5-T	93-76-5	0.48	U	0.48	0.48	1
10401	2,4,5-TP	93-72-1	0.14	U	0.14	0.17	1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4,5-TP, 2,4,5-T, and 2,4-DB.

Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-015-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422535
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 10:45

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5714 SDG#: DE257-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.2	U	2.2	5.1	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	1.8	J	0.82	3.5	1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35	1
01363	p,p-DDE	72-55-9	0.24	J	0.068	0.35	1
01363	p,p-DDT	50-29-3	0.31	J	0.068	0.35	1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17	1
01363	Dieldrin	60-57-1	0.068	U	0.068	0.35	1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17	1
01363	Endosulfan II	33213-65-9	0.068	U	0.068	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35	1
01363	Endrin	72-20-8	0.068	U	0.068	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.095	U	0.095	0.35	1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35	1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.068	U	0.068	0.35	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.8	1

The DCB surrogate recovery is above the client specified client limits of 20-120% for the method blank and Laboratory Control Sample; however the recovery is within the in house statistical limits of 45-150%.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.5	J	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7	1
10225	PCB-1254	11097-69-1	3.5		0.34	1.7	1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7	1

The surrogate recovery was outside the client specified QC limits. However, the recovery is within our in house statistical limits of 53-142% for DCB. The data is reported

Metals	**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,700		5.97	19.7	1
07914	Boron	7440-42-8	7.07		0.355	4.94	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-015-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422535
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 10:45

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5714 SDG#: DE257-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	3,290		2.47	19.7	1
01654	Iron	7439-89-6	22,500		2.58	19.7	1
01656	Lithium	7439-93-2	17.6		0.61	2.0	1
01657	Magnesium	7439-95-4	4,560		0.434	9.87	1
06958	Manganese	7439-96-5	273		0.0355	0.494	1
10145	Phosphorus	7723-14-0	643		0.346	9.87	1
01662	Potassium	7440-09-7	3,100		11.2	49.4	1
01667	Sodium	7440-23-5	84.7	J	5.87	98.7	1
07968	Strontium	7440-24-6	25.2		0.0247	0.494	1
06969	Tin	7440-31-5	2.74	J	0.316	9.87	1
06970	Titanium	7440-32-6	1,220		0.0701	0.987	1
10146	Zirconium	7440-67-7	5.38		0.454	4.94	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.305		0.0731	0.197	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.25		0.0790	0.395	2
06126	Barium	7440-39-3	101		0.105	0.395	2
06127	Beryllium	7440-41-7	0.732		0.0158	0.0987	2
06128	Cadmium	7440-43-9	0.279		0.0434	0.0987	2
06131	Chromium	7440-47-3	39.8		0.118	0.395	2
06132	Cobalt	7440-48-4	8.50		0.0197	0.0987	2
06133	Copper	7440-50-8	9.03		0.0790	0.395	2
06135	Lead	7439-92-1	11.6		0.0101	0.197	2
06138	Molybdenum	7439-98-7	0.779		0.0494	0.0987	2
06139	Nickel	7440-02-0	15.5		0.0987	0.395	2
06141	Selenium	7782-49-2	0.241	J	0.0573	0.395	2
06142	Silver	7440-22-4	0.0297	J	0.0140	0.0987	2
06145	Thallium	7440-28-0	0.233		0.0296	0.0987	2
06148	Vanadium	7440-62-2	71.2		0.0217	0.0987	2
06149	Zinc	7440-66-6	65.7		0.553	2.96	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0472	J	0.0070	0.0991	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.0		0.21	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-015-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422535
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 10:45

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5714 SDG#: DE257-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	6.10	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	2.6	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11283SLA026	10/15/2011 15:03	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11281SLA026	10/12/2011 23:17	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11281SLA026	10/10/2011 10:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11283SLA026	10/11/2011 10:15	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112790018A	10/09/2011 00:40	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112770016A	10/05/2011 19:53	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112800017A	10/12/2011 23:10	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112800018A	10/20/2011 21:26	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112800017A	10/08/2011 11:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112800018A	10/08/2011 08:00	Katheryne V Sponheimer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112790018A	10/07/2011 03:00	Kerrie A Freeburn	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112770016A	10/05/2011 09:00	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	112725708002	10/11/2011 15:44	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112725708002	10/11/2011 15:44	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112725708002	10/11/2011 15:44	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112725708002	10/11/2011 15:44	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112725708002	10/11/2011 15:44	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112725708002	10/11/2011 15:44	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112725708002	10/11/2011 15:44	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112725708002	10/11/2011 15:44	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112725708002	10/11/2011 15:44	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-015-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422535
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 10:45

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5714 SDG#: DE257-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01667	Sodium	SW-846 6010B	1	112725708002	10/11/2011 15:44	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112725708002	10/11/2011 15:44	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112725708002	10/11/2011 15:44	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112725708002	10/11/2011 15:44	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112725708002	10/11/2011 15:44	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112721026002A	09/30/2011 12:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112721026002A	09/30/2011 12:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112721026002D	09/30/2011 12:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112721026002A	09/30/2011 12:21	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112721026002A	09/30/2011 12:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112721026002A	09/30/2011 12:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112721026002A	09/30/2011 12:21	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112721026002A	09/30/2011 12:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112721026002A	09/30/2011 12:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112721026002C	09/30/2011 12:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112721026002A	09/30/2011 12:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112721026002B	09/30/2011 12:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112721026002A	09/30/2011 12:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112721026002A	09/30/2011 12:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112721026002A	09/30/2011 12:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112721026002A	09/30/2011 12:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112725711003	09/30/2011 07:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708002	09/29/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026002	09/29/2011 22:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711003	09/30/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285285201B	10/14/2011 04:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11278621201B	10/07/2011 02:54	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11283243202A	10/12/2011 17:21	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285285201B	10/12/2011 07:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11278621201B	10/05/2011 07:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039401B	10/12/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 11:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162402B	10/05/2011 21:20	Scott W Freisher	1

Sample Description: **SL-016-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422536
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 09:15

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5715 SDG#: DE257-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	70	U	70	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	70	U	70	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-016-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422536
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 09:15

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5715 SDG#: DE257-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.85	J	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	5.9		0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	1.2	J	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	10	J	6.2	19	1
10138	Fluoranthene	206-44-0	1.4	J	0.69	1.7	1
10138	Fluorene	86-73-7	0.81	J	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.75	J	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	1.1	J	0.69	1.7	1
10138	Pyrene	129-00-0	1.3	J	0.69	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4	1
10401	2,4-DB	94-82-6	8.9	U	8.9	8.9	1
10401	Dicamba	1918-00-9	0.97	U	0.97	1.3	1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8	1
10401	MCPA	94-74-6	150	U	150	260	1
10401	MCPP (Mecoprop)	93-65-2	79	U	79	260	1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18	1
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18	1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: dicamba, MCPA and 2,4-DB.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-016-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422536
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 09:15

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5715 SDG#: DE257-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.076	J	0.036	0.17	1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.17	1
01363	Chlordane	57-74-9	2.5	J	0.84	3.6	1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.36	1
01363	p,p-DDE	72-55-9	0.41	U	0.41	0.41	1
01363	p,p-DDT	50-29-3	0.59		0.069	0.36	1
01363	Delta BHC	319-86-8	0.047	U	0.047	0.17	1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.36	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.36	1
01363	Endrin	72-20-8	0.069	U	0.069	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.16	U	0.16	0.36	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.36	1
01363	Heptachlor	76-44-8	0.077	J	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.064	U	0.064	0.17	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7	1
01363	Mirex	2385-85-5	0.15	U	0.15	0.36	1
01363	Toxaphene	8001-35-2	4.3	U	4.3	6.9	1

The DCB surrogate recovery is above the client specified client limits of 20-120% for the method blank and Laboratory Control Sample; however the recovery is within the in house statistical limits of 45-150%.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5	1
10225	Aroclor 5460	11126-42-4	2.9	J	1.0	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	2.2		0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

The surrogate recovery was outside the client specified QC limits. However, the recovery is within our in house statistical limits of 53-142% for DCB. The data is reported

Metals	**SW-846 6010B**	**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,600	6.24	20.6	1
07914	Boron	7440-42-8	7.67	0.371	5.15	1
01650	Calcium	7440-70-2	3,460	2.58	20.6	1
01654	Iron	7439-89-6	22,400	2.69	20.6	1
01656	Lithium	7439-93-2	17.0	0.64	2.1	1
01657	Magnesium	7439-95-4	4,630	0.454	10.3	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-016-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422536
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 09:15

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5715 SDG#: DE257-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	309		0.0371	0.515	1
10145	Phosphorus	7723-14-0	642		0.361	10.3	1
01662	Potassium	7440-09-7	3,510		11.6	51.5	1
01667	Sodium	7440-23-5	80.5	J	6.13	103	1
07968	Strontium	7440-24-6	27.1		0.0258	0.515	1
06969	Tin	7440-31-5	2.71	J	0.330	10.3	1
06970	Titanium	7440-32-6	1,220		0.0732	1.03	1
10146	Zirconium	7440-67-7	4.97	J	0.474	5.15	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.287		0.0770	0.208	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.99		0.0833	0.416	2
06126	Barium	7440-39-3	104		0.110	0.416	2
06127	Beryllium	7440-41-7	0.768		0.0167	0.104	2
06128	Cadmium	7440-43-9	0.286		0.0458	0.104	2
06131	Chromium	7440-47-3	38.1		0.125	0.416	2
06132	Cobalt	7440-48-4	8.95		0.0208	0.104	2
06133	Copper	7440-50-8	9.83		0.0833	0.416	2
06135	Lead	7439-92-1	13.3		0.0106	0.208	2
06138	Molybdenum	7439-98-7	0.726		0.0521	0.104	2
06139	Nickel	7440-02-0	15.7		0.104	0.416	2
06141	Selenium	7782-49-2	0.220	J	0.0604	0.416	2
06142	Silver	7440-22-4	0.0328	J	0.0148	0.104	2
06145	Thallium	7440-28-0	0.245		0.0312	0.104	2
06148	Vanadium	7440-62-2	66.9		0.0229	0.104	2
06149	Zinc	7440-66-6	65.4		0.583	3.12	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0072	U	0.0072	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.83	U	0.83	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	683		9.5	31.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.73	J	0.19	0.97	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	5.87		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-016-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422536
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 09:15

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5715 SDG#: DE257-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	4.9	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11283SLA026	10/15/2011 15:27	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11281SLA026	10/12/2011 23:50	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11281SLA026	10/10/2011 10:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11283SLA026	10/11/2011 10:15	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112790018A	10/09/2011 01:08	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112800017A	10/13/2011 03:51	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112800018A	10/20/2011 21:44	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112800017A	10/08/2011 11:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112800018A	10/08/2011 08:00	Katheryne V Sponheimer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112790018A	10/07/2011 03:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112725708002	10/11/2011 15:48	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112725708002	10/11/2011 15:48	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112725708002	10/11/2011 15:48	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112725708002	10/11/2011 15:48	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112725708002	10/11/2011 15:48	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112725708002	10/11/2011 15:48	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112725708002	10/11/2011 15:48	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112725708002	10/11/2011 15:48	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112725708002	10/11/2011 15:48	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112725708002	10/11/2011 15:48	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112725708002	10/11/2011 15:48	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112725708002	10/11/2011 15:48	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112725708002	10/11/2011 15:48	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112725708002	10/11/2011 15:48	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112721026002A	09/30/2011 12:30	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112721026002A	09/30/2011 12:30	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112721026002D	09/30/2011 12:30	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-016-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422536
LLI Group # 1268901
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 09:15

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5715 SDG#: DE257-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	112721026002A	09/30/2011 12:30	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112721026002A	09/30/2011 12:30	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112721026002A	09/30/2011 12:30	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112721026002A	09/30/2011 12:30	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112721026002A	09/30/2011 12:30	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112721026002A	09/30/2011 12:30	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112721026002C	09/30/2011 12:30	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112721026002A	09/30/2011 12:30	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112721026002B	09/30/2011 12:30	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112721026002A	09/30/2011 12:30	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112721026002A	09/30/2011 12:30	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112721026002A	09/30/2011 12:30	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112721026002A	09/30/2011 12:30	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112725711003	09/30/2011 08:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708002	09/29/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026002	09/29/2011 22:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711003	09/30/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285285201B	10/14/2011 05:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11278621201B	10/07/2011 12:38	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11283243202A	10/12/2011 17:34	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285285201B	10/12/2011 07:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11278621201B	10/05/2011 07:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039401B	10/12/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 11:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162402B	10/05/2011 21:20	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422537
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 08:35

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5716 SDG#: DE257-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	68	U	68	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	68	U	68	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-017-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422537
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 08:35

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5716 SDG#: DE257-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7	1
10138	Acenaphthylene	208-96-8	0.33	U	0.33	1.7	1
10138	Anthracene	120-12-7	0.33	U	0.33	1.7	1
10138	Benzo(a)anthracene	56-55-3	1.1	J	0.67	1.7	1
10138	Benzo(a)pyrene	50-32-8	2.3		0.67	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	13		0.67	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.68	J	0.67	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7	1
10138	Butylbenzylphthalate	85-68-7	48		6.0	18	1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18	1
10138	Chrysene	218-01-9	3.5		0.33	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	1.0	J	0.67	1.7	1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18	1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	15	J	6.0	18	1
10138	Fluoranthene	206-44-0	3.6		0.67	1.7	1
10138	Fluorene	86-73-7	1.3	J	0.67	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	J	0.67	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7	1
10138	Naphthalene	91-20-3	0.95	J	0.67	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18	1
10138	Phenanthrene	85-01-8	1.4	J	0.67	1.7	1
10138	Pyrene	129-00-0	3.1		0.67	1.7	1

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6	1
10401	Dalapon	75-99-0	4.5	U	4.5	9.1	1
10401	2,4-DB	94-82-6	8.6	U	8.6	8.6	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7	1
10401	MCPA	94-74-6	79	U	79	250	1
10401	MCPP (Mecoprop)	93-65-2	130	U	130	250	1
10401	2,4,5-T	93-76-5	0.17	U	0.17	0.17	1
10401	2,4,5-TP	93-72-1	0.085	U	0.085	0.17	1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. Various

Sample Description: **SL-017-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422537
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 08:35

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5716 SDG#: DE257-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	compounds were affected.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	4.4		0.81	3.5	1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35	1
01363	p,p-DDE	72-55-9	2.2		0.067	0.35	1
01363	p,p-DDT	50-29-3	2.9		0.067	0.35	1
01363	Delta BHC	319-86-8	0.048	U	0.048	0.17	1
01363	Dieldrin	60-57-1	0.23	U	0.23	0.35	1
01363	Endosulfan I	959-98-8	0.071	U	0.071	0.17	1
01363	Endosulfan II	33213-65-9	0.26	U	0.26	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.35	1
01363	Endrin	72-20-8	0.13	U	0.13	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.99		0.067	0.35	1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.35	1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.081	U	0.081	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.26	U	0.26	0.35	1
01363	Toxaphene	8001-35-2	18	U	18	18	1
	The DCB surrogate recovery is above the client specified client limits of 20-120% for the method blank and Laboratory Control Sample; however the recovery is within the in house statistical limits of 45-150%. The TCX surrogate recovery is below the client specified client limits of 50-130% for this sample; however the recovery is within the in house limits of 28-121%. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	5.9		1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7	1
10225	PCB-1260	11096-82-5	9.3		0.40	1.7	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7	1
	The surrogate recovery was outside the client specified QC limits. However, the recovery is within our in house statistical limits of 53-142% for DCB. The data is reported						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,600		6.03	19.9	1
07914	Boron	7440-42-8	8.34		0.359	4.99	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-017-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422537
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 08:35

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5716 SDG#: DE257-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	4,170		2.49	19.9	1
01654	Iron	7439-89-6	22,300		2.60	19.9	1
01656	Lithium	7439-93-2	17.2		0.62	2.0	1
01657	Magnesium	7439-95-4	4,760		0.439	9.97	1
06958	Manganese	7439-96-5	273		0.0359	0.499	1
10145	Phosphorus	7723-14-0	706		0.349	9.97	1
01662	Potassium	7440-09-7	2,390		11.3	49.9	1
01667	Sodium	7440-23-5	97.7	J	5.93	99.7	1
07968	Strontium	7440-24-6	30.7		0.0249	0.499	1
06969	Tin	7440-31-5	2.83	J	0.319	9.97	1
06970	Titanium	7440-32-6	1,140		0.0708	0.997	1
10146	Zirconium	7440-67-7	6.10		0.459	4.99	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.328		0.0745	0.201	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.84		0.0806	0.403	2
06126	Barium	7440-39-3	104		0.107	0.403	2
06127	Beryllium	7440-41-7	0.812		0.0161	0.101	2
06128	Cadmium	7440-43-9	0.338		0.0443	0.101	2
06131	Chromium	7440-47-3	43.4		0.121	0.403	2
06132	Cobalt	7440-48-4	10.6		0.0201	0.101	2
06133	Copper	7440-50-8	10.5		0.0806	0.403	2
06135	Lead	7439-92-1	30.0		0.0103	0.201	2
06138	Molybdenum	7439-98-7	0.808		0.0504	0.101	2
06139	Nickel	7440-02-0	17.8		0.101	0.403	2
06141	Selenium	7782-49-2	0.253	J	0.0584	0.403	2
06142	Silver	7440-22-4	0.0461	J	0.0143	0.101	2
06145	Thallium	7440-28-0	0.245		0.0302	0.101	2
06148	Vanadium	7440-62-2	78.8		0.0222	0.101	2
06149	Zinc	7440-66-6	80.0		0.564	3.02	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0238	J	0.0069	0.0978	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.81	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.4		0.20	0.99	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-017-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422537
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E5716 SDG#: DE257-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	6.27	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	1.7	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11283SLA026	10/15/2011 15:52	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11281SLA026	10/13/2011 00:22	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11281SLA026	10/10/2011 10:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11283SLA026	10/11/2011 10:15	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112790018A	10/09/2011 01:35	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112800017A	10/13/2011 02:52	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112800018A	10/20/2011 22:03	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112800017A	10/08/2011 11:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112800018A	10/08/2011 08:00	Katheryne V Sponheimer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112790018A	10/07/2011 03:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112725708002	10/11/2011 15:52	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112725708002	10/11/2011 15:52	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112725708002	10/11/2011 15:52	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112725708002	10/11/2011 15:52	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112725708002	10/11/2011 15:52	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112725708002	10/11/2011 15:52	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112725708002	10/11/2011 15:52	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112725708002	10/11/2011 15:52	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112725708002	10/11/2011 15:52	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112725708002	10/11/2011 15:52	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112725708002	10/11/2011 15:52	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112725708002	10/11/2011 15:52	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112725708002	10/11/2011 15:52	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422537
LLI Group # 1268901
Account # 13013

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5716 SDG#: DE257-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	112725708002	10/11/2011 15:52	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112721026002A	09/30/2011 12:34	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112721026002A	09/30/2011 12:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112721026002D	09/30/2011 12:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112721026002A	09/30/2011 12:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112721026002A	09/30/2011 12:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112721026002A	09/30/2011 12:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112721026002A	09/30/2011 12:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112721026002A	09/30/2011 12:34	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112721026002A	09/30/2011 12:34	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112721026002C	09/30/2011 12:34	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112721026002A	09/30/2011 12:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112721026002B	09/30/2011 12:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112721026002A	09/30/2011 12:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112721026002A	09/30/2011 12:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112721026002A	09/30/2011 12:34	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112721026002A	09/30/2011 12:34	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112725711003	09/30/2011 08:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708002	09/29/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026002	09/29/2011 22:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711003	09/30/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285285201B	10/14/2011 05:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11278621201B	10/07/2011 03:41	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11283243202A	10/12/2011 17:48	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285285201B	10/12/2011 07:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11278621201B	10/05/2011 07:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039401B	10/12/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 11:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162402B	10/05/2011 21:20	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-033-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422538
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:25

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5717 SDG#: DE257-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	70	U	70	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	70	U	70	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-033-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422538
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:25

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Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

E5717 SDG#: DE257-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.96	J	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.4	J	6.2	19	1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4	1
10401	2,4-DB	94-82-6	0.64	U	0.64	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.2	1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8	1
10401	MCPA	94-74-6	79	U	79	260	1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260	1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18	1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	0.83	U	0.83	3.5	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-033-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422538
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:25

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5717 SDG#: DE257-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.35	1
01363	p,p-DDE	72-55-9	0.069	U	0.069	0.35	1
01363	p,p-DDT	50-29-3	0.069	U	0.069	0.35	1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17	1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.35	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.35	1
01363	Endrin	72-20-8	0.069	U	0.069	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.069	U	0.069	0.35	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.35	1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.069	U	0.069	0.35	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9	1

The DCB surrogate recovery is above the client specified client limits of 20-120% for the method blank and Laboratory Control Sample; however the recovery is within the in house statistical limits of 45-150%.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	2.6		0.34	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1

The surrogate recovery was outside the client specified QC limits. However, the recovery is within our in house statistical limits of 53-142% for DCB. The data is reported

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,500		6.27	20.7	1
07914	Boron	7440-42-8	13.0		0.373	5.18	1
01650	Calcium	7440-70-2	29,800		2.59	20.7	1
01654	Iron	7439-89-6	34,900		5.41	41.5	2
01656	Lithium	7439-93-2	31.2		0.64	2.1	1
01657	Magnesium	7439-95-4	8,030		0.456	10.4	1
06958	Manganese	7439-96-5	344		0.0373	0.518	1
10145	Phosphorus	7723-14-0	437		0.363	10.4	1
01662	Potassium	7440-09-7	4,150		11.7	51.8	1
01667	Sodium	7440-23-5	109		6.17	104	1
07968	Strontium	7440-24-6	65.3		0.0259	0.518	1
06969	Tin	7440-31-5	2.66	J	0.332	10.4	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-033-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422538
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E5717 SDG#: DE257-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
06970	Titanium	7440-32-6	1,380		0.0736	1.04	1
10146	Zirconium	7440-67-7	3.67	J	0.477	5.18	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.340		0.0760	0.205	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.25		0.0821	0.411	2
06126	Barium	7440-39-3	130		0.272	1.03	5
06127	Beryllium	7440-41-7	1.13		0.0164	0.103	2
06128	Cadmium	7440-43-9	0.304		0.0452	0.103	2
06131	Chromium	7440-47-3	42.4		0.123	0.411	2
06132	Cobalt	7440-48-4	15.0		0.0205	0.103	2
06133	Copper	7440-50-8	20.5		0.0821	0.411	2
06135	Lead	7439-92-1	12.4		0.0105	0.205	2
06138	Molybdenum	7439-98-7	0.646		0.0513	0.103	2
06139	Nickel	7440-02-0	28.7		0.103	0.411	2
06141	Selenium	7782-49-2	0.194	J	0.0595	0.411	2
06142	Silver	7440-22-4	0.0371	J	0.0146	0.103	2
06145	Thallium	7440-28-0	0.448		0.0308	0.103	2
06148	Vanadium	7440-62-2	84.7		0.0226	0.103	2
06149	Zinc	7440-66-6	97.6		0.575	3.08	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	U	0.0071	0.100	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1		0.83	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.59		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.5		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-033-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422538
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14420 Albemarle Point Place
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E5717 SDG#: DE257-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11283SLA026	10/15/2011 16:17	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11281SLA026	10/13/2011 00:54	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11281SLA026	10/10/2011 10:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11283SLA026	10/11/2011 10:15	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112790018A	10/09/2011 02:02	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112800017A	10/12/2011 23:25	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112800018A	10/20/2011 22:22	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112800017A	10/08/2011 11:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112800018A	10/08/2011 08:00	Katheryne V Sponheimer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112790018A	10/07/2011 03:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112725708002	10/11/2011 15:56	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112725708002	10/11/2011 15:56	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112725708002	10/11/2011 15:56	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112725708002	10/12/2011 04:54	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	112725708002	10/11/2011 15:56	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112725708002	10/11/2011 15:56	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112725708002	10/11/2011 15:56	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112725708002	10/11/2011 15:56	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112725708002	10/11/2011 15:56	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112725708002	10/11/2011 15:56	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112725708002	10/11/2011 15:56	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112725708002	10/11/2011 15:56	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112725708002	10/11/2011 15:56	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112725708002	10/11/2011 15:56	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112721026002A	09/30/2011 12:37	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112721026002A	09/30/2011 12:37	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112721026002D	09/30/2011 12:49	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	112721026002A	09/30/2011 12:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112721026002A	09/30/2011 12:37	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112721026002A	09/30/2011 12:37	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112721026002A	09/30/2011 12:37	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112721026002A	09/30/2011 12:37	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112721026002A	09/30/2011 12:37	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112721026002C	09/30/2011 12:37	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112721026002A	09/30/2011 12:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112721026002B	09/30/2011 12:37	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112721026002A	09/30/2011 12:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112721026002A	09/30/2011 12:37	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-033-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422538
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:25

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5717 SDG#: DE257-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	112721026002A	09/30/2011 12:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112721026002A	09/30/2011 12:37	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112725711003	09/30/2011 08:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708002	09/29/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026002	09/29/2011 22:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711003	09/30/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285285201B	10/14/2011 05:25	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11278621201B	10/07/2011 04:04	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243202A	10/12/2011 17:54	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285285201B	10/12/2011 07:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11278621201B	10/05/2011 07:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039401B	10/12/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 11:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162402B	10/05/2011 21:20	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-034-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422539
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:45

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5718 SDG#: DE257-18BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-034-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422539
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:45

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5718 SDG#: DE257-18BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.68	U	0.68	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.68	U	0.68	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	1.0	J	0.68	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.68	U	0.68	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.68	U	0.68	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18	1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18	1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7	1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18	1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.1	U	6.1	18	1
10138	Fluoranthene	206-44-0	0.68	U	0.68	1.7	1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7	1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18	1
10138	Phenanthrene	85-01-8	0.68	U	0.68	1.7	1
10138	Pyrene	129-00-0	0.68	U	0.68	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.3	1
10401	2,4-DB	94-82-6	3.5	U	3.5	3.5	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.2	1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8	1
10401	MCPA	94-74-6	79	U	79	260	1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260	1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18	1
10401	2,4,5-TP	93-72-1	0.44		0.078	0.18	1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-034-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422539
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:45

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5718 SDG#: DE257-18BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.038	J	0.035	0.17	1
01363	Chlordane	57-74-9	0.90	J	0.83	3.5	1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.35	1
01363	p,p-DDE	72-55-9	0.10	J	0.069	0.35	1
01363	p,p-DDT	50-29-3	0.22	J	0.069	0.35	1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17	1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.35	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.35	1
01363	Endrin	72-20-8	0.069	U	0.069	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.069	U	0.069	0.35	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.35	1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.069	U	0.069	0.35	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9	1

The DCB surrogate recovery is above the client specified client limits of 20-120% for the method blank and Laboratory Control Sample; however the recovery is within the in house statistical limits of 45-150%.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1

Metals	**SW-846 6010B**	**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	31,900	6.24	20.6	1
07914	Boron	7440-42-8	15.5	0.371	5.16	1
01650	Calcium	7440-70-2	9,210	2.58	20.6	1
01654	Iron	7439-89-6	37,400	5.38	41.3	2
01656	Lithium	7439-93-2	31.6	0.64	2.1	1
01657	Magnesium	7439-95-4	8,840	0.454	10.3	1
06958	Manganese	7439-96-5	370	0.0371	0.516	1
10145	Phosphorus	7723-14-0	511	0.361	10.3	1
01662	Potassium	7440-09-7	4,980	11.7	51.6	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-034-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422539
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:45

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5718 SDG#: DE257-18BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01667	Sodium	7440-23-5	100	J	6.14	103	1
07968	Strontium	7440-24-6	40.3		0.0258	0.516	1
06969	Tin	7440-31-5	2.95	J	0.330	10.3	1
06970	Titanium	7440-32-6	1,540		0.0732	1.03	1
10146	Zirconium	7440-67-7	4.78	J	0.474	5.16	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.392		0.0763	0.206	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.40		0.0825	0.413	2
06126	Barium	7440-39-3	182		0.109	0.413	2
06127	Beryllium	7440-41-7	1.16		0.0165	0.103	2
06128	Cadmium	7440-43-9	0.304		0.0454	0.103	2
06131	Chromium	7440-47-3	40.0		0.124	0.413	2
06132	Cobalt	7440-48-4	13.9		0.0206	0.103	2
06133	Copper	7440-50-8	21.6		0.0825	0.413	2
06135	Lead	7439-92-1	12.4		0.0105	0.206	2
06138	Molybdenum	7439-98-7	0.548		0.0516	0.103	2
06139	Nickel	7440-02-0	27.8		0.103	0.413	2
06141	Selenium	7782-49-2	0.272	J	0.0598	0.413	2
06142	Silver	7440-22-4	0.0485	J	0.0146	0.103	2
06145	Thallium	7440-28-0	0.432		0.0309	0.103	2
06148	Vanadium	7440-62-2	79.0		0.0227	0.103	2
06149	Zinc	7440-66-6	102		0.578	3.09	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0072	U	0.0072	0.103	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4		0.82	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.61		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.0		0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-034-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422539
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:45

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5718 SDG#: DE257-18BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11283SLA026	10/15/2011 16:42	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11281SLA026	10/12/2011 15:45	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11281SLA026	10/10/2011 10:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11283SLA026	10/11/2011 10:15	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112790018A	10/09/2011 03:25	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112800017A	10/12/2011 23:39	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112800018A	10/20/2011 22:41	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112800017A	10/08/2011 11:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112800018A	10/08/2011 08:00	Katheryne V Sponheimer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112790018A	10/07/2011 03:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112725708002	10/11/2011 14:18	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112725708002	10/11/2011 14:18	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112725708002	10/11/2011 14:18	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112725708002	10/12/2011 04:30	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	112725708002	10/11/2011 14:18	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112725708002	10/11/2011 14:18	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112725708002	10/11/2011 14:18	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112725708002	10/11/2011 14:18	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112725708002	10/11/2011 14:18	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112725708002	10/11/2011 14:18	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112725708002	10/11/2011 14:18	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112725708002	10/11/2011 14:18	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112725708002	10/11/2011 14:18	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112725708002	10/11/2011 14:18	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112721026002A	09/30/2011 11:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112721026002A	09/30/2011 11:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112721026002D	09/30/2011 11:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112721026002A	09/30/2011 11:22	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-034-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422539
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:45

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5718 SDG#: DE257-18BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112721026002A	09/30/2011 11:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112721026002A	09/30/2011 11:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112721026002A	09/30/2011 11:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112721026002A	09/30/2011 11:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112721026002A	09/30/2011 11:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112721026002C	09/30/2011 11:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112721026002A	09/30/2011 11:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112721026002B	09/30/2011 11:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112721026002A	09/30/2011 11:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112721026002A	09/30/2011 11:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112721026002A	09/30/2011 11:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112721026002A	09/30/2011 11:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112725711003	09/30/2011 08:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708002	09/29/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026002	09/29/2011 22:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711003	09/30/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285285201B	10/14/2011 03:35	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11278621201B	10/07/2011 00:59	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243202A	10/12/2011 18:08	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285285201B	10/12/2011 07:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11278621201B	10/05/2011 07:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039401B	10/12/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 11:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162402B	10/05/2011 21:20	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-034-SA5DS-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422540
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:45

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5718 SDG#: DE257-18MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600		17	170	1
04688	Acenaphthylene	208-96-8	1,800		17	170	1
04688	Aniline	62-53-3	1,100		170	520	1
04688	Anthracene	120-12-7	1,700		17	170	1
04688	Benzidine	92-87-5	1,300	J	1,200	3,500	1
04688	Benzo(a)anthracene	56-55-3	1,600		17	170	1
04688	Benzo(a)pyrene	50-32-8	1,800		17	170	1
04688	Benzo(b)fluoranthene	205-99-2	2,000		17	170	1
04688	Benzo(g,h,i)perylene	191-24-2	1,700		17	170	1
04688	Benzo(k)fluoranthene	207-08-9	1,600		17	170	1
04688	Benzoic acid	65-85-0	460	J	170	520	1
04688	Benzyl alcohol	100-51-6	1,700		170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	1,700		17	170	1
04688	Butylbenzylphthalate	85-68-7	1,700		17	170	1
04688	Di-n-butylphthalate	84-74-2	1,700		17	170	1
04688	Carbazole	86-74-8	1,600		17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		35	170	1
04688	4-Chloroaniline	106-47-8	930		69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,600		17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600		17	170	1
04688	2-Chloronaphthalene	91-58-7	1,200		17	170	1
04688	2-Chlorophenol	95-57-8	1,700		17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		35	170	1
04688	Chrysene	218-01-9	1,400		17	170	1
04688	Dibenz(a,h)anthracene	53-70-3	1,800		17	170	1
04688	Dibenzofuran	132-64-9	1,600		17	170	1
04688	1,2-Dichlorobenzene	95-50-1	1,500		17	170	1
04688	1,3-Dichlorobenzene	541-73-1	1,500		17	170	1
04688	1,4-Dichlorobenzene	106-46-7	1,500		17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	810		100	350	1
04688	2,4-Dichlorophenol	120-83-2	1,700		17	170	1
04688	Diethylphthalate	84-66-2	1,700		17	170	1
04688	2,4-Dimethylphenol	105-67-9	1,700		35	170	1
04688	3,5-Dimethylphenol	108-68-9	1,900		35	170	1
04688	Dimethylphthalate	131-11-3	1,700		17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	930		170	520	1
04688	2,4-Dinitrophenol	51-28-5	960	J	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	1,700		35	170	1
04688	2,6-Dinitrotoluene	606-20-2	1,800		17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	1,700		17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700		17	350	1
04688	Fluoranthene	206-44-0	1,700		17	170	1
04688	Fluorene	86-73-7	1,700		17	170	1
04688	Hexachlorobenzene	118-74-1	1,700		17	170	1
04688	Hexachlorobutadiene	87-68-3	1,600		69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	2,400		170	520	1
04688	Hexachloroethane	67-72-1	1,500		17	170	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800		17	170	1
04688	Isophorone	78-59-1	1,600		17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-034-SA5DS-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422540
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:45

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5718 SDG#: DE257-18MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,600	17	170	1
04688	2-Methylnaphthalene	91-57-6	1,700	17	170	1
04688	2-Methylphenol	95-48-7	1,700	35	170	1
04688	4-Methylphenol	106-44-5	1,700	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,600	17	170	1
04688	2-Nitroaniline	88-74-4	1,800	17	170	1
04688	3-Nitroaniline	99-09-2	1,700	35	170	1
04688	4-Nitroaniline	100-01-6	1,300	69	170	1
04688	Nitrobenzene	98-95-3	1,600	17	170	1
04688	2-Nitrophenol	88-75-5	1,700	17	170	1
04688	4-Nitrophenol	100-02-7	1,400	170	520	1
04688	N-Nitrosodimethylamine	62-75-9	1,400	35	170	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	1,700	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	2,100	17	170	1
04688	Pentachlorophenol	87-86-5	1,400	170	520	1
04688	Phenanthrene	85-01-8	1,600	17	170	1
04688	Phenol	108-95-2	1,600	17	170	1
04688	Pyrene	129-00-0	1,600	17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	1,700	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	1,800	35	170	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	29	0.68	1.7	1
10138	Acenaphthylene	208-96-8	28	0.34	1.7	1
10138	Anthracene	120-12-7	30	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	30	0.68	1.7	1
10138	Benzo(a)pyrene	50-32-8	31	0.68	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	33	0.68	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	21	0.68	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	31	0.68	1.7	1
10138	Butylbenzylphthalate	85-68-7	36	6.1	18	1
10138	Di-n-butylphthalate	84-74-2	37	6.1	18	1
10138	Chrysene	218-01-9	30	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	24	0.68	1.7	1
10138	Diethylphthalate	84-66-2	33	6.1	18	1
10138	Dimethylphthalate	131-11-3	32	6.1	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	45	6.1	18	1
10138	Fluoranthene	206-44-0	32	0.68	1.7	1
10138	Fluorene	86-73-7	31	0.68	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	23	0.68	1.7	1
10138	1-Methylnaphthalene	90-12-0	27	0.68	1.7	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-034-SA5DS-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422540
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:45

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5718 SDG#: DE257-18MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	27		0.68	1.7	1
10138	Naphthalene	91-20-3	28		0.68	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	27		0.68	1.7	1
10138	Di-n-octylphthalate	117-84-0	38		6.1	18	1
10138	Phenanthrene	85-01-8	30		0.68	1.7	1
10138	Pyrene	129-00-0	30		0.68	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	7.4		1.3	3.7	1
10401	Dalapon	75-99-0	10		4.6	9.4	1
10401	2,4-DB	94-82-6	11		0.65	1.8	1
10401	Dicamba	1918-00-9	0.74	J	0.42	1.3	1
10401	Dinoseb	88-85-7	2.0	J	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	7.9		0.83	1.8	1
10401	MCPA	94-74-6	450		79	260	1
10401	MCPP (Mecoprop)	93-65-2	670		78	260	1
10401	2,4,5-T	93-76-5	0.32		0.085	0.18	1
10401	2,4,5-TP	93-72-1	0.60		0.078	0.18	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.28		0.069	0.18	1
01363	Alpha BHC	319-84-6	0.26		0.035	0.18	1
01363	Beta BHC	319-85-7	0.32		0.063	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.30		0.035	0.18	1
01363	Chlordane	57-74-9	4.3		0.83	3.5	1
01363	p,p-DDD	72-54-8	0.75		0.069	0.35	1
01363	p,p-DDE	72-55-9	0.71		0.069	0.35	1
01363	p,p-DDT	50-29-3	0.88		0.069	0.35	1
01363	Delta BHC	319-86-8	0.32		0.038	0.18	1
01363	Dieldrin	60-57-1	0.39		0.069	0.35	1
01363	Endosulfan I	959-98-8	0.24		0.046	0.18	1
01363	Endosulfan II	33213-65-9	0.47		0.069	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.60		0.069	0.35	1
01363	Endrin	72-20-8	0.55		0.069	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.57		0.069	0.35	1
01363	Endrin Ketone	53494-70-5	0.58		0.069	0.35	1
01363	Heptachlor	76-44-8	0.31		0.063	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.33		0.035	0.18	1
01363	Methoxychlor	72-43-5	2.1		0.35	1.7	1
01363	Mirex	2385-85-5	0.069	U	0.069	0.35	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9	1

The DCB surrogate recovery is above the client specified client limits of 20-120% for the method blank and Laboratory Control Sample; however the recovery is within the in house statistical limits of 45-150%.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-034-SA5DS-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422540
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:45

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5718 SDG#: DE257-18MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1016	12674-11-2	17		0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	20		0.41	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	36,600		6.06	20.0	1
07914	Boron	7440-42-8	215		0.361	5.01	1
01650	Calcium	7440-70-2	9,330		2.50	20.0	1
01654	Iron	7439-89-6	37,100		5.23	40.1	2
01656	Lithium	7439-93-2	131		0.62	2.0	1
01657	Magnesium	7439-95-4	9,110		0.441	10.0	1
06958	Manganese	7439-96-5	412		0.0361	0.501	1
10145	Phosphorus	7723-14-0	605		0.351	10.0	1
01662	Potassium	7440-09-7	6,440		11.3	50.1	1
01667	Sodium	7440-23-5	1,080		5.96	100	1
07968	Strontium	7440-24-6	136		0.0250	0.501	1
06969	Tin	7440-31-5	341		0.321	10.0	1
06970	Titanium	7440-32-6	1,950		0.142	2.00	2
10146	Zirconium	7440-67-7	93.7		0.461	5.01	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.15		0.0771	0.208	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	10.4		0.0833	0.417	2
06126	Barium	7440-39-3	151		0.276	1.04	5
06127	Beryllium	7440-41-7	2.12		0.0167	0.104	2
06128	Cadmium	7440-43-9	1.66		0.0458	0.104	2
06131	Chromium	7440-47-3	51.5		0.125	0.417	2
06132	Cobalt	7440-48-4	78.9		0.0208	0.104	2
06133	Copper	7440-50-8	34.9		0.0833	0.417	2
06135	Lead	7439-92-1	16.4		0.0106	0.208	2
06138	Molybdenum	7439-98-7	14.3		0.0521	0.104	2
06139	Nickel	7440-02-0	42.4		0.104	0.417	2
06141	Selenium	7782-49-2	2.62		0.0604	0.417	2
06142	Silver	7440-22-4	13.4		0.0148	0.104	2
06145	Thallium	7440-28-0	0.971		0.0313	0.104	2
06148	Vanadium	7440-62-2	92.6		0.0229	0.104	2
06149	Zinc	7440-66-6	116		0.583	3.13	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.182		0.0073	0.104	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-034-SA5DS-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422540
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:45

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5718 SDG#: DE257-18MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	10.0	0.83	1.0	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	598	9.4	31.3	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	46.7	1.0	5.2	5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	4.0	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11283SLA026	10/15/2011 17:07	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11281SLA026	10/12/2011 16:18	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11281SLA026	10/10/2011 10:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11283SLA026	10/11/2011 10:15	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112790018A	10/09/2011 03:52	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112800017A	10/12/2011 23:54	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112800018A	10/21/2011 00:15	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112800017A	10/08/2011 11:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112800018A	10/08/2011 08:00	Katheryne V Sponheimer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112790018A	10/07/2011 03:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112725708002	10/11/2011 14:31	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112725708002	10/11/2011 14:31	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112725708002	10/11/2011 14:31	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112725708002	10/12/2011 04:42	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	112725708002	10/11/2011 14:31	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112725708002	10/11/2011 14:31	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112725708002	10/11/2011 14:31	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112725708002	10/11/2011 14:31	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112725708002	10/11/2011 14:31	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112725708002	10/11/2011 14:31	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-034-SA5DS-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422540
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:45

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5718 SDG#: DE257-18MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112725708002	10/11/2011 14:31	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112725708002	10/11/2011 14:31	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112725708002	10/12/2011 04:42	Tara L Snyder	2
10146	Zirconium	SW-846 6010B	1	112725708002	10/11/2011 14:31	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112721026002A	09/30/2011 11:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112721026002A	09/30/2011 11:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112721026002D	09/30/2011 13:08	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	112721026002A	09/30/2011 11:31	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112721026002A	09/30/2011 11:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112721026002A	09/30/2011 11:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112721026002A	09/30/2011 11:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112721026002A	09/30/2011 11:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112721026002A	09/30/2011 11:31	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112721026002C	09/30/2011 11:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112721026002A	09/30/2011 11:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112721026002B	09/30/2011 11:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112721026002A	09/30/2011 11:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112721026002A	09/30/2011 11:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112721026002A	09/30/2011 11:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112721026002A	09/30/2011 11:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112725711003	09/30/2011 08:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708002	09/29/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026002	09/29/2011 22:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711003	09/30/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285285201B	10/14/2011 04:00	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11278621201B	10/07/2011 02:08	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243202A	10/12/2011 18:21	Elyse P Brunstetter	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285285201B	10/12/2011 07:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11278621201B	10/05/2011 07:00	William L Hamaker Jr	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 11:15	Michelle L Lalli	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162402B	10/05/2011 21:20	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-034-SA5DS-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422541
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:45

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5718 SDG#: DE257-18MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600		17	170	1
04688	Acenaphthylene	208-96-8	1,800		17	170	1
04688	Aniline	62-53-3	1,100		170	520	1
04688	Anthracene	120-12-7	1,800		17	170	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzo(a)anthracene	56-55-3	1,700		17	170	1
04688	Benzo(a)pyrene	50-32-8	1,800		17	170	1
04688	Benzo(b)fluoranthene	205-99-2	2,100		17	170	1
04688	Benzo(g,h,i)perylene	191-24-2	1,700		17	170	1
04688	Benzo(k)fluoranthene	207-08-9	1,700		17	170	1
04688	Benzoic acid	65-85-0	500	J	170	520	1
04688	Benzyl alcohol	100-51-6	1,700		170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		17	170	1
04688	Butylbenzylphthalate	85-68-7	1,700		17	170	1
04688	Di-n-butylphthalate	84-74-2	1,800		17	170	1
04688	Carbazole	86-74-8	1,700		17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		35	170	1
04688	4-Chloroaniline	106-47-8	1,200		69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600		17	170	1
04688	2-Chloronaphthalene	91-58-7	1,700		17	170	1
04688	2-Chlorophenol	95-57-8	1,700		17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		35	170	1
04688	Chrysene	218-01-9	1,500		17	170	1
04688	Dibenz(a,h)anthracene	53-70-3	1,800		17	170	1
04688	Dibenzofuran	132-64-9	1,600		17	170	1
04688	1,2-Dichlorobenzene	95-50-1	1,500		17	170	1
04688	1,3-Dichlorobenzene	541-73-1	1,500		17	170	1
04688	1,4-Dichlorobenzene	106-46-7	1,500		17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,000		100	350	1
04688	2,4-Dichlorophenol	120-83-2	1,800		17	170	1
04688	Diethylphthalate	84-66-2	1,800		17	170	1
04688	2,4-Dimethylphenol	105-67-9	1,700		35	170	1
04688	3,5-Dimethylphenol	108-68-9	1,900		35	170	1
04688	Dimethylphthalate	131-11-3	1,700		17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,000		170	520	1
04688	2,4-Dinitrophenol	51-28-5	1,100		350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	1,700		35	170	1
04688	2,6-Dinitrotoluene	606-20-2	1,800		17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	1,700		17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800		17	350	1
04688	Fluoranthene	206-44-0	1,700		17	170	1
04688	Fluorene	86-73-7	1,800		17	170	1
04688	Hexachlorobenzene	118-74-1	1,800		17	170	1
04688	Hexachlorobutadiene	87-68-3	1,600		69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	2,500		170	520	1
04688	Hexachloroethane	67-72-1	1,500		17	170	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800		17	170	1
04688	Isophorone	78-59-1	1,700		17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-034-SA5DS-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422541
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:45

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5718 SDG#: DE257-18MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1-Methylnaphthalene	90-12-0	1,600	17	170	1
04688	2-Methylnaphthalene	91-57-6	1,700	17	170	1
04688	2-Methylphenol	95-48-7	1,700	35	170	1
04688	4-Methylphenol	106-44-5	1,700	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,600	17	170	1
04688	2-Nitroaniline	88-74-4	1,800	17	170	1
04688	3-Nitroaniline	99-09-2	1,700	35	170	1
04688	4-Nitroaniline	100-01-6	1,400	69	170	1
04688	Nitrobenzene	98-95-3	1,600	17	170	1
04688	2-Nitrophenol	88-75-5	1,700	17	170	1
04688	4-Nitrophenol	100-02-7	1,400	170	520	1
04688	N-Nitrosodimethylamine	62-75-9	1,400	35	170	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	2,100	17	170	1
04688	Pentachlorophenol	87-86-5	1,500	170	520	1
04688	Phenanthrene	85-01-8	1,700	17	170	1
04688	Phenol	108-95-2	1,700	17	170	1
04688	Pyrene	129-00-0	1,700	17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	1,900	35	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	29	0.68	1.7	1
10138	Acenaphthylene	208-96-8	28	0.34	1.7	1
10138	Anthracene	120-12-7	30	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	29	0.68	1.7	1
10138	Benzo(a)pyrene	50-32-8	30	0.68	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	32	0.68	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	20	0.68	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	31	0.68	1.7	1
10138	Butylbenzylphthalate	85-68-7	35	6.1	18	1
10138	Di-n-butylphthalate	84-74-2	35	6.1	18	1
10138	Chrysene	218-01-9	29	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	23	0.68	1.7	1
10138	Diethylphthalate	84-66-2	33	6.1	18	1
10138	Dimethylphthalate	131-11-3	32	6.1	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	41	6.1	18	1
10138	Fluoranthene	206-44-0	31	0.68	1.7	1
10138	Fluorene	86-73-7	30	0.68	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	23	0.68	1.7	1
10138	1-Methylnaphthalene	90-12-0	27	0.68	1.7	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-034-SA5DS-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422541
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:45

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5718 SDG#: DE257-18MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	27		0.68	1.7	1
10138	Naphthalene	91-20-3	28		0.68	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	25		0.68	1.7	1
10138	Di-n-octylphthalate	117-84-0	35		6.1	18	1
10138	Phenanthrene	85-01-8	29		0.68	1.7	1
10138	Pyrene	129-00-0	29		0.68	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.5	J	1.3	3.7	1
10401	Dalapon	75-99-0	5.2	J	4.6	9.3	1
10401	2,4-DB	94-82-6	17		0.65	1.8	1
10401	Dicamba	1918-00-9	0.79	J	0.42	1.3	1
10401	Dinoseb	88-85-7	1.5	J	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	6.9		0.83	1.8	1
10401	MCPA	94-74-6	240	J	79	260	1
10401	MCPP (Mecoprop)	93-65-2	680		78	260	1
10401	2,4,5-T	93-76-5	0.22		0.085	0.18	1
10401	2,4,5-TP	93-72-1	0.51		0.078	0.18	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.27		0.069	0.18	1
01363	Alpha BHC	319-84-6	0.24		0.035	0.18	1
01363	Beta BHC	319-85-7	0.31		0.063	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.28		0.035	0.18	1
01363	Chlordane	57-74-9	3.1	J	0.83	3.5	1
01363	p,p-DDD	72-54-8	0.69		0.069	0.35	1
01363	p,p-DDE	72-55-9	0.68		0.069	0.35	1
01363	p,p-DDT	50-29-3	0.88		0.069	0.35	1
01363	Delta BHC	319-86-8	0.32		0.038	0.18	1
01363	Dieldrin	60-57-1	0.35		0.069	0.35	1
01363	Endosulfan I	959-98-8	0.23		0.046	0.18	1
01363	Endosulfan II	33213-65-9	0.45		0.069	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.55		0.069	0.35	1
01363	Endrin	72-20-8	0.52		0.069	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.50		0.069	0.35	1
01363	Endrin Ketone	53494-70-5	0.57		0.069	0.35	1
01363	Heptachlor	76-44-8	0.34		0.063	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.33		0.035	0.18	1
01363	Methoxychlor	72-43-5	2.1		0.35	1.7	1
01363	Mirex	2385-85-5	0.069	U	0.069	0.35	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9	1

The DCB surrogate recovery is above the client specified client limits of 20-120% for the method blank and Laboratory Control Sample; however the recovery is within the in house statistical limits of 45-150%.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-034-SA5DS-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422541
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:45

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5718 SDG#: DE257-18MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1016	12674-11-2	19		0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	22		0.41	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
	The surrogate recovery was outside the client specified QC limits. However, the recovery is within our in house statistical limits of 53-142% for DCB. The data is reported						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	37,400		6.18	20.4	1
07914	Boron	7440-42-8	219		0.368	5.11	1
01650	Calcium	7440-70-2	9,590		2.55	20.4	1
01654	Iron	7439-89-6	39,300		5.33	40.8	2
01656	Lithium	7439-93-2	135		0.63	2.0	1
01657	Magnesium	7439-95-4	9,220		0.449	10.2	1
06958	Manganese	7439-96-5	421		0.0368	0.511	1
10145	Phosphorus	7723-14-0	631		0.357	10.2	1
01662	Potassium	7440-09-7	6,620		11.5	51.1	1
01667	Sodium	7440-23-5	1,090		6.08	102	1
07968	Strontium	7440-24-6	139		0.0255	0.511	1
06969	Tin	7440-31-5	350		0.327	10.2	1
06970	Titanium	7440-32-6	2,060		0.145	2.04	2
10146	Zirconium	7440-67-7	96.8		0.470	5.11	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	1.15		0.0763	0.206	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.91		0.0825	0.413	2
06126	Barium	7440-39-3	150		0.273	1.03	5
06127	Beryllium	7440-41-7	2.07		0.0165	0.103	2
06128	Cadmium	7440-43-9	1.67		0.0454	0.103	2
06131	Chromium	7440-47-3	54.3		0.124	0.413	2
06132	Cobalt	7440-48-4	80.6		0.0206	0.103	2
06133	Copper	7440-50-8	34.8		0.0825	0.413	2
06135	Lead	7439-92-1	16.8		0.0105	0.206	2
06138	Molybdenum	7439-98-7	14.1		0.0516	0.103	2
06139	Nickel	7440-02-0	44.1		0.103	0.413	2
06141	Selenium	7782-49-2	2.68		0.0598	0.413	2
06142	Silver	7440-22-4	13.3		0.0146	0.103	2
06145	Thallium	7440-28-0	0.938		0.0309	0.103	2
06148	Vanadium	7440-62-2	97.9		0.0227	0.103	2
06149	Zinc	7440-66-6	114		0.578	3.09	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-034-SA5DS-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422541
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:45

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5718 SDG#: DE257-18MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 7471A**		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.174	0.0069	0.0986	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.0	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11283SLA026	10/15/2011 17:32	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11281SLA026	10/12/2011 16:50	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11281SLA026	10/10/2011 10:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11283SLA026	10/11/2011 10:15	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112790018A	10/09/2011 04:19	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112800017A	10/13/2011 00:09	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112800018A	10/21/2011 00:33	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112800017A	10/08/2011 11:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112800018A	10/08/2011 08:00	Katheryne V Sponheimer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112790018A	10/07/2011 03:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112725708002	10/11/2011 14:35	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112725708002	10/11/2011 14:35	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112725708002	10/11/2011 14:35	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112725708002	10/12/2011 04:47	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	112725708002	10/11/2011 14:35	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112725708002	10/11/2011 14:35	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112725708002	10/11/2011 14:35	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112725708002	10/11/2011 14:35	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112725708002	10/11/2011 14:35	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112725708002	10/11/2011 14:35	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112725708002	10/11/2011 14:35	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112725708002	10/11/2011 14:35	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112725708002	10/12/2011 04:47	Tara L Snyder	2
10146	Zirconium	SW-846 6010B	1	112725708002	10/11/2011 14:35	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112721026002A	09/30/2011 11:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112721026002A	09/30/2011 11:35	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112721026002D	09/30/2011 12:46	Choon Y Tian	5

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-034-SA5DS-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422541
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:45

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5718 SDG#: DE257-18MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	112721026002A	09/30/2011 11:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112721026002A	09/30/2011 11:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112721026002A	09/30/2011 11:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112721026002A	09/30/2011 11:35	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112721026002A	09/30/2011 11:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112721026002A	09/30/2011 11:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112721026002C	09/30/2011 11:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112721026002A	09/30/2011 11:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112721026002B	09/30/2011 11:35	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112721026002A	09/30/2011 11:35	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112721026002A	09/30/2011 11:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112721026002A	09/30/2011 11:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112721026002A	09/30/2011 11:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112725711003	09/30/2011 08:11	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708002	09/29/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026002	09/29/2011 22:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711003	09/30/2011 02:00	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162402B	10/05/2011 21:20	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-034-SA5DS-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422542
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:45

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5718 SDG#: DE257-18DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	31,200		6.24	20.6	1
07914	Boron	7440-42-8	15.6		0.371	5.16	1
01650	Calcium	7440-70-2	8,670		2.58	20.6	1
01654	Iron	7439-89-6	36,400		5.38	41.3	2
01656	Lithium	7439-93-2	31.2		0.64	2.1	1
01657	Magnesium	7439-95-4	8,740		0.454	10.3	1
06958	Manganese	7439-96-5	370		0.0371	0.516	1
10145	Phosphorus	7723-14-0	522		0.361	10.3	1
01662	Potassium	7440-09-7	5,010		11.7	51.6	1
01667	Sodium	7440-23-5	99.5	J	6.14	103	1
07968	Strontium	7440-24-6	39.2		0.0258	0.516	1
06969	Tin	7440-31-5	2.73	J	0.330	10.3	1
06970	Titanium	7440-32-6	1,530		0.0732	1.03	1
10146	Zirconium	7440-67-7	5.70		0.474	5.16	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.353		0.0763	0.206	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.65		0.0825	0.413	2
06126	Barium	7440-39-3	186		0.109	0.413	2
06127	Beryllium	7440-41-7	1.10		0.0165	0.103	2
06128	Cadmium	7440-43-9	0.309		0.0454	0.103	2
06131	Chromium	7440-47-3	40.9		0.124	0.413	2
06132	Cobalt	7440-48-4	13.9		0.0206	0.103	2
06133	Copper	7440-50-8	21.6		0.0825	0.413	2
06135	Lead	7439-92-1	12.3		0.0105	0.206	2
06138	Molybdenum	7439-98-7	0.619		0.0516	0.103	2
06139	Nickel	7440-02-0	28.9		0.103	0.413	2
06141	Selenium	7782-49-2	0.258	J	0.0598	0.413	2
06142	Silver	7440-22-4	0.0372	J	0.0146	0.103	2
06145	Thallium	7440-28-0	0.454		0.0309	0.103	2
06148	Vanadium	7440-62-2	81.9		0.0227	0.103	2
06149	Zinc	7440-66-6	102		0.578	3.09	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0072	U	0.0072	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.82	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1		0.20	1.0	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-034-SA5DS-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422542
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:45

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5718 SDG#: DE257-18DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.61	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11626	28a Moisture Content by 160.3	n.a.	3.9	0.50	0.50	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					
11625	Moisture Content by 160.3	n.a.	4.0	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	112725708002	10/11/2011 14:26	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112725708002	10/11/2011 14:26	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112725708002	10/11/2011 14:26	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112725708002	10/12/2011 04:38	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	112725708002	10/11/2011 14:26	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112725708002	10/11/2011 14:26	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112725708002	10/11/2011 14:26	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112725708002	10/11/2011 14:26	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112725708002	10/11/2011 14:26	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112725708002	10/11/2011 14:26	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112725708002	10/11/2011 14:26	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112725708002	10/11/2011 14:26	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112725708002	10/11/2011 14:26	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112725708002	10/11/2011 14:26	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112721026002A	09/30/2011 11:28	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112721026002A	09/30/2011 11:28	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112721026002D	09/30/2011 11:28	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112721026002A	09/30/2011 11:28	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112721026002A	09/30/2011 11:28	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112721026002A	09/30/2011 11:28	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112721026002A	09/30/2011 11:28	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112721026002A	09/30/2011 11:28	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112721026002A	09/30/2011 11:28	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112721026002C	09/30/2011 11:28	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112721026002A	09/30/2011 11:28	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112721026002B	09/30/2011 11:28	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-034-SA5DS-SS-0.0-0.5DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422542
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:45

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5718 SDG#: DE257-18DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	112721026002A	09/30/2011 11:28	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112721026002A	09/30/2011 11:28	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112721026002A	09/30/2011 11:28	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112721026002A	09/30/2011 11:28	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112725711003	09/30/2011 08:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708002	09/29/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026002	09/29/2011 22:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711003	09/30/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285285201B	10/14/2011 03:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11278621201B	10/07/2011 01:22	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11283243202A	10/12/2011 19:21	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285285201B	10/12/2011 07:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11278621201B	10/05/2011 07:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039401B	10/12/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 11:15	Michelle L Lalli	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11278162402B	10/05/2011 21:20	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162402B	10/05/2011 21:20	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-034-SA5DS-SS-0.0-0.5RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422543
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:45

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5718 SDG#: DE257-18RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4	1
10401	2,4-DB	94-82-6	1.6	U	1.6	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8	1
10401	MCPA	94-74-6	85	U	85	260	1
10401	MCPP (Mecoprop)	93-65-2	110	U	110	260	1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18	1
10401	2,4,5-TP	93-72-1	0.11	U	0.11	0.18	1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. Various compounds were affected.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.13	J	0.068	0.17	1
01363	Alpha BHC	319-84-6	0.11	J	0.035	0.17	1
01363	Beta BHC	319-85-7	0.095	J	0.062	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.15	J	0.035	0.17	1
01363	Chlordane	57-74-9	1.7	J	0.83	3.5	1
01363	p,p-DDD	72-54-8	0.41		0.068	0.35	1
01363	p,p-DDE	72-55-9	0.43		0.068	0.35	1
01363	p,p-DDT	50-29-3	0.60		0.068	0.35	1
01363	Delta BHC	319-86-8	0.16	J	0.037	0.17	1
01363	Dieldrin	60-57-1	0.31	J	0.068	0.35	1
01363	Endosulfan I	959-98-8	0.12	J	0.045	0.17	1
01363	Endosulfan II	33213-65-9	0.29	J	0.068	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.36		0.068	0.35	1
01363	Endrin	72-20-8	0.33	J	0.068	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.29	J	0.068	0.35	1
01363	Endrin Ketone	53494-70-5	0.34	J	0.068	0.35	1
01363	Heptachlor	76-44-8	0.16	J	0.062	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.18		0.035	0.17	1
01363	Methoxychlor	72-43-5	2.1		0.35	1.7	1
01363	Mirex	2385-85-5	0.068	U	0.068	0.35	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.8	1

The DCB surrogate recovery is above the client specified client limits of 20-120% for the method blank and Laboratory Control Sample; however the recovery is within the in house statistical limits of 45-150%.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-034-SA5DS-SS-0.0-0.5RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422543
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:45

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5718 SDG#: DE257-18RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1248	12672-29-6	3.1		0.34	1.8	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	3.2		0.41	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside of the method required holding time, and surrogate recoveries are within the QC acceptance limits. Since the hold time had expired prior to the second extraction all results are reported from the original extract. Similar results were obtained in both extracts.

Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11625	Moisture Content by 160.3	n.a.	4.0		0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112790018A	10/09/2011 04:47	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112800017A	10/13/2011 01:53	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112800018A	10/21/2011 00:52	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112800017A	10/08/2011 11:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112800018A	10/08/2011 08:00	Katheryne V Sponheimer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112790018A	10/07/2011 03:00	Kerrie A Freeburn	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162402B	10/05/2011 21:20	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-034-SA5DS-SS-0.0-0.5RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422544
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:45

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5718 SDG#: DE257-18RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		ug/kg		ug/kg	ug/kg	
10401	2,4-D	94-75-7	4.8		1.2	3.6	1
10401	Dalapon	75-99-0	5.7	J	4.4	9.0	1
10401	2,4-DB	94-82-6	1.8	U	1.8	1.8	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.80	U	0.80	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	1.5	J	0.80	1.7	1
10401	MCPA	94-74-6	100	J	76	250	1
10401	MCPP (Mecoprop)	93-65-2	96	J	75	250	1
10401	2,4,5-T	93-76-5	0.13	J	0.082	0.17	1
10401	2,4,5-TP	93-72-1	0.10	J	0.075	0.17	1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.

Pesticides/PCBs	**SW-846 8081A**		ug/kg		ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.14	J	0.066	0.17	1
01363	Alpha BHC	319-84-6	0.12	J	0.034	0.17	1
01363	Beta BHC	319-85-7	0.19		0.060	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.14	J	0.034	0.17	1
01363	Chlordane	57-74-9	0.80	U	0.80	3.4	1
01363	p,p-DDD	72-54-8	0.29	J	0.066	0.34	1
01363	p,p-DDE	72-55-9	0.28	J	0.066	0.34	1
01363	p,p-DDT	50-29-3	0.32	J	0.066	0.34	1
01363	Delta BHC	319-86-8	0.16	J	0.036	0.17	1
01363	Dieldrin	60-57-1	0.15	J	0.066	0.34	1
01363	Endosulfan I	959-98-8	0.080	J	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.20	J	0.066	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.17	J	0.066	0.34	1
01363	Endrin	72-20-8	0.25	J	0.066	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.29	J	0.066	0.34	1
01363	Endrin Ketone	53494-70-5	0.26	J	0.066	0.34	1
01363	Heptachlor	76-44-8	0.14	J	0.060	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.12	J	0.034	0.17	1
01363	Methoxychlor	72-43-5	0.82	J	0.34	1.7	1
01363	Mirex	2385-85-5	0.066	U	0.066	0.34	1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.6	1

The DCB surrogate recovery is above the client specified client limits of 20-120% for the method blank and Laboratory Control Sample; however the recovery is within the in house statistical limits of 45-150%.

Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3	1
10225	PCB-1016	12674-11-2	2.3		0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-034-SA5DS-SS-0.0-0.5RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422544
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:45

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5718 SDG#: DE257-18RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7	1
10225	PCB-1260	11096-82-5	2.6		0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside of the method required holding time, and surrogate recoveries are within the QC acceptance limits. Since the hold time had expired prior to the second extraction all results are reported from the original extract. Similar results were obtained in both extracts.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112790018A	10/09/2011 05:14	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112800017A	10/13/2011 02:08	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112800018A	10/21/2011 01:11	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112800017A	10/08/2011 11:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112800018A	10/08/2011 08:00	Katheryne V Sponheimer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112790018A	10/07/2011 03:00	Kerrie A Freeburn	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422545
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 15:05

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5719 SDG#: DE257-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	500	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	500	1
04688	Benzyl alcohol	100-51-6	170	U	170	500	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	67	U	67	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	500	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	67	U	67	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	500	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	67	U	67	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	500	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	500	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-040-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422545
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 15:05

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5719 SDG#: DE257-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.66	U	0.66	1.7	1
10138	Acenaphthylene	208-96-8	0.33	U	0.33	1.7	1
10138	Anthracene	120-12-7	0.33	U	0.33	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.77	J	0.66	1.7	1
10138	Benzo(a)pyrene	50-32-8	1.2	J	0.66	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	6.7		0.66	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.66	U	0.66	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.66	U	0.66	1.7	1
10138	Butylbenzylphthalate	85-68-7	8.8	J	6.0	18	1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18	1
10138	Chrysene	218-01-9	1.9		0.33	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.66	U	0.66	1.7	1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18	1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J	6.0	18	1
10138	Fluoranthene	206-44-0	2.3		0.66	1.7	1
10138	Fluorene	86-73-7	0.66	U	0.66	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.66	U	0.66	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.66	U	0.66	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.66	U	0.66	1.7	1
10138	Naphthalene	91-20-3	1.4	J	0.66	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.66	U	0.66	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18	1
10138	Phenanthrene	85-01-8	1.5	J	0.66	1.7	1
10138	Pyrene	129-00-0	2.2		0.66	1.7	1

The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.6	1
10401	Dalapon	75-99-0	4.4	U	4.4	9.1	1
10401	2,4-DB	94-82-6	2.6	U	2.6	2.6	1
10401	Dicamba	1918-00-9	0.40	U	0.40	1.2	1
10401	Dinoseb	88-85-7	0.81	U	0.81	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.81	U	0.81	1.7	1
10401	MCPA	94-74-6	77	U	77	250	1
10401	MCPP (Mecoprop)	93-65-2	76	U	76	250	1
10401	2,4,5-T	93-76-5	0.083	U	0.083	0.17	1
10401	2,4,5-TP	93-72-1	0.62		0.076	0.17	1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following

Sample Description: SL-040-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422545
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 15:05

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5719 SDG#: DE257-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
compounds were affected: 2,4-DB.							
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	J	2.1	5.1	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17	1
01363	Alpha BHC	319-84-6	0.034	U	0.034	0.17	1
01363	Beta BHC	319-85-7	0.081	J	0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.053	J	0.034	0.17	1
01363	Chlordane	57-74-9	0.81	U	0.81	3.4	1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.34	1
01363	p,p-DDE	72-55-9	0.11	U	0.11	0.34	1
01363	p,p-DDT	50-29-3	0.23	U	0.23	0.34	1
01363	Delta BHC	319-86-8	0.036	U	0.036	0.17	1
01363	Dieldrin	60-57-1	0.067	U	0.067	0.34	1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17	1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.067	U	0.067	0.34	1
01363	Endrin	72-20-8	0.067	U	0.067	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.067	U	0.067	0.34	1
01363	Endrin Ketone	53494-70-5	0.067	U	0.067	0.34	1
01363	Heptachlor	76-44-8	0.061	U	0.061	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.034	U	0.034	0.17	1
01363	Methoxychlor	72-43-5	0.34	U	0.34	1.7	1
01363	Mirex	2385-85-5	0.067	U	0.067	0.34	1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.7	1
The DCB surrogate recovery is above the client specified client limits of 20-120% for the method blank and Laboratory Control Sample; however the recovery is within the in house statistical limits of 45-150%.							
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	2.9	J	1.0	3.3	1
10225	PCB-1016	12674-11-2	0.33	U	0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	0.85	J	0.33	1.7	1
10225	PCB-1260	11096-82-5	1.5	J	0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,000		6.07	20.1	1
07914	Boron	7440-42-8	8.35		0.361	5.02	1
01650	Calcium	7440-70-2	3,090		2.51	20.1	1
01654	Iron	7439-89-6	22,500		2.62	20.1	1
01656	Lithium	7439-93-2	17.7		0.62	2.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-040-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422545
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 15:05

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5719 SDG#: DE257-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	4,710		0.441	10.0	1
06958	Manganese	7439-96-5	369		0.0361	0.502	1
10145	Phosphorus	7723-14-0	360		0.351	10.0	1
01662	Potassium	7440-09-7	4,120		11.3	50.2	1
01667	Sodium	7440-23-5	83.6	J	5.97	100	1
07968	Strontium	7440-24-6	25.8		0.0251	0.502	1
06969	Tin	7440-31-5	2.42	J	0.321	10.0	1
06970	Titanium	7440-32-6	1,270		0.0712	1.00	1
10146	Zirconium	7440-67-7	3.49	J	0.461	5.02	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.258		0.0750	0.203	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.98		0.0811	0.405	2
06126	Barium	7440-39-3	117		0.107	0.405	2
06127	Beryllium	7440-41-7	0.757		0.0162	0.101	2
06128	Cadmium	7440-43-9	0.217		0.0446	0.101	2
06131	Chromium	7440-47-3	33.2		0.122	0.405	2
06132	Cobalt	7440-48-4	9.83		0.0203	0.101	2
06133	Copper	7440-50-8	10.9		0.0811	0.405	2
06135	Lead	7439-92-1	14.1		0.0103	0.203	2
06138	Molybdenum	7439-98-7	0.762		0.0507	0.101	2
06139	Nickel	7440-02-0	17.7		0.101	0.405	2
06141	Selenium	7782-49-2	0.188	J	0.0588	0.405	2
06142	Silver	7440-22-4	0.0289	J	0.0144	0.101	2
06145	Thallium	7440-28-0	0.273		0.0304	0.101	2
06148	Vanadium	7440-62-2	62.3		0.0223	0.101	2
06149	Zinc	7440-66-6	61.2		0.567	3.04	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0070	U	0.0070	0.100	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.81	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.1	U	9.1	30.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	0.99	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.27		0.0100	0.0100	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-040-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422545
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 15:05

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Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E5719 SDG#: DE257-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	1.3	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11283SLA026	10/15/2011 17:57	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11281SLA026	10/13/2011 01:27	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11281SLA026	10/10/2011 10:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11283SLA026	10/11/2011 10:15	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112790018A	10/09/2011 05:41	John W Perkins	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112770016A	10/05/2011 20:06	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112800017A	10/13/2011 02:23	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112800018A	10/21/2011 01:30	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112800017A	10/08/2011 11:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112800018A	10/08/2011 08:00	Katheryne V Sponheimer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112790018A	10/07/2011 03:00	Kerrie A Freeburn	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112770016A	10/05/2011 09:00	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	112725708002	10/11/2011 16:01	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112725708002	10/11/2011 16:01	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112725708002	10/11/2011 16:01	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112725708002	10/11/2011 16:01	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112725708002	10/11/2011 16:01	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112725708002	10/11/2011 16:01	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112725708002	10/11/2011 16:01	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112725708002	10/11/2011 16:01	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112725708002	10/11/2011 16:01	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112725708002	10/11/2011 16:01	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112725708002	10/11/2011 16:01	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112725708002	10/11/2011 16:01	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112725708002	10/11/2011 16:01	Eric L Eby	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-040-SA5DS-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422545
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E5719 SDG#: DE257-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	112725708002	10/11/2011 16:01	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112721026002A	09/30/2011 12:40	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112721026002A	09/30/2011 12:40	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112721026002D	09/30/2011 12:40	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112721026002A	09/30/2011 12:40	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112721026002A	09/30/2011 12:40	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112721026002A	09/30/2011 12:40	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112721026002A	09/30/2011 12:40	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112721026002A	09/30/2011 12:40	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112721026002A	09/30/2011 12:40	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112721026002C	09/30/2011 12:40	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112721026002A	09/30/2011 12:40	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112721026002B	09/30/2011 12:40	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112721026002A	09/30/2011 12:40	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112721026002A	09/30/2011 12:40	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112721026002A	09/30/2011 12:40	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112721026002A	09/30/2011 12:40	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112725711003	09/30/2011 08:12	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708002	09/29/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026002	09/29/2011 22:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711003	09/30/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285285201B	10/14/2011 05:37	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11278621201B	10/07/2011 04:27	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243202A	10/12/2011 19:28	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285285201B	10/12/2011 07:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11278621201B	10/05/2011 07:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039401B	10/12/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 11:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162402B	10/05/2011 21:20	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: DUP-02-SA5DS-QC-092811 Soil
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5DS-QC-092811

LLI Sample # SW 6422546
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:55

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5720 SDG#: DE257-20FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	48	J	17	350	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP-02-SA5DS-QC-092811 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5DS-QC-092811

LLI Sample # SW 6422546
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:55

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5720 SDG#: DE257-20FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.68	U	0.68	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.68	U	0.68	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	1.7	J	0.68	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.68	U	0.68	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.68	U	0.68	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18	1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18	1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7	1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18	1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18	1
10138	Fluoranthene	206-44-0	0.68	U	0.68	1.7	1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7	1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18	1
10138	Phenanthrene	85-01-8	0.68	U	0.68	1.7	1
10138	Pyrene	129-00-0	0.68	U	0.68	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.3	1
10401	2,4-DB	94-82-6	2.6	U	2.6	2.6	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.2	1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8	1
10401	MCPA	94-74-6	79	U	79	260	1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260	1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18	1
10401	2,4,5-TP	93-72-1	0.23	U	0.23	0.23	1

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4,5-TP, and 2,4-DB.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **DUP-02-SA5DS-QC-092811 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5DS-QC-092811

LLI Sample # SW 6422546
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:55

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5720 SDG#: DE257-20FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.13	J	0.062	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	1.9	J	0.83	3.5	1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35	1
01363	p,p-DDE	72-55-9	0.36		0.068	0.35	1
01363	p,p-DDT	50-29-3	0.46		0.068	0.35	1
01363	Delta BHC	319-86-8	0.040	U	0.040	0.17	1
01363	Dieldrin	60-57-1	0.068	U	0.068	0.35	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.068	U	0.068	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35	1
01363	Endrin	72-20-8	0.068	U	0.068	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.13	J	0.068	0.35	1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35	1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.068	U	0.068	0.35	1
01363	Toxaphene	8001-35-2	4.9	U	4.9	6.8	1

The DCB surrogate recovery is above the client specified client limits of 20-120% for the method blank and Laboratory Control Sample; however the recovery is within the in house statistical limits of 45-150%.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.62	J	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,100		6.23	20.6	1
07914	Boron	7440-42-8	14.9		0.371	5.15	1
01650	Calcium	7440-70-2	8,920		2.57	20.6	1
01654	Iron	7439-89-6	35,800		5.37	41.2	2
01656	Lithium	7439-93-2	30.4		0.64	2.1	1
01657	Magnesium	7439-95-4	8,650		0.453	10.3	1
06958	Manganese	7439-96-5	353		0.0371	0.515	1
10145	Phosphorus	7723-14-0	533		0.360	10.3	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP-02-SA5DS-QC-092811 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5DS-QC-092811

LLI Sample # SW 6422546
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:55

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5720 SDG#: DE257-20FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	5,030		11.6	51.5	1
01667	Sodium	7440-23-5	99.2	J	6.12	103	1
07968	Strontium	7440-24-6	39.1		0.0257	0.515	1
06969	Tin	7440-31-5	2.82	J	0.329	10.3	1
06970	Titanium	7440-32-6	1,440		0.0731	1.03	1
10146	Zirconium	7440-67-7	4.15	J	0.473	5.15	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.330		0.0740	0.200	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.53		0.0800	0.400	2
06126	Barium	7440-39-3	134		0.265	1.00	5
06127	Beryllium	7440-41-7	1.08		0.0160	0.100	2
06128	Cadmium	7440-43-9	0.277		0.0440	0.100	2
06131	Chromium	7440-47-3	40.4		0.120	0.400	2
06132	Cobalt	7440-48-4	14.2		0.0200	0.100	2
06133	Copper	7440-50-8	21.8		0.0800	0.400	2
06135	Lead	7439-92-1	12.7		0.0102	0.200	2
06138	Molybdenum	7439-98-7	0.543		0.0500	0.100	2
06139	Nickel	7440-02-0	28.0		0.100	0.400	2
06141	Selenium	7782-49-2	0.267	J	0.0580	0.400	2
06142	Silver	7440-22-4	0.0420	J	0.0142	0.100	2
06145	Thallium	7440-28-0	0.448		0.0300	0.100	2
06148	Vanadium	7440-62-2	81.1		0.0220	0.100	2
06149	Zinc	7440-66-6	99.6		0.560	3.00	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	U	0.0071	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.82	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.0		0.20	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.31		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	3.8		0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP-02-SA5DS-QC-092811 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5DS-QC-092811

LLI Sample # SW 6422546
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:55

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5720 SDG#: DE257-20FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11283SLA026	10/15/2011 18:22	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11281SLA026	10/13/2011 01:59	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11281SLA026	10/10/2011 10:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11283SLA026	10/11/2011 10:15	Denise L Trimby	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112790018A	10/09/2011 06:09	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112800017A	10/13/2011 02:37	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112800018A	10/21/2011 01:48	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112800017A	10/08/2011 11:00	Sally L Appleyard	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112800018A	10/08/2011 08:00	Katheryne V Sponheimer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112790018A	10/07/2011 03:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112725708002	10/11/2011 16:05	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112725708002	10/11/2011 16:05	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112725708002	10/11/2011 16:05	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112725708002	10/12/2011 04:59	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	112725708002	10/11/2011 16:05	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112725708002	10/11/2011 16:05	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112725708002	10/11/2011 16:05	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112725708002	10/11/2011 16:05	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112725708002	10/11/2011 16:05	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112725708002	10/11/2011 16:05	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112725708002	10/11/2011 16:05	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112725708002	10/11/2011 16:05	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112725708002	10/11/2011 16:05	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112725708002	10/11/2011 16:05	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112721026002A	09/30/2011 12:43	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112721026002A	09/30/2011 12:43	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112721026002D	09/30/2011 13:11	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	112721026002A	09/30/2011 12:43	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Sample Description: **DUP-02-SA5DS-QC-092811 Soil**
SSFL Area IV Collocated Soil Sampling
DUP-02-SA5DS-QC-092811

LLI Sample # SW 6422546
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:55

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5720 SDG#: DE257-20FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112721026002A	09/30/2011 12:43	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112721026002A	09/30/2011 12:43	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112721026002A	09/30/2011 12:43	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112721026002A	09/30/2011 12:43	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112721026002A	09/30/2011 12:43	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112721026002C	09/30/2011 12:43	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112721026002A	09/30/2011 12:43	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112721026002B	09/30/2011 12:43	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112721026002A	09/30/2011 12:43	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112721026002A	09/30/2011 12:43	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112721026002A	09/30/2011 12:43	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112721026002A	09/30/2011 12:43	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112725711003	09/30/2011 08:13	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112725708002	09/29/2011 22:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112721026002	09/29/2011 22:18	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112725711003	09/30/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285285201B	10/14/2011 05:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11278621201B	10/07/2011 04:50	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243202A	10/12/2011 19:42	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285285201B	10/12/2011 07:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11278621201B	10/05/2011 07:00	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039401B	10/12/2011 09:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 11:15	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11279162401A	10/06/2011 22:58	Scott W Freisher	1

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Analysis Report

Sample Description: **EB-SA5DS-SS-092811 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA5DS-SS-092811

LLI Sample # WW 6422547
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:00

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5721 SDG#: DE257-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5	1
04678	Benzidine	92-87-5	20	U	20	59	1
04678	Benzoic acid	65-85-0	6	U	6	15	1
04678	Benzyl alcohol	100-51-6	5	U	5	15	1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5	1
04678	Carbazole	86-74-8	1	U	1	5	1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5	1
04678	4-Chloroaniline	106-47-8	1	U	1	5	1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5	1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5	1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5	1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5	1
04678	2-Chlorophenol	95-57-8	1	U	1	5	1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5	1
04678	Dibenzofuran	132-64-9	1	U	1	5	1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5	1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5	1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10	1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15	1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	30	1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5	1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5	1
04678	Hexachlorobenzene	118-74-1	1	U	1	5	1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5	1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15	1
04678	Hexachloroethane	67-72-1	1	U	1	5	1
04678	Isophorone	78-59-1	1	U	1	5	1
04678	2-Methylphenol	95-48-7	1	U	1	5	1
04678	4-Methylphenol	106-44-5	2	U	2	5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04678	2-Nitroaniline	88-74-4	1	U	1	5	1
04678	3-Nitroaniline	99-09-2	1	U	1	5	1
04678	4-Nitroaniline	100-01-6	1	U	1	5	1
04678	Nitrobenzene	98-95-3	1	U	1	5	1
04678	2-Nitrophenol	88-75-5	1	U	1	5	1
04678	4-Nitrophenol	100-02-7	10	U	10	30	1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5	1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04678	Pentachlorophenol	87-86-5	3	U	3	15	1
04678	Phenol	108-95-2	1	U	1	5	1

*=This limit was used in the evaluation of the final result

Sample Description: **EB-SA5DS-SS-092811 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA5DS-SS-092811

LLI Sample # WW 6422547
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:00

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5721 SDG#: DE257-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5	1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.011	U	0.011	0.053	1
10137	Acenaphthylene	208-96-8	0.011	U	0.011	0.053	1
10137	Anthracene	120-12-7	0.011	U	0.011	0.053	1
10137	Benzo(a)anthracene	56-55-3	0.011	U	0.011	0.053	1
10137	Benzo(a)pyrene	50-32-8	0.011	U	0.011	0.053	1
10137	Benzo(b)fluoranthene	205-99-2	0.011	U	0.011	0.053	1
10137	Benzo(g,h,i)perylene	191-24-2	0.011	U	0.011	0.053	1
10137	Benzo(k)fluoranthene	207-08-9	0.011	U	0.011	0.053	1
10137	Butylbenzylphthalate	85-68-7	0.053	U	0.053	1.1	1
10137	Di-n-butylphthalate	84-74-2	0.74	J	0.053	1.1	1
10137	Chrysene	218-01-9	0.011	U	0.011	0.053	1
10137	Dibenz(a,h)anthracene	53-70-3	0.011	U	0.011	0.053	1
10137	Diethylphthalate	84-66-2	0.36	J	0.053	1.1	1
10137	Dimethylphthalate	131-11-3	0.053	U	0.053	1.1	1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.11	J	0.053	1.1	1
10137	Fluoranthene	206-44-0	0.011	U	0.011	0.053	1
10137	Fluorene	86-73-7	0.011	U	0.011	0.053	1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.011	U	0.011	0.053	1
10137	1-Methylnaphthalene	90-12-0	0.011	U	0.011	0.053	1
10137	2-Methylnaphthalene	91-57-6	0.011	U	0.011	0.053	1
10137	Naphthalene	91-20-3	0.057		0.032	0.053	1
10137	N-Nitrosodimethylamine	62-75-9	0.011	U	0.011	0.053	1
10137	Di-n-octylphthalate	117-84-0	0.12	J	0.053	1.1	1
10137	Phenanthrene	85-01-8	0.032	U	0.032	0.053	1
10137	Pyrene	129-00-0	0.011	U	0.011	0.053	1
Reporting limits were raised due to limited sample volume.							
Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	
10407	2,4-D	94-75-7	0.16	U	0.16	0.49	1
10407	Dalapon	75-99-0	0.25	U	0.25	1.2	1
10407	2,4-DB	94-82-6	0.30	U	0.30	0.99	1
10407	Dicamba	1918-00-9	0.079	U	0.079	0.30	1
10407	Dinoseb	88-85-7	0.099	U	0.099	0.49	1
10407	2,4-DP (Dichlorprop)	120-36-5	0.16	U	0.16	0.49	1
10407	MCPA	94-74-6	300	U	300	990	1
10407	MCPP	93-65-2	49	U	49	200	1
10407	2,4,5-T	93-76-5	0.015	U	0.015	0.049	1
10407	2,4,5-TP	93-72-1	0.0099	U	0.0099	0.049	1
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	
00177	Aldrin	309-00-2	0.0019	U	0.0019	0.0097	1
00177	Alpha BHC	319-84-6	0.0029	U	0.0029	0.0097	1
00177	Beta BHC	319-85-7	0.0028	U	0.0028	0.0097	1
00177	Gamma BHC - Lindane	58-89-9	0.0019	U	0.0019	0.0097	1

*=This limit was used in the evaluation of the final result

Sample Description: **EB-SA5DS-SS-092811 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA5DS-SS-092811

LLI Sample # WW 6422547
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:00

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5721 SDG#: DE257-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/l**	**ug/l**	**ug/l**	
00177	Chlordane	57-74-9	0.12 U	0.12	0.49	1
00177	p,p-DDD	72-54-8	0.0049 U	0.0049	0.019	1
00177	p,p-DDE	72-55-9	0.0049 U	0.0049	0.019	1
00177	p,p-DDT	50-29-3	0.0049 U	0.0049	0.019	1
00177	Delta BHC	319-86-8	0.0028 U	0.0028	0.0097	1
00177	Dieldrin	60-57-1	0.0052 U	0.0052	0.019	1
00177	Endosulfan I	959-98-8	0.0042 U	0.0042	0.0097	1
00177	Endosulfan II	33213-65-9	0.015 U	0.015	0.019	1
00177	Endosulfan Sulfate	1031-07-8	0.0056 U	0.0056	0.019	1
00177	Endrin	72-20-8	0.0079 U	0.0079	0.019	1
00177	Endrin Aldehyde	7421-93-4	0.019 U	0.019	0.097	1
00177	Endrin Ketone	53494-70-5	0.0049 U	0.0049	0.019	1
00177	Heptachlor	76-44-8	0.0025 U	0.0025	0.0097	1
00177	Heptachlor Epoxide	1024-57-3	0.0022 U	0.0022	0.0097	1
00177	Methoxychlor	72-43-5	0.029 U	0.029	0.097	1
00177	Mirex	2385-85-5	0.082 U	0.082	0.24	1
00177	Toxaphene	8001-35-2	0.97 U	0.97	2.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.097 U	0.097	0.49	1
10227	Aroclor 5442	12642-23-8	0.097 U	0.097	0.49	1
10227	Aroclor 5460	11126-42-4	0.097 U	0.097	0.49	1
10227	PCB-1016	12674-11-2	0.097 U	0.097	0.49	1
10227	PCB-1221	11104-28-2	0.097 U	0.097	0.49	1
10227	PCB-1232	11141-16-5	0.19 U	0.19	0.49	1
10227	PCB-1242	53469-21-9	0.097 U	0.097	0.49	1
10227	PCB-1248	12672-29-6	0.097 U	0.097	0.49	1
10227	PCB-1254	11097-69-1	0.097 U	0.097	0.49	1
10227	PCB-1260	11096-82-5	0.15 U	0.15	0.49	1
10227	PCB-1262	37324-23-5	0.19 U	0.19	0.49	1
10227	PCB-1268	11100-14-4	0.16 U	0.16	0.49	1
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0801 U	0.0801	0.200	1
08014	Boron	7440-42-8	0.0025 J	0.0022	0.0500	1
01750	Calcium	7440-70-2	0.0705 U	0.0705	0.200	1
01754	Iron	7439-89-6	0.0141 U	0.0141	0.200	1
01756	Lithium	7439-93-2	0.0076 U	0.0076	0.0200	1
01757	Magnesium	7439-95-4	0.0067 U	0.0067	0.100	1
07058	Manganese	7439-96-5	0.00044 U	0.00044	0.0050	1
10143	Phosphorus	7723-14-0	0.0105 J	0.0047	0.100	1
01762	Potassium	7440-09-7	0.0874 U	0.0874	0.500	1
01767	Sodium	7440-23-5	0.0647 U	0.0647	1.00	1
08068	Strontium	7440-24-6	0.00022 U	0.00022	0.0050	1
07069	Tin	7440-31-5	0.0043 U	0.0043	0.0200	1
07070	Titanium	7440-32-6	0.00046 U	0.00046	0.0100	1
10144	Zirconium	7440-67-7	0.0042 U	0.0042	0.0500	1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA5DS-SS-092811 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA5DS-SS-092811

LLI Sample # WW 6422547
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:00

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5721 SDG#: DE257-21EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00042 U	0.00042	0.0010	1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020	1
06026	Barium	7440-39-3	0.00069 U	0.00069	0.0020	1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050	1
06028	Cadmium	7440-43-9	0.00022 J	0.00020	0.00050	1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020	1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050	1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020	1
06035	Lead	7439-92-1	0.0026	0.000080	0.0010	1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050	1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020	1
06041	Selenium	7782-49-2	0.00027 U	0.00027	0.0020	1
06042	Silver	7440-22-4	0.000098 U	0.000098	0.00050	1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050	1
06048	Vanadium	7440-62-2	0.00018 U	0.00018	0.00050	1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150	1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000045 J	0.000026	0.00020	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10	1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0	1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0	1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	
00200	17b pH by 9040B	n.a.	5.3	0.010	0.010	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11276WAC026	10/05/2011 15:38	Linda M Hartenstine	1

*=This limit was used in the evaluation of the final result

Sample Description: **EB-SA5DS-SS-092811 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA5DS-SS-092811

LLI Sample # WW 6422547
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:00

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5721 SDG#: DE257-21EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11274WAB026	10/11/2011 22:34	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11276WAC026	10/04/2011 09:40	Denise L Trimby	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11274WAB026	10/02/2011 20:00	Elaine F Stoltzfus	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	112720023A	10/02/2011 00:59	Michele D Hamilton	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	112740024A	10/05/2011 21:23	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	112740023A	10/04/2011 20:50	Jessica L Miller	1
11117	PCB Waters Extraction	SW-846 3510C	1	112740023A	10/04/2011 02:30	Sherry L Morrow	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	112740024A	10/04/2011 02:30	Sherry L Morrow	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	112720023A	09/30/2011 02:45	Roman Kuropatkin	1
01743	Aluminum	SW-846 6010B	1	112781848003	10/09/2011 23:55	Tara L Snyder	1
08014	Boron	SW-846 6010B	1	112781848003	10/09/2011 23:55	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	112781848003	10/09/2011 23:55	Tara L Snyder	1
01754	Iron	SW-846 6010B	1	112781848003	10/09/2011 23:55	Tara L Snyder	1
01756	Lithium	SW-846 6010B	1	112781848003	10/09/2011 23:55	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	112781848003	10/09/2011 23:55	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	112781848003	10/09/2011 23:55	Tara L Snyder	1
10143	Phosphorus	SW-846 6010B	1	112781848003	10/09/2011 23:55	Tara L Snyder	1
01762	Potassium	SW-846 6010B	1	112781848003	10/09/2011 23:55	Tara L Snyder	1
01767	Sodium	SW-846 6010B	1	112781848003	10/09/2011 23:55	Tara L Snyder	1
08068	Strontium	SW-846 6010B	1	112781848003	10/09/2011 23:55	Tara L Snyder	1
07069	Tin	SW-846 6010B	1	112781848003	10/09/2011 23:55	Tara L Snyder	1
07070	Titanium	SW-846 6010B	1	112781848003	10/09/2011 23:55	Tara L Snyder	1
10144	Zirconium	SW-846 6010B	1	112781848003	10/09/2011 23:55	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	112786050001A	10/06/2011 08:14	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	112786050001A	10/06/2011 08:14	Choon Y Tian	1
06026	Barium	SW-846 6020	1	112786050001D	10/06/2011 08:14	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	112786050001A	10/06/2011 08:14	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	112786050001A	10/06/2011 08:14	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	112786050001A	10/06/2011 08:14	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	112786050001A	10/06/2011 08:14	Choon Y Tian	1
06033	Copper	SW-846 6020	1	112786050001A	10/06/2011 08:14	Choon Y Tian	1
06035	Lead	SW-846 6020	1	112786050001A	10/06/2011 08:14	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	112786050001C	10/06/2011 08:14	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	112786050001A	10/06/2011 08:14	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	112786050001B	10/06/2011 08:14	Choon Y Tian	1
06042	Silver	SW-846 6020	1	112786050001A	10/06/2011 08:14	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	112786050001A	10/06/2011 08:14	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	112786050001A	10/06/2011 08:14	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	112786050001A	10/06/2011 08:14	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	112785713001	10/06/2011 09:05	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	112781848003	10/05/2011 12:07	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	112786050001	10/05/2011 12:13	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	112785713001	10/05/2011 14:54	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB-SA5DS-SS-092811 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA5DS-SS-092811

LLI Sample # WW 6422547
LLI Group # 1268901
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:00

Submitted: 09/29/2011 09:05
Reported: 11/03/2011 14:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5721 SDG#: DE257-21EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11279196902C	10/06/2011 23:24	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11272281101A	09/29/2011 11:53	Elyse P Brunstetter	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11272281401A	09/29/2011 12:05	Elyse P Brunstetter	1
00200	17b pH by 9040B	SW-846 9040B	1	11273020001A	09/30/2011 17:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268901
Reported: 11/03/11 at 02:54 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B112771AA	Sample number(s): 6422525									
Acetone	6.7	U	6.7	8.0	ug/kg	114	115	32-209	1	30
Benzene	0.10	U	0.10	4.0	ug/kg	94	106	80-120	12	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	93	103	79-120	10	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	94	101	79-124	7	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	90	99	78-120	9	30
Bromoform	0.40	U	0.40	4.0	ug/kg	97	103	70-120	6	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	72	83	32-162	14	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	111	110	46-153	1	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	97	113	72-120	16	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	95	110	75-120	14	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	91	106	75-120	15	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	88	101	69-122	13	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	96	107	80-120	11	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	66	79	37-154	18	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	93	100	43-146	8	30
Chloroform	0.20	J	0.12	4.0	ug/kg	93	103	80-120	11	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	78	93	54-132	17	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	94	104	78-120	10	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	95	108	79-120	13	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	68	65	22-131	4	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	104	105	58-120	1	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	98	104	77-120	6	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	100	108	80-120	7	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	97	102	80-120	5	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	98	107	79-120	9	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	92	103	78-120	11	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	93	104	79-120	11	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	80	94	20-120	16	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	94	106	80-120	12	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	97	103	71-129	7	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	101	119	73-123	16	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	93	104	80-120	11	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	94	111	79-120	17	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	93	104	80-120	11	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	101	110	80-120	8	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	86	99	72-123	14	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	92	106	77-120	14	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	89	98	80-120	9	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	93	102	77-120	10	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	96	109	80-120	13	30
Freon 113	0.11	U	0.11	4.0	ug/kg	109	127*	61-126	15	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	114	109	78-120	4	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	88	107	57-120	19	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	115	114	45-155	1	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	96	109	76-120	13	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268901
Reported: 11/03/11 at 02:54 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	95	110	75-120	15	30
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	99	106	74-121	7	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	117	119	61-134	2	30
Methylene Chloride	0.57	J	0.24	4.0	ug/kg	99	112	76-124	13	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	97	111	77-120	13	30
Styrene	0.10	U	0.10	4.0	ug/kg	97	109	76-120	11	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	94	103	80-120	10	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	102	105	71-123	3	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	96	108	77-120	12	30
Toluene	0.08	U	0.08	4.0	ug/kg	96	108	80-120	12	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	94	103	64-120	9	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	93	103	68-120	11	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	89	99	71-125	11	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	101	106	80-120	5	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	91	103	80-120	12	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	84	97	58-133	15	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	100	105	71-123	4	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	96	109	79-120	12	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	95	109	78-120	14	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	82	97	53-120	16	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	98	110	80-120	12	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	96	108	80-120	12	30
Batch number: E112722AA	Sample number(s): 6422528									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	105		80-123		
Batch number: E112732AA	Sample number(s): 6422525									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	98	100	70-130	2	30
Batch number: Y112722AA	Sample number(s): 6422528									
Acetone	6	U	6.	20	ug/l	133	112	49-234	17	30
Benzene	0.5	U	0.5	5	ug/l	101	100	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	106	102	80-120	3	30
Bromochloromethane	1	U	1.	5	ug/l	106	101	80-120	4	30
Bromodichloromethane	1	U	1.	5	ug/l	98	95	80-120	4	30
Bromoform	1	U	1.	5	ug/l	93	90	61-120	3	30
Bromomethane	1	U	1.	5	ug/l	77	77	44-120	0	30
2-Butanone	3	U	3.	10	ug/l	111	103	66-151	7	30
n-Butylbenzene	1	U	1.	5	ug/l	105	101	74-120	3	30
sec-Butylbenzene	1	U	1.	5	ug/l	109	106	78-120	3	30
tert-Butylbenzene	1	U	1.	5	ug/l	105	101	80-120	4	30
Carbon Tetrachloride	1	U	1.	5	ug/l	98	96	75-123	3	30
Chlorobenzene	0.8	U	0.8	5	ug/l	106	102	80-120	4	30
Chloroethane	1	U	1.	5	ug/l	72	72	49-129	0	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	111	109	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	101	100	77-122	2	30
Chloromethane	1	U	1.	5	ug/l	84	81	60-129	4	30
2-Chlorotoluene	1	U	1.	5	ug/l	106	102	80-120	4	30
4-Chlorotoluene	1	U	1.	5	ug/l	106	102	80-120	5	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	56	57	38-136	2	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	97	90	56-126	8	30
Dibromochloromethane	1	U	1.	5	ug/l	98	93	80-120	5	30
1,2-Dibromoethane	1	U	1.	5	ug/l	103	99	80-120	4	30
Dibromomethane	1	U	1.	5	ug/l	101	99	80-120	3	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	106	103	80-120	3	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	107	103	80-120	3	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	106	102	80-120	4	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	72	69	47-120	4	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268901
Reported: 11/03/11 at 02:54 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,1-Dichloroethane	1	U	1.	5	ug/l	99	97	79-120	2	30
1,2-Dichloroethane	1	U	1.	5	ug/l	99	94	70-130	6	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	87	85	74-123	2	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	102	101	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	99	97	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	102	99	78-120	3	30
1,3-Dichloropropane	1	U	1.	5	ug/l	102	99	80-120	3	30
2,2-Dichloropropane	1	U	1.	5	ug/l	100	97	77-124	3	30
1,1-Dichloropropene	1	U	1.	5	ug/l	99	97	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	98	95	80-120	4	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	98	95	79-120	2	30
Ethylbenzene	0.8	U	0.8	5	ug/l	105	102	79-120	3	30
Freon 113	2	U	2.	10	ug/l	89	88	69-128	2	30
Freon 133a	2	U	2.	5	ug/l	77	78	77-120	1	30
Hexachlorobutadiene	2	U	2.	5	ug/l	100	97	58-120	3	30
2-Hexanone	3	U	3.	10	ug/l	101	97	65-136	4	30
Isopropylbenzene	1	U	1.	5	ug/l	108	105	77-120	3	30
p-Isopropyltoluene	1	U	1.	5	ug/l	107	104	80-120	3	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	99	96	76-120	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	96	93	70-121	3	30
Methylene Chloride	2	U	2.	5	ug/l	92	97	80-120	5	30
n-Propylbenzene	1	U	1.	5	ug/l	105	101	80-120	3	30
Styrene	1	U	1.	5	ug/l	107	104	80-120	3	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	103	100	80-120	4	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	102	98	71-120	4	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	104	102	80-121	2	30
Toluene	0.7	U	0.7	5	ug/l	104	101	79-120	3	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	104	100	65-120	4	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	106	102	67-120	4	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	98	97	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	105	102	80-120	3	30
Trichloroethene	1	U	1.	5	ug/l	102	100	80-120	3	30
Trichlorofluoromethane	2	U	2.	5	ug/l	86	84	64-129	3	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	102	98	80-120	4	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	108	104	74-120	3	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	108	103	75-120	4	30
Vinyl Chloride	1	U	1.	5	ug/l	83	81	65-125	2	30
m+p-Xylene	0.8	U	0.8	5	ug/l	106	102	80-120	3	30
o-Xylene	0.8	U	0.8	5	ug/l	105	102	80-120	3	30
Batch number: 11274WAB026	Sample number(s): 6422547									
Acenaphthene	0.010	U	0.010	0.050	ug/l	99	103	74-109	3	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	97	98	70-110	1	30
Anthracene	0.010	U	0.010	0.050	ug/l	100	101	66-111	1	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	100	100	72-114	0	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	99	101	60-127	1	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	102	104	58-151	2	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	102	103	57-131	1	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	104	104	59-130	0	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	104	105	40-138	1	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	104	105	56-148	1	30
Chrysene	0.010	U	0.010	0.050	ug/l	100	100	76-116	0	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	105	105	55-134	1	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	102	103	37-148	1	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	103	103	40-119	1	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	115	116	57-154	1	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	101	101	75-116	0	30
Fluorene	0.010	U	0.010	0.050	ug/l	104	104	75-114	0	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268901
Reported: 11/03/11 at 02:54 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	103	104	53-158	1	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	94	94	71-117	0	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	93	93	75-115	0	30
Naphthalene	0.030	U	0.030	0.050	ug/l	95	96	72-109	0	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	57	55	36-89	4	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	107	109	57-145	3	30
Phenanthrene	0.030	U	0.030	0.050	ug/l	97	96	76-111	1	30
Pyrene	0.010	U	0.010	0.050	ug/l	98	99	69-118	1	30
Batch number: 11276WAC026	Sample number(s): 6422547									
Aniline	1	U	1.	5	ug/l	88	86	38-116	3	30
Benzidine	20	U	20.	60	ug/l	57	60	34-117	5	30
Benzoic acid	6	U	6.	15	ug/l	43	18	10-69	82*	30
Benzyl alcohol	5	U	5.	15	ug/l	94	90	66-97	5	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	108	96	75-115	13	30
Carbazole	1	U	1.	5	ug/l	113	102	75-120	11	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	113	102	70-123	10	30
4-Chloroaniline	1	U	1.	5	ug/l	76	82	24-128	7	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	108	96	74-124	11	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	109*	100	77-108	8	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	100	93	62-127	7	30
2-Chloronaphthalene	2	U	2.	5	ug/l	108	94	54-132	13	30
2-Chlorophenol	1	U	1.	5	ug/l	107	102	71-114	5	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	103	93	77-114	10	30
Dibenzofuran	1	U	1.	5	ug/l	108	95	75-117	13	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	102	98	55-118	5	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	103	97	61-111	5	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	98	94	53-119	4	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	75	78	37-117	4	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	109	101	77-117	8	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	109	99	72-110	9	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	109	97	70-130	12	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	108	97	65-126	10	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	102	91	52-131	11	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	110	99	76-119	10	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	116	106	76-118	9	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	117	104	68-127	12	30
Hexachlorobenzene	1	U	1.	5	ug/l	104	92	75-119	13	30
Hexachlorobutadiene	1	U	1.	5	ug/l	99	89	57-124	10	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	90	78	36-118	14	30
Hexachloroethane	1	U	1.	5	ug/l	103	97	52-113	5	30
Isophorone	1	U	1.	5	ug/l	111	99	74-117	12	30
2-Methylphenol	1	U	1.	5	ug/l	103	96	58-110	7	30
4-Methylphenol	2	U	2.	5	ug/l	96	91	49-108	5	30
2-Nitroaniline	1	U	1.	5	ug/l	106	95	75-120	10	30
3-Nitroaniline	1	U	1.	5	ug/l	102	98	74-113	4	30
4-Nitroaniline	1	U	1.	5	ug/l	75	71	59-100	5	30
Nitrobenzene	1	U	1.	5	ug/l	111*	102	75-109	9	30
2-Nitrophenol	1	U	1.	5	ug/l	115	106	76-118	9	30
4-Nitrophenol	10	U	10.	30	ug/l	53	50	16-78	7	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	102	93	69-110	9	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	115	101	67-136	13	30
Pentachlorophenol	3	U	3.	15	ug/l	100	96	53-110	4	30
Phenol	1	U	1.	5	ug/l	53	50	21-67	6	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	103	95	71-112	8	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	107	96	79-107	12	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	117	101	76-120	14	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268901
Reported: 11/03/11 at 02:54 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11280SLB026	Sample number(s): 6422522-6422524,6422526-6422527									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	80		70-130		
Batch number: 11281SLA026	Sample number(s): 6422522-6422524,6422526-6422527,6422529-6422541,6422545-6422546									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	91		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	85		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	89		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	91		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	91		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	96		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	101		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	93		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	117		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	104		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	91		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	102		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	92		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	93		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	121		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	94		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	90		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	100		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	81		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	80		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	81		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	80		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	121		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	87		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	92		72-119		
Batch number: 11283SLA026	Sample number(s): 6422522-6422524,6422526-6422527,6422529-6422541,6422545-6422546									
Acenaphthene	17	U	17.	170	ug/kg	96		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	106		75-122		
Aniline	170 U		170.	500	ug/kg	72		20-115		
Anthracene	17	U	17.	170	ug/kg	103		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	45		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	104		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	104		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	107		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	102		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	105		67-125		
Benzoic acid	170 U		170.	500	ug/kg	104		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	95		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	101		73-114		
2-butoxy-Ethanol	1,700 U		1,700.	1,700	ug/kg					
Butylbenzylphthalate	17	U	17.	170	ug/kg	100		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	103		79-112		
Carbazole	17	U	17.	170	ug/kg	99		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	101		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	48		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	96		70-118		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268901
Reported: 11/03/11 at 02:54 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	92		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	91		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	88		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	97		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	99		74-115		
Chrysene	17	U	17.	170	ug/kg	93		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	105		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	95		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	89		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	87		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	88		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	41		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	101		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	103		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	98		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	108		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	101		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	79		46-120		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	73		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	102		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	105		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	98		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	104		75-117		
Fluoranthene	17	U	17.	170	ug/kg	106		78-116		
Fluorene	17	U	17.	170	ug/kg	102		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	100		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	94		65-117		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	102		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	87		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	104		64-119		
Isophorone	17	U	17.	170	ug/kg	97		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	94		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	97		69-109		
2-Methylphenol	33	U	33.	170	ug/kg	99		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	95		66-117		
Naphthalene	17	U	17.	170	ug/kg	92		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	104		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	100		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	75		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	95		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	99		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	85		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	92		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	86		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	101		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	110		62-137		
Pentachlorophenol	170	U	170.	500	ug/kg	97		51-117		
Phenanthrene	17	U	17.	170	ug/kg	96		77-113		
Phenol	17	U	17.	170	ug/kg	95		58-112		
2-phenoxy-Ethanol	1,700	U	1,700.	1,700	ug/kg					
Pyrene	17	U	17.	170	ug/kg	97		75-115		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268901
Reported: 11/03/11 at 02:54 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Tetralin	170 U		170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	93		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	103		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	106		78-111		
Batch number: 11274A34A	Sample number(s): 6422522-6422527									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	71		67-119		
Batch number: 11279A20A	Sample number(s): 6422528									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	100	75-135	0	30
Batch number: 112740006A	Sample number(s): 6422522-6422524,6422526-6422527									
20a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	108		80-126		
Batch number: 112720023A	Sample number(s): 6422547									
2,4-D	0.16	U	0.16	0.50	ug/l	96	88	73-157	9	30
Dalapon	0.25	U	0.25	1.3	ug/l	92	79	40-100	15	30
2,4-DB	0.30	U	0.30	1.0	ug/l	88	80	65-130	10	30
Dicamba	0.080	U	0.080	0.30	ug/l	104	100	68-135	4	30
Dinoseb	0.10	U	0.10	0.50	ug/l	77	74	32-91	3	30
2,4-DP (Dichlorprop)	0.16	U	0.16	0.50	ug/l	120	116	76-170	3	30
MCPA	300 U		300.	1,000	ug/l	94	90	65-128	4	30
MCPP	50	U	50.	200	ug/l	120	116	67-137	3	30
2,4,5-T	0.015	U	0.015	0.050	ug/l	72	68	63-147	6	30
2,4,5-TP	0.010	U	0.010	0.050	ug/l	96	92	63-134	4	30
Batch number: 112790018A	Sample number(s): 6422529-6422541,6422543-6422546									
2,4-D	1.2	U	1.2	3.6	ug/kg	96		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	61		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	94		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	87		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	13		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	106		62-170		
MCPA	76	U	76.	250	ug/kg	76		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	97		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	101		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	80		68-114		
Batch number: 112770016A	Sample number(s): 6422522,6422530,6422535,6422545									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	98		85-115		
Batch number: 112740023A	Sample number(s): 6422547									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	72	74	35-84	3	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	98	98	51-128	0	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	102	106	56-135	4	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268901
Reported: 11/03/11 at 02:54 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 112740024A	Sample number(s): 6422547								
Aldrin	0.0020 U	0.0020	0.010	ug/l	92	94	54-159	2	30
Alpha BHC	0.0030 U	0.0030	0.010	ug/l	93	96	59-146	3	30
Beta BHC	0.0029 U	0.0029	0.010	ug/l	99	103	73-147	4	30
Gamma BHC - Lindane	0.0020 U	0.0020	0.010	ug/l	94	98	68-128	4	30
Chlordane	0.12 U	0.12	0.50	ug/l					
p,p-DDD	0.0050 U	0.0050	0.020	ug/l	105	105	71-139	0	30
p,p-DDE	0.0050 U	0.0050	0.020	ug/l	105	111	66-130	5	30
p,p-DDT	0.0050 U	0.0050	0.020	ug/l	95	100	53-126	5	30
Delta BHC	0.0029 U	0.0029	0.010	ug/l	103	103	76-148	0	30
Dieldrin	0.0053 U	0.0053	0.020	ug/l	95	100	76-132	5	30
Endosulfan I	0.0043 U	0.0043	0.010	ug/l	79	82	68-128	4	30
Endosulfan II	0.015 U	0.015	0.020	ug/l	85	90	59-144	6	30
Endosulfan Sulfate	0.0058 U	0.0058	0.020	ug/l	90	95	71-142	5	30
Endrin	0.0081 U	0.0081	0.020	ug/l	75	95	52-132	24	30
Endrin Aldehyde	0.020 U	0.020	0.10	ug/l	85	90	68-139	6	20
Endrin Ketone	0.0050 U	0.0050	0.020	ug/l	100	95	69-146	5	30
Heptachlor	0.0026 U	0.0026	0.010	ug/l	91	94	57-126	3	30
Heptachlor Epoxide	0.0023 U	0.0023	0.010	ug/l	99	102	73-156	3	30
Methoxychlor	0.030 U	0.030	0.10	ug/l	93	100	52-133	7	30
Mirex	0.085 U	0.085	0.25	ug/l					
Toxaphene	1.0 U	1.0	3.0	ug/l					
Batch number: 112800017A	Sample number(s): 6422529-6422541,6422543-6422546								
Aldrin	0.066 U	0.066	0.17	ug/kg	88		44-135		
Alpha BHC	0.034 U	0.034	0.17	ug/kg	79		38-130		
Beta BHC	0.060 U	0.060	0.17	ug/kg	109		56-134		
Gamma BHC - Lindane	0.034 U	0.034	0.17	ug/kg	85		46-127		
Chlordane	0.80 U	0.80	3.4	ug/kg					
p,p-DDD	0.066 U	0.066	0.34	ug/kg	116		60-137		
p,p-DDE	0.066 U	0.066	0.34	ug/kg	117		59-141		
p,p-DDT	0.066 U	0.066	0.34	ug/kg	117		54-130		
Delta BHC	0.036 U	0.036	0.17	ug/kg	103		55-144		
Dieldrin	0.066 U	0.066	0.34	ug/kg	106		65-129		
Endosulfan I	0.044 U	0.044	0.17	ug/kg	71		45-123		
Endosulfan II	0.066 U	0.066	0.34	ug/kg	91		63-127		
Endosulfan Sulfate	0.066 U	0.066	0.34	ug/kg	118		72-138		
Endrin	0.066 U	0.066	0.34	ug/kg	100		62-129		
Endrin Aldehyde	0.066 U	0.066	0.34	ug/kg	92		55-132		
Endrin Ketone	0.066 U	0.066	0.34	ug/kg	112		69-139		
Heptachlor	0.060 U	0.060	0.17	ug/kg	88		43-124		
Heptachlor Epoxide	0.034 U	0.034	0.17	ug/kg	97		65-131		
Methoxychlor	0.34 U	0.34	1.7	ug/kg	119		59-125		
Mirex	0.066 U	0.066	0.34	ug/kg					
Toxaphene	2.2 U	2.2	6.6	ug/kg					
Batch number: 112800018A	Sample number(s): 6422522-6422524,6422526-6422527,6422529-6422541,6422543-6422546								
Aroclor 5432	1.0 U	1.0	3.3	ug/kg					
Aroclor 5442	1.0 U	1.0	3.3	ug/kg	104	86	36-106	20	30
Aroclor 5460	1.0 U	1.0	3.3	ug/kg					
PCB-1016	0.33 U	0.33	1.7	ug/kg	109		72-120		
PCB-1221	0.33 U	0.33	1.7	ug/kg					
PCB-1232	0.33 U	0.33	1.7	ug/kg					
PCB-1242	0.33 U	0.33	1.7	ug/kg					
PCB-1248	0.33 U	0.33	1.7	ug/kg					
PCB-1254	0.33 U	0.33	1.7	ug/kg					
PCB-1260	0.39 U	0.39	1.7	ug/kg	121		65-137		

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268901
Reported: 11/03/11 at 02:54 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112730032A	Sample number(s): 6422522-6422524,6422526-6422527									
Ethanol	100 U		100.	500	ug/kg	99		71-129		
Isopropanol	100 U		100.	500	ug/kg	95		75-125		
Methanol	100 U		100.	500	ug/kg	98		68-129		
Batch number: 112790048A	Sample number(s): 6422522-6422524,6422526-6422527									
Diethylene glycol	5.0	U	5.0	10	mg/kg	94		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	96		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	84		67-131		
Batch number: 112790036A	Sample number(s): 6422522-6422524,6422526-6422527									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	101		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	106		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	103		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	102		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	87		49-107		
Batch number: 112790037A	Sample number(s): 6422522-6422524,6422526-6422527									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	100		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		69-109		
Batch number: 112721026002A	Sample number(s): 6422522-6422524,6422526-6422527,6422529-6422542,6422545-6422546									
Antimony	0.0740	U	0.0740	0.200	mg/kg	106		10-224		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	109		78-122		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	105		80-120		
Cadmium	0.0440	U	0.0440	0.100	mg/kg	111		81-119		
Chromium	0.120	U	0.120	0.400	mg/kg	117		77-123		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	105		80-119		
Copper	0.0800	U	0.0800	0.400	mg/kg	109		78-122		
Lead	0.0226	J	0.0102	0.200	mg/kg	105		77-123		
Nickel	0.100	U	0.100	0.400	mg/kg	115		80-120		
Silver	0.0142	U	0.0142	0.100	mg/kg	111		66-134		
Thallium	0.0300	U	0.0300	0.100	mg/kg	104		75-124		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	119		76-124		
Zinc	0.560	U	0.560	3.00	mg/kg	112		79-121		
Batch number: 112721026002B	Sample number(s): 6422522-6422524,6422526-6422527,6422529-6422542,6422545-6422546									
Selenium	0.0580	U	0.0580	0.400	mg/kg	117		77-123		
Batch number: 112721026002C	Sample number(s): 6422522-6422524,6422526-6422527,6422529-6422542,6422545-6422546									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	115		76-123		
Batch number: 112721026002D	Sample number(s): 6422522-6422524,6422526-6422527,6422529-6422542,6422545-6422546									
Barium	0.106	U	0.106	0.400	mg/kg	109		80-120		
Batch number: 112725708002	Sample number(s): 6422522-6422524,6422526-6422527,6422529-6422542,6422545-6422546									

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268901
Reported: 11/03/11 at 02:54 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Aluminum	10.2 J	6.05	20.0	mg/kg	145		42-158		
Boron	0.529 J	0.360	5.00	mg/kg	109		66-134		
Calcium	41.1	2.50	20.0	mg/kg	107		79-121		
Iron	24.7	2.61	20.0	mg/kg	133		51-149		
Lithium	0.62 U	0.62	2.0	mg/kg	100		80-120		
Magnesium	31.2	0.440	10.0	mg/kg	122		64-136		
Manganese	0.174 J	0.0360	0.500	mg/kg	100		78-122		
Phosphorus	1.50 J	0.350	10.0	mg/kg	104		80-120		
Potassium	11.5 J	11.3	50.0	mg/kg	115		69-131		
Sodium	5.95 U	5.95	100	mg/kg	109		71-129		
Strontium	0.0670 J	0.0250	0.500	mg/kg	103		81-119		
Tin	1.53 J	0.320	10.0	mg/kg	97		74-126		
Titanium	0.112 J	0.0710	1.00	mg/kg	88		80-120		
Zirconium	0.460 U	0.460	5.00	mg/kg	104		80-120		
Batch number: 112725711003	Sample number(s): 6422522-6422524,6422526-6422527,6422529-6422542,6422545-6422546								
Mercury	0.0067 U	0.0067	0.0958	mg/kg	94		72-128		
Batch number: 112781848003	Sample number(s): 6422547								
Aluminum	0.0801 U	0.0801	0.200	mg/l	99	97	90-112	1	20
Boron	0.0022 U	0.0022	0.0500	mg/l	94	94	89-110	1	20
Calcium	0.0705 U	0.0705	0.200	mg/l	103	103	90-110	0	20
Iron	0.0141 U	0.0141	0.200	mg/l	99	99	90-112	0	20
Lithium	0.0076 U	0.0076	0.0200	mg/l	98	98	90-110	0	20
Magnesium	0.0067 U	0.0067	0.100	mg/l	100	100	90-110	0	20
Manganese	0.00044 U	0.00044	0.0050	mg/l	102	101	90-110	0	20
Phosphorus	0.0047 U	0.0047	0.100	mg/l	98	98	90-110	0	20
Potassium	0.0874 U	0.0874	0.500	mg/l	101	101	85-115	0	20
Sodium	0.0647 U	0.0647	1.00	mg/l	96	95	87-114	1	20
Strontium	0.00022 J	0.00022	0.0050	mg/l	100	99	90-110	1	20
Tin	0.0043 U	0.0043	0.0200	mg/l	98	98	90-110	1	20
Titanium	0.00046 U	0.00046	0.0100	mg/l	101	99	90-113	1	20
Zirconium	0.0042 U	0.0042	0.0500	mg/l	101	101	90-110	1	20
Batch number: 112785713001	Sample number(s): 6422547								
Mercury	0.000042 J	0.00002 6	0.00020	mg/l	102	107	80-120	5	20
Batch number: 112786050001A	Sample number(s): 6422547								
Antimony	0.00042 U	0.00042	0.0010	mg/l	108	107	87-110	0	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	109	102	86-111	7	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	107	106	90-113	0	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	105	105	90-114	0	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	106	105	90-118	1	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	101	102	87-113	2	20
Copper	0.00038 U	0.00038	0.0020	mg/l	107	107	90-113	0	20
Lead	0.000080 U	0.00008 0	0.0010	mg/l	102	106	90-115	3	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	105	107	90-113	1	20
Silver	0.000098 U	0.00009 8	0.00050	mg/l	107	108	90-115	1	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	97	105	89-116	7	20
Vanadium	0.00018 U	0.00018	0.00050	mg/l	103	104	89-116	2	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	106	104	90-116	2	20
Batch number: 112786050001B	Sample number(s): 6422547								
Selenium	0.00027 U	0.00027	0.0020	mg/l	110	114	85-114	3	20

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268901
Reported: 11/03/11 at 02:54 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 112786050001C	Sample number(s): 6422547								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	106	105	89-115	1	20
Batch number: 112786050001D	Sample number(s): 6422547								
Barium	0.00069 U	0.00069	0.0020	mg/l	108	104	88-113	4	20
Batch number: 11272281101A	Sample number(s): 6422547								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	95	107	85-115	12	20
Batch number: 11272281401A	Sample number(s): 6422547								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	100	100	90-110	0	20
Batch number: 11278621201A	Sample number(s): 6422522-6422524,6422526-6422527,6422529-6422533								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	111		85-115		
Batch number: 11278621201B	Sample number(s): 6422534-6422540,6422542,6422545-6422546								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	111		85-115		
Batch number: 11279196902C	Sample number(s): 6422547								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	90	90	90-110	1	20
Batch number: 11283243202A	Sample number(s): 6422522-6422524,6422526-6422527,6422529-6422540,6422542,6422545-6422546								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	88		80-120		
Batch number: 11285285201A	Sample number(s): 6422522-6422524,6422526-6422527,6422529-6422533								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	98		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	101		90-110		
Batch number: 11285285201B	Sample number(s): 6422534-6422540,6422542,6422545-6422546								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	98		90-110		
Batch number: 11273020001A	Sample number(s): 6422547								
17b pH by 9040B					100	100	90-110	0	3
Batch number: 11285039401A	Sample number(s): 6422522-6422524,6422526-6422527,6422529-6422532								
17a pH by 9045C					100		95-105		
Batch number: 11285039401B	Sample number(s): 6422533-6422539,6422542,6422545-6422546								
17a pH by 9045C					100		95-105		
Batch number: 11278162402A	Sample number(s): 6422522-6422527,6422529-6422531								
Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Batch number: 11278162402B	Sample number(s): 6422532-6422543,6422545								
28a Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Batch number: 11279162401A	Sample number(s): 6422546								
Moisture Content by 160.3					100		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268901
Reported: 11/03/11 at 02:54 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: E112722AA	Sample number(s): 6422528 UNSPK: P422276								
1,4-Dioxane	135	134	73-138	0	30				
Batch number: 11280SLB026	Sample number(s): 6422522-6422524,6422526-6422527 UNSPK: P421299								
N-Nitrosodimethylamine	134*	100	70-130	29	30				
Batch number: 11281SLA026	Sample number(s): 6422522-6422524,6422526-6422527,6422529-6422541,6422545-6422546 UNSPK: 6422539								
Acenaphthene	84	84	63-105	0	30				
Acenaphthylene	83	82	67-114	1	30				
Anthracene	89	87	73-115	2	30				
Benzo(a)anthracene	89	85	59-128	4	30				
Benzo(a)pyrene	90	88	58-142	2	30				
Benzo(b)fluoranthene	93	91	54-163	2	30				
Benzo(g,h,i)perylene	61	59	33-141	3	30				
Benzo(k)fluoranthene	91	92	57-153	1	30				
Butylbenzylphthalate	107	102	57-173	5	30				
Di-n-butylphthalate	108	104	65-148	4	30				
Chrysene	89	85	67-123	5	30				
Dibenz(a,h)anthracene	69	68	22-133	1	30				
Diethylphthalate	97	95	70-136	2	30				
Dimethylphthalate	93	92	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	133	119	39-167	11	30				
Fluoranthene	93	91	51-149	2	30				
Fluorene	90	87	66-122	3	30				
Indeno(1,2,3-cd)pyrene	68	67	21-143	2	30				
1-Methylnaphthalene	80	80	72-123	0	30				
2-Methylnaphthalene	80	79	64-103	1	30				
Naphthalene	81	81	61-102	1	30				
N-Nitrosodimethylamine	79	74	48-113	6	30				
Di-n-octylphthalate	110	103	40-192	6	30				
Phenanthrene	87	84	62-122	3	30				
Pyrene	87	84	51-131	4	30				
Batch number: 11283SLA026	Sample number(s): 6422522-6422524,6422526-6422527,6422529-6422541,6422545-6422546 UNSPK: 6422539								
Acenaphthene	92	95	75-115	4	30				
Acenaphthylene	102	105	81-110	3	30				
Aniline	63	66	18-116	5	30				
Anthracene	99	103	75-115	4	30				
Benzidine	14*	0*	35-141	200*	30				
Benzo(a)anthracene	93	97	65-122	4	30				
Benzo(a)pyrene	103	105	57-126	3	30				
Benzo(b)fluoranthene	117	121	59-125	3	30				
Benzo(g,h,i)perylene	99	100	59-127	2	30				
Benzo(k)fluoranthene	94	95	56-132	2	30				
Benzoic acid	26	29	10-173	10	30				
Benzyl alcohol	96	98	67-115	3	30				
4-Bromophenyl-phenylether	101	103	67-129	3	30				
Butylbenzylphthalate	97	100	73-134	3	30				
Di-n-butylphthalate	100	104	67-123	4	30				
Carbazole	93	95	64-120	3	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268901
Reported: 11/03/11 at 02:54 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Chloro-3-methylphenol	102	104	62-122	2	30				
4-Chloroaniline	54	70	13-107	27	30				
bis(2-Chloroethoxy)methane	95	96	75-104	1	30				
bis(2-Chloroethyl)ether	91	93	60-116	3	30				
bis(2-Chloroisopropyl)ether	90	92	55-142	3	30				
2-Chloronaphthalene	68	95	50-141	33*	30				
2-Chlorophenol	97	99	73-121	3	30				
4-Chlorophenyl-phenylether	97	99	80-109	3	30				
Chrysene	83	86	62-128	4	30				
Dibenz(a,h)anthracene	101	105	65-125	4	30				
Dibenzofuran	91	94	71-112	4	30				
1,2-Dichlorobenzene	88	88	66-108	1	30				
1,3-Dichlorobenzene	85	85	63-109	1	30				
1,4-Dichlorobenzene	85	86	58-108	2	30				
3,3'-Dichlorobenzidine	47	58	28-109	22	30				
2,4-Dichlorophenol	100	103	66-123	3	30				
Diethylphthalate	98	101	66-118	3	30				
2,4-Dimethylphenol	97	97	68-118	1	30				
3,5-Dimethylphenol	107	110	71-127	3	30				
Dimethylphthalate	97	99	64-118	2	30				
4,6-Dinitro-2-methylphenol	54	59	11-126	10	30				
2,4-Dinitrophenol	28	31	20-143	12	30				
2,4-Dinitrotoluene	98	100	56-129	3	30				
2,6-Dinitrotoluene	103	105	69-123	2	30				
1,2-Diphenylhydrazine	96	99	71-129	4	30				
bis(2-Ethylhexyl)phthalate	100	103	63-122	3	30				
Fluoranthene	98	100	73-112	3	30				
Fluorene	98	101	63-121	3	30				
Hexachlorobenzene	99	103	77-114	4	30				
Hexachlorobutadiene	92	93	62-120	1	30				
Hexachlorocyclopentadiene	70	72	10-153	3	30				
Hexachloroethane	84	85	57-109	1	30				
Indeno(1,2,3-cd)pyrene	101	104	61-126	3	30				
Isophorone	94	96	73-102	2	30				
1-Methylnaphthalene	92	94	64-122	2	30				
2-Methylnaphthalene	95	96	76-114	1	30				
2-Methylphenol	99	101	75-111	2	30				
4-Methylphenol	95	98	59-123	3	30				
Naphthalene	90	91	72-116	2	30				
2-Nitroaniline	101	105	67-125	3	30				
3-Nitroaniline	96	99	59-122	4	30				
4-Nitroaniline	74	81	41-109	8	30				
Nitrobenzene	91	94	57-125	3	30				
2-Nitrophenol	97	99	56-127	3	30				
4-Nitrophenol	78	80	37-129	3	30				
N-Nitroso-di-n-propylamine	92	93	60-116	2	30				
N-Nitrosodimethylamine	80	83	47-116	5	30				
N-Nitrosodiphenylamine	99	102	71-122	4	30				
Di-n-octylphthalate	121	123	56-126	2	30				
Pentachlorophenol	83	87	28-127	5	30				
Phenanthrene	93	96	65-125	4	30				
Phenol	94	96	58-126	3	30				
Pyrene	94	96	74-126	3	30				

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Quality Control Summary

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Reported: 11/03/11 at 02:54 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2,4-Trichlorobenzene	91	92	72-115	1	30				
2,4,5-Trichlorophenol	99	103	58-129	4	30				
2,4,6-Trichlorophenol	104	107	56-134	3	30				
Batch number: 11274A34A	Sample number(s): 6422522-6422527 UNSPK: P421299								
9a TPH by EPA 8015B Gas C5-C12	77	77	39-118	9	30				
Batch number: 112740006A	Sample number(s): 6422522-6422524,6422526-6422527 UNSPK: P421299								
20a Formaldehyde 8315A	107	109	80-120	2	50				
Batch number: 112790018A	Sample number(s): 6422529-6422541,6422543-6422546 UNSPK: 6422539								
2,4-D	85	18	17-180	131*	35				
Dalapon	47	24	10-125	65*	50				
2,4-DB	131	195	10-201	39	50				
Dicamba	86	92	10-190	7	50				
Dinoseb	13	10	10-46	26	35				
2,4-DP (Dichlorprop)	91	80	33-178	13	50				
MCPA	52	27	10-213	62*	50				
MCPP (Mecoprop)	77	79	10-184	2	50				
2,4,5-T	37	25	10-156	38*	35				
2,4,5-TP	19*	8*	24-141	17	35				
Batch number: 112770016A	Sample number(s): 6422522,6422530,6422535,6422545 UNSPK: P417427								
6a Perchlorate EPA 6850	103	112	80-120	8	20				
Batch number: 112800017A	Sample number(s): 6422529-6422541,6422543-6422546 UNSPK: 6422539								
Aldrin	82	79	16-126	4	50				
Alpha BHC	74	68	10-129	8	50				
Beta BHC	97	94	14-147	3	50				
Gamma BHC - Lindane	75	69	10-140	7	50				
p,p-DDD	107	99	16-163	9	50				
p,p-DDE	90	85	18-161	5	50				
p,p-DDT	89	89	10-176	0	50				
Delta BHC	97	97	23-140	0	50				
Dieldrin	54	50	19-154	8	50				
Endosulfan I	68	65	16-137	4	50				
Endosulfan II	69	66	28-154	5	50				
Endosulfan Sulfate	89	82	21-160	9	50				
Endrin	79	75	11-149	6	50				
Endrin Aldehyde	83	73	10-148	14	35				
Endrin Ketone	85	85	22-165	2	50				
Heptachlor	88	97	13-126	10	50				
Heptachlor Epoxide	97	97	13-157	0	50				
Methoxychlor	57	59	32-147	3	50				
Batch number: 112800018A	Sample number(s): 6422522-6422524,6422526-6422527,6422529-6422541,6422543-6422546 UNSPK: 6422539								
PCB-1016	100	109	29-146	9	50				
PCB-1260	113	128	39-149	12	50				
Batch number: 112730032A	Sample number(s): 6422522-6422524,6422526-6422527 UNSPK: P419519								
Ethanol	88	67	48-130	27*	20				
Isopropanol	84	64	12-149	28*	20				

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Quality Control Summary

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Reported: 11/03/11 at 02:54 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Methanol	87	68	43-138	24*	20				
Batch number: 112790048A	Sample number(s): 6422522-6422524,6422526-6422527 UNSPK: P430028								
Diethylene glycol	28*	34*	59-109	20	20				
Ethylene glycol	58*	61*	63-107	5	20				
Propylene glycol	61*	63	63-107	2	20				
Batch number: 112790036A	Sample number(s): 6422522-6422524,6422526-6422527 UNSPK: P421299								
EFH (C12-C14)	95	101	49-123	5	20				
EFH (C15-C20)	110	91	49-123	13	20				
EFH (C21-C30)	-50*	35*	49-123	22*	20				
EFH (C30 - C40)	-175 (2)	-220 (2)	49-123	6	20				
EFH (C8-C11)	90	87	49-123	5	20				
Batch number: 112790037A	Sample number(s): 6422522-6422524,6422526-6422527 UNSPK: P421299								
m-Terphenyl	91	96	75-125	6	20				
o-Terphenyl	93	99	75-125	6	20				
p-Terphenyl	92	98	75-125	6	20				
Batch number: 112721026002A	Sample number(s): 6422522-6422524,6422526-6422527,6422529-6422542,6422545-6422546 UNSPK: 6422539 BKG: 6422539								
Antimony	61*	61*	75-125	1	20	0.376	0.339	10 (1)	20
Arsenic	145*	122	75-125	5	20	7.10	7.34	3	20
Beryllium	116	111	75-125	2	20	1.11	1.05	5	20
Cadmium	130*	132*	75-125	1	20	0.292	0.297	1 (1)	20
Chromium	111	139*	75-125	5	20	38.4	39.2	2	20
Cobalt	125	129*	75-125	2	20	13.4	13.4	0	20
Copper	127*	128*	75-125	0	20	20.7	20.8	0	20
Lead	127*	141 (2)	75-125	2	20	11.9	11.8	1	20
Nickel	140*	158*	75-125	4	20	26.7	27.7	4	20
Silver	129*	128*	75-125	1	20	0.0466 J	0.0357 J	26* (1)	20
Thallium	129*	123	75-125	3	20	0.415	0.435	5 (1)	20
Vanadium	130 (2)	184 (2)	75-125	6	20	75.8	78.6	4	20
Zinc	135 (2)	119 (2)	75-125	2	20	97.6	97.7	0	20
Batch number: 112721026002B	Sample number(s): 6422522-6422524,6422526-6422527,6422529-6422542,6422545-6422546 UNSPK: 6422539 BKG: 6422539								
Selenium	113	117	75-125	2	20	0.261 J	0.248 J	5 (1)	20
Batch number: 112721026002C	Sample number(s): 6422522-6422524,6422526-6422527,6422529-6422542,6422545-6422546 UNSPK: 6422539 BKG: 6422539								
Molybdenum	132*	132*	75-125	1	20	0.526	0.594	12	20
Batch number: 112721026002D	Sample number(s): 6422522-6422524,6422526-6422527,6422529-6422542,6422545-6422546 UNSPK: 6422539 BKG: 6422539								
Barium	-299 (2)	-318 (2)	75-125	1	20	175	178	2	20
Batch number: 112725708002	Sample number(s): 6422522-6422524,6422526-6422527,6422529-6422542,6422545-6422546 UNSPK: 6422539 BKG: 6422539								
Aluminum	2353 (2)	2665 (2)	75-125	2	20	30,700	29,900	2	20

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Quality Control Summary

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Reported: 11/03/11 at 02:54 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Boron	100	100	84-115	2	20	14.9		14.9		0 (1)	20
Calcium	29 (2)	93 (2)	75-125	3	20	8,840		8,330		6	20
Iron	-314 (2)	1817 (2)	75-125	6	20	35,900		34,900		3	20
Lithium	99	102	82-114	3	20	30.3		29.9		1	20
Magnesium	134 (2)	182 (2)	75-125	1	20	8,490		8,390		1	20
Manganese	84 (2)	100 (2)	75-125	2	20	355		355		0	20
Phosphorus	94 (2)	117 (2)	75-125	4	20	490		502		2	20
Potassium	146 (2)	161 (2)	75-125	3	20	4,780		4,800		1	20
Sodium	97	97	75-125	1	20	96.2	J	95.5	J	1 (1)	20
Strontium	95	96	75-115	2	20	38.6		37.7		3	20
Tin	84	85	80-110	3	20	2.83	J	2.62	J	8 (1)	20
Titanium	412 (2)	508 (2)	75-125	5	20	1,480		1,470		1	20
Zirconium	89	90	81-110	3	20	4.59	J	5.47		17 (1)	20
Batch number: 112725711003	Sample number(s): 6422522-6422524,6422526-6422527,6422529-6422542,6422545-6422546 UNSPK: 6422539 BKG: 6422539										
Mercury	105	106	65-135	4	20	0.0069	U	0.0069	U	0 (1)	20
Batch number: 11272281401A	Sample number(s): 6422547 UNSPK: P422401 BKG: P422401										
3b Cr VI by EPA 7199	96		59-135			5.0	U	5.0	U	0 (1)	20
Batch number: 11278621201A	Sample number(s): 6422522-6422524,6422526-6422527,6422529-6422533 UNSPK: 6422522 BKG: 6422522										
7a Perchlorate EPA 314.0	114		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11278621201B	Sample number(s): 6422534-6422540,6422542,6422545-6422546 UNSPK: 6422539 BKG: 6422539										
7a Perchlorate EPA 314.0	115		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11283243202A	Sample number(s): 6422522-6422524,6422526-6422527,6422529-6422540,6422542,6422545-6422546 UNSPK: 6422539 BKG: 6422539										
3a Cr VI by EPA 7199	112		75-125			0.20	U	1.0		200* (1)	20
Batch number: 11285285201A	Sample number(s): 6422522-6422524,6422526-6422527,6422529-6422533 UNSPK: 6422522 BKG: 6422522										
11a Anions by 300.0 - Fluoride	76*		80-120			2.5		2.0		25* (1)	20
11a Anions by 300.0 - Nitrate	99		80-120			1.8		1.5	J	20 (1)	20
Batch number: 11285285201B	Sample number(s): 6422534-6422540,6422542,6422545-6422546 UNSPK: 6422539 BKG: 6422539										
11a Anions by 300.0 - Fluoride	83		80-120			1.4		1.2		16 (1)	20
Batch number: 11285039401A	Sample number(s): 6422522-6422524,6422526-6422527,6422529-6422532 BKG: 6422532										
17a pH by 9045C						6.05		6.05		0	3
Batch number: 11285039401B	Sample number(s): 6422533-6422539,6422542,6422545-6422546 BKG: 6422539										
17a pH by 9045C						7.61		7.61		0	3
Batch number: 11278162402A	Sample number(s): 6422522-6422527,6422529-6422531 BKG: 6422524										
Moisture Content by 160.3						7.6		7.4		2	20
Moisture Content by 160.3						7.6		7.4		2	20

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Quality Control Summary

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Reported: 11/03/11 at 02:54 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11278162402B	Sample number(s): 6422532-6422543,6422545 BKG: 6422539								
28a Moisture Content by 160.3						4.0	3.9	2	20
Moisture Content by 160.3						4.0	3.9	2	20
Moisture Content by 160.3						4.0	3.9	2	20
Batch number: 11279162401A	Sample number(s): 6422546 BKG: P419519								
Moisture Content by 160.3						4.6	4.9	5	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B112771AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6422525	101	103	101	93
Blank	99	95	102	93
LCS	99	99	106	100
LCSD	99	100	105	100
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E112722AA

	Toluene-d8
6422528	101
Blank	101
LCS	101
MS	101
MSD	101
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E112732AA

	Toluene-d8
6422525	94
Blank	94
LCS	94
LCSD	94
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260B
Batch number: Y112722AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene

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Surrogate Quality Control

6422528	98	98	99	99
Blank	98	101	99	98
LCS	99	103	100	99
LCSD	100	103	100	99
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11274WAB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6422547	93	91	93
Blank	106	99	103
LCS	112	93	94
LCSD	111	92	93
Limits:	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11276WAC026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6422547	59	35	93	92	93	85
Blank	63	42	94	96	94	85
LCS	77	53	103	108	104	93
LCSD	74	50	92	96	94	83
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 21a NDMA by 1625C
Batch number: 11280SLB026

	N-Nitrosodimethylamine-d6
6422522	128
6422523	126
6422524	117
6422526	122
6422527	115
Blank	125
LCS	129
MS	110
MSD	106
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11281SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6422522	87	80	83
6422523	84	75	80
6422524	89	82	86
6422526	95	80	89
6422527	74	67	77
6422529	91	81	91

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Quality Control Summary

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Reported: 11/03/11 at 02:54 PM

Surrogate Quality Control

6422530	97	81	85
6422531	95	82	87
6422532	95	83	85
6422533	92	82	98
6422534	90	82	95
6422535	90	80	89
6422536	97	79	95
6422537	96	76	108
6422538	81	74	89
6422539	88	79	84
6422540	94	78	83
6422541	95	79	81
6422545	95	80	100
6422546	88	80	98
Blank	87	81	86
LCS	94	80	87
MS	94	78	83
MSD	95	79	81
Limits:	40-130	45-130	45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11283SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6422522	83	86	89	82	89	83
6422523	91	93	95	87	91	90
6422524	87	89	98	83	88	86
6422526	90	91	100	82	89	87
6422527	91	92	93	82	90	87
6422529	84	87	82	82	88	83
6422530	88	91	97	84	89	89
6422531	88	89	97	84	90	86
6422532	87	87	90	81	88	85
6422533	82	82	94	75	81	85
6422534	86	89	92	80	85	82
6422535	88	89	102	82	89	88
6422536	88	90	95	80	85	84
6422537	88	89	99	81	87	86
6422538	85	86	94	78	83	84
6422539	87	88	88	80	83	81
6422540	88	91	98	83	85	83
6422541	91	92	101	85	89	87
6422545	90	92	96	83	87	86
6422546	88	86	92	82	86	88
Blank	89	93	101	87	92	88
LCS	90	94	102	86	91	87
MS	88	91	98	83	85	83
MSD	91	92	101	85	89	87
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11274A34A

	Trifluorotoluene-F
6422522	82
6422523	88

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Quality Control Summary

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Surrogate Quality Control

6422524	87
6422525	86
6422526	88
6422527	83
Blank	96
LCS	92
MS	96
MSD	98
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11279A20A

	Trifluorotoluene-F
6422528	86
Blank	87
LCS	111
LCSD	113
Limits:	63-135

Analysis Name: 13b Herbicides by EPA 8151
Batch number: 112720023A

	2,4-Dichlorophenylacetic acid
6422547	87
Blank	71
LCS	101
LCSD	95
Limits:	35-144

Analysis Name: 20a Formaldehyde 8315A
Batch number: 112740006A

	Butyraldehyde
6422522	91
6422523	85
6422524	92
6422526	98
6422527	98
Blank	89
LCS	92
MS	96
MSD	94
Limits:	64-126

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 112740023A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6422547	112	89
Blank	110	105
LCS	113	94

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Reported: 11/03/11 at 02:54 PM

Surrogate Quality Control

LCSD	106	107
Limits:	30-150	45-120

Analysis Name: 12b Pesticides by 8081A
Batch number: 112740024A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6422547	108	82
Blank	101	93
LCS	104	97
LCSD	105	71
Limits:	52-141	40-144

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 112790018A

	2,4-Dichlorophenylacetic acid
6422529	74
6422530	84
6422531	78
6422532	100
6422533	62
6422534	93
6422535	81
6422536	48
6422537	63
6422538	85
6422539	111
6422540	73
6422541	70
6422543	95
6422544	98
6422545	89
6422546	96
Blank	102
LCS	92
MS	73
MSD	70
Limits:	36-156

Analysis Name: 12a Pesticides by 8081A
Batch number: 112800017A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6422529	62	127*
6422530	64	101
6422531	69	93
6422532	75	97
6422533	64	92
6422534	73	85
6422535	79	89
6422536	98	93
6422537	45*	81

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**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268901
Reported: 11/03/11 at 02:54 PM

Surrogate Quality Control

6422538	51	85
6422539	66	97
6422540	72	97
6422541	65	98
6422543	53	105
6422544	67	93
6422545	62	109
6422546	54	99
Blank	69	125*
LCS	78	121*
MS	72	97
MSD	65	98
Limits:	50-130	20-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112800018A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6422522	97	81
6422523	176*	149*
6422524	144*	136*
6422526	143*	124*
6422527	117	97
6422529	117	114
6422530	110	111
6422531	136	137
6422532	119	120
6422533	135	141
6422534	117	116
6422535	128	137*
6422536	127	127*
6422537	98	122*
6422538	126	132*
6422539	134	148*
6422540	115	118
6422541	128	134
6422543	155*	171*
6422544	131	152*
6422545	112	117
6422546	107	116
Blank	120	148*
LCS	118	135*
LCSD	118	142*
MS	115	118
MSD	128	134
Limits:	53-139	45-120

Analysis Name: 18a Alcohols by 8015B
Batch number: 112730032A

	Acetone
6422522	85
6422523	93
6422524	87
6422526	88
6422527	87

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268901
Reported: 11/03/11 at 02:54 PM

Surrogate Quality Control

Blank	98	
LCS	99	
MS	87	
MSD	64	
Limits:	42-138	

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112790036A

	Chlorobenzene	Orthoterphenyl
6422522	82	88
6422523	90	103
6422524	81	87
6422526	84	90
6422527	90	101
Blank	84	90
LCS	87	93
MS	90	92
MSD	86	93
Limits:	37-125	47-145

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112790037A

	n-Triacontane-d62
6422522	66
6422523	58
6422524	62
6422526	70
6422527	69
Blank	68
LCS	67
MS	68
MSD	69
Limits:	19-152

Analysis Name: 19a Glycols by 8015B
Batch number: 112790048A

	Tetramethylene glycol
6422522	73
6422523	73
6422524	73
6422526	72
6422527	73
Blank	83
LCS	84
MS	74
MSD	73
Limits:	29-137

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1269901 sample# 6422522-47

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-DRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
						PRIMARY FOR ALL LOCATIONS									VOCs			SECONDARY FOR ALL LOCATIONS											Revised COC
SL-103-SA7-SB-18.5	9/28/11	1440	SOIL	NONE	2-Encores												X											
SL-103-SA7-SB-18.0-19.0	9/28/11	1430	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X	X	X	X			X	X	X	X	
SL-106-SA7-SB-4.5	9/28/11	1210	SOIL	NONE	2-Encores												X											
SL-106-SA7-SB-4.0-5.0	9/28/11	1215	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X					X	X	X	X			X	X	X	X	
SL-106-SA7-SB-9.5	9/28/11	1223	SOIL	NONE	2-Encores												X											
SL-106-SA7-SB-9.0-10.0	9/28/11	1230	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X					X	X	X	X			X	X	X	X	
SL-106-SA7-SB-15.5	9/28/11	0933	SOIL	NONE	5-Encores										X	X	X											
SL-106-SA7-SB-17.0	9/28/11	1240	SOIL	NONE	2-Encores												X											
SL-106-SA7-SB-16.5-17.5	9/28/11	1245	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X					X	X	X	X			X	X	X	X	use moisture for Encores from 15.5 ft
SL-106-SA7-SB-19.5	9/28/11	0945	SOIL	NONE	2-Encores												X											
SL-106-SA7-SB-19.0-20.0	9/28/11	0950	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X					X	X	X	X			X	X	X	X	
TB-092711	9/28/11	1430	WATER	NONE	4-40mL vials										X	X	X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	09/28/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8767 9858 3494; 8767 9858 3509 8767 9858 3510	

acct# 13013 Cup# 1268901 Sample# 6423529-47

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS										SS ONLY		
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C. Samplers Signatures:						*Metals EPA 6010/6020/7470/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	Other Instructions and Notes Revised COC
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers													
SL-007-SA5DS-SS-0.0-0.5	9/28/11	0800	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-007-SA5DS-SS-0.0-0.5	9/28/11	0800	SOIL	NONE	1-SS Sleeve			X	X								
SL-008-SA5DS-SS-0.0-0.5	9/28/11	0730	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	X	X	
SL-008-SA5DS-SS-0.0-0.5	9/28/11	0730	SOIL	NONE	1-SS Sleeve			X	X								
SL-009-SA5DS-SS-0.0-0.5	9/28/11	0950	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-009-SA5DS-SS-0.0-0.5	9/28/11	0950	SOIL	NONE	1-SS Sleeve			X	X								
SL-010-SA5DS-SS-0.0-0.5	9/28/11	0820	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-010-SA5DS-SS-0.0-0.5	9/28/11	0820	SOIL	NONE	1-SS Sleeve			X	X								
SL-013-SA5DS-SS-0.0-0.5	9/28/11	1100	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-013-SA5DS-SS-0.0-0.5	9/28/11	1100	SOIL	NONE	1-SS Sleeve			X	X								
SL-014-SA5DS-SS-0.0-0.5	9/28/11	1005	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-014-SA5DS-SS-0.0-0.5	9/28/11	1005	SOIL	NONE	1-SS Sleeve			X	X								
SL-015-SA5DS-SS-0.0-0.5	9/28/11	1045	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	X	X	
SL-015-SA5DS-SS-0.0-0.5	9/28/11	1045	SOIL	NONE	1-SS Sleeve			X	X								
SL-016-SA5DS-SS-0.0-0.5	9/28/11	0915	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-016-SA5DS-SS-0.0-0.5	9/28/11	0915	SOIL	NONE	1-SS Sleeve			X	X								
SL-017-SA5DS-SS-0.0-0.5	9/28/11	0835	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-017-SA5DS-SS-0.0-0.5	9/28/11	0835	SOIL	NONE	1-SS Sleeve			X	X								
SL-033-SA5DS-SS-0.0-0.5	9/28/11	1325	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-033-SA5DS-SS-0.0-0.5	9/28/11	1325	SOIL	NONE	1-SS Sleeve			X	X								
SL-034-SA5DS-SS-0.0-0.5MS	9/28/11	1345	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	MS/MSD
SL-034-SA5DS-SS-0.0-0.5MS	9/28/11	1345	SOIL	NONE	1-SS Sleeve			X	X								MS/MSD-only one sleeve collected
SL-040-SA5DS-SS-0.0-0.5	9/28/11	1505	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	X	X	
SL-040-SA5DS-SS-0.0-0.5	9/28/11	1505	SOIL	NONE	1-SS Sleeve			X	X								
DUP-02-SA5DS-QC-092811	9/28/11	1355	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
DUP-02-SA5DS-QC-092811	9/28/11	1355	SOIL	NONE	1-SS Sleeve			X	X								
Relinquished by: (*Signature*)	Date/Time 09/28/2011 / 1630		Received for Laboratory by: (*Signature*)														Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time		Airbill No.(s) 8767 9858 3494; 8767 9858 3509 8767 9858 3510														

acct#13013 Ap# 1269901 Sample# 6422522-47

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS									SS ONLY		Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected For samples collected from Subarea 6 (SA6) and Subarea 8 (SA7), report Tetralin under EPA Method 8270C.						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	
Samplers Signatures:																	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers												
EB-SA5DS-SS-092811	09.28.11	1300	WATER	NONE	7-1 liter ambers			X	X	X					X	X	
EB-SA5DS-SS-092811	09.28.11	1300	WATER	NONE	1-500 mL poly		X				X	X	X				
EB-SA5DS-SS-092811	09.28.11	1300	WATER	HNO3	1-500 mL poly	X											
Relinquished by: (*Signature*)	Date/Time 09/28/2011 / 1630		Received for Laboratory by: (*Signature*) 9/29/11 0905														Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time		Airbill No.(s) 8767 9858 3494; 8767 9858 3509 8767 9858 3510; 8767 9858 3520														

acct# 13013 Cp# 1266901 sample# 6422527-47

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 5 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-103-SA7-SB-18.5	9/28/11	1440	SOIL	NONE	2-Encores												X											
SL-103-SA7-SB-18.0-19.0	9/28/11	1430	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X	X	X	X			X	X	X	X	
SL-106-SA7-SB-4.5	9/28/11	1210	SOIL	NONE	2-Encores												X											
SL-106-SA7-SB-4.0-5.0	9/28/11	1215	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X	X	X	X			X	X	X	X	
SL-106-SA7-SB-9.5	9/28/11	1223	SOIL	NONE	2-Encores												X											
SL-106-SA7-SB-9.0-10.0	9/28/11	1230	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X	X	X	X			X	X	X	X	
SL-106-SA7-SB-15.5	9/28/11	0933	SOIL	NONE	5-Encores										X	X	X											
SL-106-SA7-SB-17.0	9/28/11	1240	SOIL	NONE	2-Encores												X											
SL-106-SA7-SB-16.5-17.5	9/28/11	1245	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X	X	X	X			X	X	X	X	use moisture for Encores from 15.5 ft
SL-106-SA7-SB-19.5	9/28/11	0945	SOIL	NONE	2-Encores												X											
SL-106-SA7-SB-19.0-20.0	9/28/11	0950	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X	X	X	X			X	X	X	X	
TB-092711	9/28/11	1430	WATER	NONE	4-40mL vials										X	X	X											

Relinquished by: (*Signature*) — Date/Time 09/27/2011 / 1630

Received by: (*Signature*) — Date/Time

Received for Laboratory by: (*Signature*) Gary ML LLI 9/29/11 0905

Airbill No.(s)
8767 9858 3494; 8767 9858 3509
8767 9858 3510; [redacted]

Laboratory:
Lancaster Laboratories, Inc.

acct# 13013 Cap# 1263901 Sample# 6423522-47

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures: Vidal Ortiz

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS								SS ONLY		Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	
SL-007-SA5DS-SS-0.0-0.5	9/28/11	0800	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-007-SA5DS-SS-0.0-0.5	9/28/11	0800	SOIL	NONE	1-SS Sleeve			X	X								
SL-008-SA5DS-SS-0.0-0.5	9/28/11	0730	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-008-SA5DS-SS-0.0-0.5	9/28/11	0730	SOIL	NONE	1-SS Sleeve			X	X								
SL-009-SA5DS-SS-0.0-0.5	9/28/11	0950	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-009-SA5DS-SS-0.0-0.5	9/28/11	0950	SOIL	NONE	1-SS Sleeve			X	X								
SL-010-SA5DS-SS-0.0-0.5	9/28/11	0820	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-010-SA5DS-SS-0.0-0.5	9/28/11	0820	SOIL	NONE	1-SS Sleeve			X	X								
SL-013-SA5DS-SS-0.0-0.5	9/28/11	1100	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-013-SA5DS-SS-0.0-0.5	9/28/11	1100	SOIL	NONE	1-SS Sleeve			X	X								
SL-014-SA5DS-SS-0.0-0.5	9/28/11	1005	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-014-SA5DS-SS-0.0-0.5	9/28/11	1005	SOIL	NONE	1-SS Sleeve			X	X								
SL-015-SA5DS-SS-0.0-0.5	9/28/11	1045	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-015-SA5DS-SS-0.0-0.5	9/28/11	1045	SOIL	NONE	1-SS Sleeve			X	X								
SL-016-SA5DS-SS-0.0-0.5	9/28/11	0915	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-016-SA5DS-SS-0.0-0.5	9/28/11	0915	SOIL	NONE	1-SS Sleeve			X	X								
SL-017-SA5DS-SS-0.0-0.5	9/28/11	0835	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-017-SA5DS-SS-0.0-0.5	9/28/11	0835	SOIL	NONE	1-SS Sleeve			X	X								
SL-033-SA5DS-SS-0.0-0.5	9/28/11	1325	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-033-SA5DS-SS-0.0-0.5	9/28/11	1325	SOIL	NONE	1-SS Sleeve			X	X								
SL-034-SA5DS-SS-0.0-0.5MS	9/28/11	1345	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	MS/MSD
SL-034-SA5DS-SS-0.0-0.5MS	9/28/11	1345	SOIL	NONE	1-SS Sleeve			X	X								MS/MSD-only one sleeve collected
SL-040-SA5DS-SS-0.0-0.5	9/28/11	1505	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-040-SA5DS-SS-0.0-0.5	9/28/11	1505	SOIL	NONE	1-SS Sleeve			X	X								
DUP-02-SA5DS-QC-092811	9/28/11	1355	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
DUP-02-SA5DS-QC-092811	9/28/11	1355	SOIL	NONE	1-SS Sleeve			X	X								

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
[signature]	09/28/2011 / 1630	[signature] LLI 9/29/11 ~~1100~~ 0905	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8767 9858 3494; 8767 9858 3509 8767 9858 3510; [redacted]	

(3) COC 9/29/11

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 19, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/29/2011
Group Number: 1268919
SDG: DX144
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-103-SA7-SB-18.0-19.0 Soil	6422590
SL-106-SA7-SB-4.0-5.0 Soil	6422591
SL-106-SA7-SB-9.0-10.0 Soil	6422592
SL-106-SA7-SB-16.5-17.5 Soil	6422593
SL-106-SA7-SB-19.0-20.0 Soil	6422594
SL-007-SA5DS-SS-0.0-0.5 Soil	6422595
SL-008-SA5DS-SS-0.0-0.5 Soil	6422596
SL-009-SA5DS-SS-0.0-0.5 Soil	6422597
SL-010-SA5DS-SS-0.0-0.5 Soil	6422598
SL-013-SA5DS-SS-0.0-0.5 Soil	6422599
SL-014-SA5DS-SS-0.0-0.5 Soil	6422600
SL-015-SA5DS-SS-0.0-0.5 Soil	6422601
SL-016-SA5DS-SS-0.0-0.5 Soil	6422602
SL-017-SA5DS-SS-0.0-0.5 Soil	6422603
SL-033-SA5DS-SS-0.0-0.5 Soil	6422604

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-103-SA7-SB-18.0-19.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-18.0-19.0

LLI Sample # SW 6422590
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 14:30

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4406 SDG#: DX144-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-103-SA7-SB-18.0-19.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-18.0-19.0

LLI Sample # SW 6422590
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 14:30

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4406 SDG#: DX144-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0433	U	0.0433	1.08	1
11031	12378-PeCDD	40321-76-4	0.128	J	0.0418	5.42	1
11031	123478-HxCDD	39227-28-6	0.126	JQ	0.0503	5.42	1
11031	123678-HxCDD	57653-85-7	0.298	JB	0.0473	5.42	1
11031	123789-HxCDD	19408-74-3	0.226	JQ	0.0489	5.42	1
11031	1234678-HpCDD	35822-46-9	16.5	B	0.0874	5.42	1
11031	OCDD	3268-87-9	129	B	0.0875	10.8	1
11031	2378-TCDF	51207-31-9	0.0514	JQ	0.0469	1.08	1
11031	12378-PeCDF	57117-41-6	0.238	JBQ	0.0249	5.42	1
11031	23478-PeCDF	57117-31-4	0.249	JB	0.0241	5.42	1
11031	123478-HxCDF	70648-26-9	0.192	JBQ	0.0332	5.42	1
11031	123678-HxCDF	57117-44-9	0.118	JB	0.0320	5.42	1
11031	123789-HxCDF	72918-21-9	0.268	J	0.0375	5.42	1
11031	234678-HxCDF	60851-34-5	0.0931	JQ	0.0335	5.42	1
11031	1234678-HpCDF	67562-39-4	0.563	JBQ	0.0274	5.42	1
11031	1234789-HpCDF	55673-89-7	0.0926	JB	0.0391	5.42	1
11031	OCDF	39001-02-0	1.54	JB	0.0581	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	90	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	92	32 - 141
13C12-123678-HxCDD	102	28 - 130
13C12-123789-HxCDD	97	28 - 130
13C12-1234678-HpCDD	97	23 - 140
13C12-OCDD	100	17 - 157
13C12-2378-TCDF	87	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	84	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	89	29 - 147
13C12-1234678-HpCDF	96	28 - 143
13C12-1234789-HpCDF	84	26 - 138
13C12-OCDF	84	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-103-SA7-SB-18.0-19.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-18.0-19.0

LLI Sample # SW 6422590
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 14:30

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4406 SDG#: DX144-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-103-SA7-SB-18.0-19.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-103-SA7-SB-18.0-19.0

LLI Sample # SW 6422590
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 14:30

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4406 SDG#: DX144-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280001	10/10/2011 22:45	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280001	10/07/2011 09:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162402A	10/05/2011 21:20	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-106-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-4.0-5.0

LLI Sample # SW 6422591
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 12:15

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4407 SDG#: DX144-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-106-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-4.0-5.0

LLI Sample # SW 6422591
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 12:15

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4407 SDG#: DX144-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0960	JQ	0.0426	1.02	1
11031	12378-PeCDD	40321-76-4	0.231	JQ	0.0423	5.12	1
11031	123478-HxCDD	39227-28-6	0.175	JQ	0.0497	5.12	1
11031	123678-HxCDD	57653-85-7	0.417	JB	0.0489	5.12	1
11031	123789-HxCDD	19408-74-3	0.239	JQ	0.0493	5.12	1
11031	1234678-HpCDD	35822-46-9	13.0	B	0.0897	5.12	1
11031	OCDD	3268-87-9	168	B	0.0854	10.2	1
11031	2378-TCDF	51207-31-9	0.0494	JQ	0.0422	1.02	1
11031	12378-PeCDF	57117-41-6	0.212	JB	0.0275	5.12	1
11031	23478-PeCDF	57117-31-4	0.289	JB	0.0265	5.12	1
11031	123478-HxCDF	70648-26-9	0.328	JB	0.0442	5.12	1
11031	123678-HxCDF	57117-44-9	0.153	JB	0.0418	5.12	1
11031	123789-HxCDF	72918-21-9	0.151	JQ	0.0468	5.12	1
11031	234678-HxCDF	60851-34-5	0.177	JQ	0.0409	5.12	1
11031	1234678-HpCDF	67562-39-4	1.98	JB	0.0342	5.12	1
11031	1234789-HpCDF	55673-89-7	0.222	JBQ	0.0497	5.12	1
11031	OCDF	39001-02-0	4.55	JB	0.0566	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	74	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-106-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-4.0-5.0

LLI Sample # SW 6422591
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 12:15

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4407 SDG#: DX144-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-106-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-4.0-5.0

LLI Sample # SW 6422591
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 12:15

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4407 SDG#: DX144-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280001	10/11/2011 02:45	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280001	10/07/2011 09:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162402A	10/05/2011 21:20	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-106-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-9.0-10.0

LLI Sample # SW 6422592
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 12:30

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4408 SDG#: DX144-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-106-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-9.0-10.0

LLI Sample # SW 6422592
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 12:30

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4408 SDG#: DX144-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0458	U	0.0458	1.05	1
11031	12378-PeCDD	40321-76-4	0.102	JQ	0.0393	5.25	1
11031	123478-HxCDD	39227-28-6	0.0393	U	0.0393	5.25	1
11031	123678-HxCDD	57653-85-7	0.176	JBQ	0.0377	5.25	1
11031	123789-HxCDD	19408-74-3	0.0825	J	0.0361	5.25	1
11031	1234678-HpCDD	35822-46-9	2.54	JB	0.0508	5.25	1
11031	OCDD	3268-87-9	26.3	B	0.0440	10.5	1
11031	2378-TCDF	51207-31-9	0.0513	JQ	0.0386	1.05	1
11031	12378-PeCDF	57117-41-6	0.210	JBQ	0.0255	5.25	1
11031	23478-PeCDF	57117-31-4	0.212	JBQ	0.0250	5.25	1
11031	123478-HxCDF	70648-26-9	0.137	JBQ	0.0285	5.25	1
11031	123678-HxCDF	57117-44-9	0.0967	JB	0.0258	5.25	1
11031	123789-HxCDF	72918-21-9	0.0887	J	0.0299	5.25	1
11031	234678-HxCDF	60851-34-5	0.0546	JQ	0.0274	5.25	1
11031	1234678-HpCDF	67562-39-4	0.330	JBQ	0.0197	5.25	1
11031	1234789-HpCDF	55673-89-7	0.0657	JBQ	0.0307	5.25	1
11031	OCDF	39001-02-0	0.884	JB	0.0550	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	69	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-106-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-9.0-10.0

LLI Sample # SW 6422592
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 12:30

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4408 SDG#: DX144-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-106-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-9.0-10.0

LLI Sample # SW 6422592
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 12:30

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4408 SDG#: DX144-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280001	10/11/2011 03:41	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280001	10/07/2011 09:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162402A	10/05/2011 21:20	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-106-SA7-SB-16.5-17.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-16.5-17.5

LLI Sample # SW 6422593
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 12:45

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4409 SDG#: DX144-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-106-SA7-SB-16.5-17.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-16.5-17.5

LLI Sample # SW 6422593
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 12:45

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4409 SDG#: DX144-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0488	JQ	0.0409	1.05	1
11031	12378-PeCDD	40321-76-4	0.105	J	0.0379	5.25	1
11031	123478-HxCDD	39227-28-6	0.0462	U	0.0462	5.25	1
11031	123678-HxCDD	57653-85-7	0.373	JB	0.0461	5.25	1
11031	123789-HxCDD	19408-74-3	0.339	JQ	0.0476	5.25	1
11031	1234678-HpCDD	35822-46-9	24.7	B	0.0945	5.25	1
11031	OCDD	3268-87-9	287	B	0.110	10.5	1
11031	2378-TCDF	51207-31-9	0.0425	J	0.0342	1.05	1
11031	12378-PeCDF	57117-41-6	0.111	JBQ	0.0222	5.25	1
11031	23478-PeCDF	57117-31-4	0.129	JBQ	0.0198	5.25	1
11031	123478-HxCDF	70648-26-9	0.0716	JB	0.0285	5.25	1
11031	123678-HxCDF	57117-44-9	0.0735	JBQ	0.0268	5.25	1
11031	123789-HxCDF	72918-21-9	0.152	JQ	0.0298	5.25	1
11031	234678-HxCDF	60851-34-5	0.0641	JQ	0.0275	5.25	1
11031	1234678-HpCDF	67562-39-4	0.728	JB	0.0345	5.25	1
11031	1234789-HpCDF	55673-89-7	0.0678	JB	0.0450	5.25	1
11031	OCDF	39001-02-0	2.31	JB	0.0552	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	70	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-106-SA7-SB-16.5-17.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-16.5-17.5

LLI Sample # SW 6422593
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 12:45

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X4409 SDG#: DX144-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-106-SA7-SB-16.5-17.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-16.5-17.5

LLI Sample # SW 6422593
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 12:45

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4409 SDG#: DX144-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280001	10/11/2011 04:38	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280001	10/07/2011 09:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162402A	10/05/2011 21:20	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-106-SA7-SB-19.0-20.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-19.0-20.0

LLI Sample # SW 6422594
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 09:50

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4410 SDG#: DX144-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-106-SA7-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-19.0-20.0

LLI Sample # SW 6422594
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 09:50

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4410 SDG#: DX144-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0426	U	0.0426	1.06	1
11031	12378-PeCDD	40321-76-4	0.0591	JQ	0.0378	5.30	1
11031	123478-HxCDD	39227-28-6	0.0687	JQ	0.0463	5.30	1
11031	123678-HxCDD	57653-85-7	0.338	JB	0.0429	5.30	1
11031	123789-HxCDD	19408-74-3	0.230	J	0.0401	5.30	1
11031	1234678-HpCDD	35822-46-9	10.7	B	0.0713	5.30	1
11031	OCDD	3268-87-9	125	B	0.0810	10.6	1
11031	2378-TCDF	51207-31-9	0.0363	U	0.0363	1.06	1
11031	12378-PeCDF	57117-41-6	0.0217	U	0.0217	5.30	1
11031	23478-PeCDF	57117-31-4	0.0762	JBQ	0.0204	5.30	1
11031	123478-HxCDF	70648-26-9	0.174	JB	0.0354	5.30	1
11031	123678-HxCDF	57117-44-9	0.0489	JBQ	0.0313	5.30	1
11031	123789-HxCDF	72918-21-9	0.113	JQ	0.0313	5.30	1
11031	234678-HxCDF	60851-34-5	0.0862	J	0.0289	5.30	1
11031	1234678-HpCDF	67562-39-4	1.14	JB	0.0308	5.30	1
11031	1234789-HpCDF	55673-89-7	0.154	JB	0.0421	5.30	1
11031	OCDF	39001-02-0	2.61	JB	0.0431	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	71	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: SL-106-SA7-SB-19.0-20.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-19.0-20.0

LLI Sample # SW 6422594
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 09:50

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
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Chantilly VA 20151

X4410 SDG#: DX144-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-106-SA7-SB-19.0-20.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-106-SA7-SB-19.0-20.0

LLI Sample # SW 6422594
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 09:50

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4410 SDG#: DX144-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280001	10/11/2011 05:34	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280001	10/07/2011 09:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162402A	10/05/2011 21:20	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-007-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422595
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 08:00

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4411 SDG#: DX144-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-007-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422595
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 08:00

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4411 SDG#: DX144-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0642	U	0.0642	0.993	1
11031	12378-PeCDD	40321-76-4	0.136	JQ	0.0509	4.97	1
11031	123478-HxCDD	39227-28-6	0.0534	U	0.0534	4.97	1
11031	123678-HxCDD	57653-85-7	0.934	JB	0.0511	4.97	1
11031	123789-HxCDD	19408-74-3	1.23	J	0.0514	4.97	1
11031	1234678-HpCDD	35822-46-9	3.83	JB	0.0521	4.97	1
11031	OCDD	3268-87-9	44.9	B	0.0676	9.93	1
11031	2378-TCDF	51207-31-9	0.121	JQ	0.0714	0.993	1
11031	12378-PeCDF	57117-41-6	0.119	JBQ	0.0412	4.97	1
11031	23478-PeCDF	57117-31-4	0.291	JBQ	0.0395	4.97	1
11031	123478-HxCDF	70648-26-9	0.128	JBQ	0.0399	4.97	1
11031	123678-HxCDF	57117-44-9	0.146	JBQ	0.0357	4.97	1
11031	123789-HxCDF	72918-21-9	0.671	J	0.0441	4.97	1
11031	234678-HxCDF	60851-34-5	0.180	JQ	0.0371	4.97	1
11031	1234678-HpCDF	67562-39-4	0.809	JB	0.0219	4.97	1
11031	1234789-HpCDF	55673-89-7	0.0546	JBQ	0.0328	4.97	1
11031	OCDF	39001-02-0	2.20	JB	0.0652	9.93	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	59	25 - 164
13C12-12378-PeCDD	62	25 - 181
13C12-123478-HxCDD	65	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	56	24 - 169
13C12-12378-PeCDF	61	24 - 185
13C12-23478-PeCDF	57	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	59	26 - 123
13C12-234678-HxCDF	58	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	56	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-007-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422595
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 08:00

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

X4411 SDG#: DX144-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-007-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422595
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 08:00

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4411 SDG#: DX144-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280001	10/11/2011 06:31	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280001	10/07/2011 09:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162402A	10/05/2011 21:20	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-008-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422596
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 07:30

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4412 SDG#: DX144-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-008-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422596
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 07:30

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4412 SDG#: DX144-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0433	J	0.0428	0.980	1
11031	12378-PeCDD	40321-76-4	0.0916	JQ	0.0428	4.90	1
11031	123478-HxCDD	39227-28-6	0.102	J	0.0438	4.90	1
11031	123678-HxCDD	57653-85-7	0.416	JB	0.0407	4.90	1
11031	123789-HxCDD	19408-74-3	0.509	JQ	0.0384	4.90	1
11031	1234678-HpCDD	35822-46-9	3.58	JB	0.0493	4.90	1
11031	OCDD	3268-87-9	38.8	B	0.0552	9.80	1
11031	2378-TCDF	51207-31-9	0.137	J	0.0654	0.980	1
11031	12378-PeCDF	57117-41-6	0.130	JB	0.0369	4.90	1
11031	23478-PeCDF	57117-31-4	0.115	JBQ	0.0361	4.90	1
11031	123478-HxCDF	70648-26-9	0.221	JB	0.0357	4.90	1
11031	123678-HxCDF	57117-44-9	0.133	JBQ	0.0317	4.90	1
11031	123789-HxCDF	72918-21-9	0.228	JQ	0.0373	4.90	1
11031	234678-HxCDF	60851-34-5	0.194	JQ	0.0330	4.90	1
11031	1234678-HpCDF	67562-39-4	0.676	JB	0.0202	4.90	1
11031	1234789-HpCDF	55673-89-7	0.0527	JBQ	0.0315	4.90	1
11031	OCDF	39001-02-0	1.53	JB	0.0582	9.80	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	62	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-008-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422596
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 07:30

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4412 SDG#: DX144-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-008-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422596
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 07:30

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4412 SDG#: DX144-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280001	10/11/2011 07:27	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280001	10/07/2011 09:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162402A	10/05/2011 21:20	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-009-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422597
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 09:50

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4413 SDG#: DX144-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-009-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422597
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 09:50

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4413 SDG#: DX144-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0460	U	0.0460	1.01	1
11031	12378-PeCDD	40321-76-4	0.142	JQ	0.0414	5.05	1
11031	123478-HxCDD	39227-28-6	0.0814	JQ	0.0445	5.05	1
11031	123678-HxCDD	57653-85-7	0.571	JB	0.0430	5.05	1
11031	123789-HxCDD	19408-74-3	0.746	J	0.0424	5.05	1
11031	1234678-HpCDD	35822-46-9	4.23	JB	0.0456	5.05	1
11031	OCDD	3268-87-9	45.4	B	0.0496	10.1	1
11031	2378-TCDF	51207-31-9	0.196	JQ	0.0539	1.01	1
11031	12378-PeCDF	57117-41-6	0.183	JBQ	0.0303	5.05	1
11031	23478-PeCDF	57117-31-4	0.0287	U	0.0287	5.05	1
11031	123478-HxCDF	70648-26-9	0.0575	JBQ	0.0355	5.05	1
11031	123678-HxCDF	57117-44-9	0.174	JB	0.0323	5.05	1
11031	123789-HxCDF	72918-21-9	0.483	J	0.0377	5.05	1
11031	234678-HxCDF	60851-34-5	0.202	JQ	0.0339	5.05	1
11031	1234678-HpCDF	67562-39-4	0.958	JB	0.0255	5.05	1
11031	1234789-HpCDF	55673-89-7	0.0653	JBQ	0.0380	5.05	1
11031	OCDF	39001-02-0	2.43	JB	0.0519	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	58	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-009-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422597
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 09:50

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4413 SDG#: DX144-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-009-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422597
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 09:50

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4413 SDG#: DX144-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280001	10/11/2011 08:24	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280001	10/07/2011 09:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162402A	10/05/2011 21:20	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-010-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422598
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 08:20

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4414 SDG#: DX144-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-010-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422598
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 08:20

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4414 SDG#: DX144-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0545	JQ	0.0437	1.00	1
11031	12378-PeCDD	40321-76-4	0.186	JQ	0.0456	5.02	1
11031	123478-HxCDD	39227-28-6	0.102	JQ	0.0469	5.02	1
11031	123678-HxCDD	57653-85-7	0.994	JB	0.0453	5.02	1
11031	123789-HxCDD	19408-74-3	1.32	J	0.0399	5.02	1
11031	1234678-HpCDD	35822-46-9	4.60	JB	0.0528	5.02	1
11031	OCDD	3268-87-9	52.9	B	0.0625	10.0	1
11031	2378-TCDF	51207-31-9	0.226	JQ	0.0647	1.00	1
11031	12378-PeCDF	57117-41-6	0.333	JBQ	0.0358	5.02	1
11031	23478-PeCDF	57117-31-4	0.260	JBQ	0.0348	5.02	1
11031	123478-HxCDF	70648-26-9	0.323	JBQ	0.0368	5.02	1
11031	123678-HxCDF	57117-44-9	0.198	JBQ	0.0318	5.02	1
11031	123789-HxCDF	72918-21-9	0.825	J	0.0349	5.02	1
11031	234678-HxCDF	60851-34-5	0.215	J	0.0319	5.02	1
11031	1234678-HpCDF	67562-39-4	0.834	JB	0.0253	5.02	1
11031	1234789-HpCDF	55673-89-7	0.145	JBQ	0.0397	5.02	1
11031	OCDF	39001-02-0	1.93	JB	0.0543	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	60	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-010-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422598
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 08:20

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4414 SDG#: DX144-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-010-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422598
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 08:20

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4414 SDG#: DX144-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280001	10/11/2011 09:21	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280001	10/07/2011 09:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162402B	10/05/2011 21:20	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-013-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422599
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 11:00

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4415 SDG#: DX144-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-013-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422599
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 11:00

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4415 SDG#: DX144-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0502	U	0.0502	1.00	1
11031	12378-PeCDD	40321-76-4	0.195	J	0.0480	5.02	1
11031	123478-HxCDD	39227-28-6	0.0821	JQ	0.0470	5.02	1
11031	123678-HxCDD	57653-85-7	0.632	JB	0.0438	5.02	1
11031	123789-HxCDD	19408-74-3	0.822	JQ	0.0403	5.02	1
11031	1234678-HpCDD	35822-46-9	1.78	JB	0.0517	5.02	1
11031	OCDD	3268-87-9	19.6	B	0.0509	10.0	1
11031	2378-TCDF	51207-31-9	0.0930	JQ	0.0472	1.00	1
11031	12378-PeCDF	57117-41-6	0.306	JBQ	0.0296	5.02	1
11031	23478-PeCDF	57117-31-4	0.290	JB	0.0290	5.02	1
11031	123478-HxCDF	70648-26-9	0.123	JB	0.0336	5.02	1
11031	123678-HxCDF	57117-44-9	0.162	JBQ	0.0284	5.02	1
11031	123789-HxCDF	72918-21-9	0.316	J	0.0352	5.02	1
11031	234678-HxCDF	60851-34-5	0.0908	J	0.0297	5.02	1
11031	1234678-HpCDF	67562-39-4	0.297	JB	0.0199	5.02	1
11031	1234789-HpCDF	55673-89-7	0.0580	JBQ	0.0351	5.02	1
11031	OCDF	39001-02-0	0.890	JBQ	0.0746	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	97	28 - 130
13C12-123789-HxCDD	99	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	59	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-013-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422599
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 11:00

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4415 SDG#: DX144-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-013-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422599
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 11:00

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4415 SDG#: DX144-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280001	10/11/2011 10:17	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280001	10/07/2011 09:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162402B	10/05/2011 21:20	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-014-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422600
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 10:05

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4416 SDG#: DX144-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-014-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422600
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 10:05

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4416 SDG#: DX144-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0416	U	0.0416	0.967	1
11031	12378-PeCDD	40321-76-4	0.234	J	0.0432	4.83	1
11031	123478-HxCDD	39227-28-6	0.0886	JQ	0.0475	4.83	1
11031	123678-HxCDD	57653-85-7	0.994	JB	0.0463	4.83	1
11031	123789-HxCDD	19408-74-3	0.984	J	0.0435	4.83	1
11031	1234678-HpCDD	35822-46-9	6.74	B	0.0669	4.83	1
11031	OCDD	3268-87-9	146	B	0.0778	9.67	1
11031	2378-TCDF	51207-31-9	0.162	JQ	0.0572	0.967	1
11031	12378-PeCDF	57117-41-6	0.294	JB	0.0309	4.83	1
11031	23478-PeCDF	57117-31-4	0.431	JB	0.0306	4.83	1
11031	123478-HxCDF	70648-26-9	0.283	JBQ	0.0438	4.83	1
11031	123678-HxCDF	57117-44-9	0.215	JB	0.0369	4.83	1
11031	123789-HxCDF	72918-21-9	0.507	J	0.0439	4.83	1
11031	234678-HxCDF	60851-34-5	0.205	JQ	0.0375	4.83	1
11031	1234678-HpCDF	67562-39-4	1.14	JB	0.0229	4.83	1
11031	1234789-HpCDF	55673-89-7	0.136	JB	0.0411	4.83	1
11031	OCDF	39001-02-0	2.71	JB	0.0560	9.67	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	93	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	58	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-014-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422600
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 10:05

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X4416 SDG#: DX144-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-014-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422600
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 10:05

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4416 SDG#: DX144-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280001	10/11/2011 11:14	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280001	10/07/2011 09:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162402B	10/05/2011 21:20	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-015-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422601
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 10:45

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4417 SDG#: DX144-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-015-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422601
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 10:45

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4417 SDG#: DX144-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0444	U	0.0444	1.01	1
11031	12378-PeCDD	40321-76-4	0.170	J	0.0414	5.03	1
11031	123478-HxCDD	39227-28-6	0.127	JQ	0.0417	5.03	1
11031	123678-HxCDD	57653-85-7	0.514	JB	0.0409	5.03	1
11031	123789-HxCDD	19408-74-3	0.834	JQ	0.0395	5.03	1
11031	1234678-HpCDD	35822-46-9	2.73	JB	0.0416	5.03	1
11031	OCDD	3268-87-9	34.3	B	0.0374	10.1	1
11031	2378-TCDF	51207-31-9	0.0574	J	0.0512	1.01	1
11031	12378-PeCDF	57117-41-6	0.188	JB	0.0262	5.03	1
11031	23478-PeCDF	57117-31-4	0.189	JB	0.0259	5.03	1
11031	123478-HxCDF	70648-26-9	0.0299	U	0.0299	5.03	1
11031	123678-HxCDF	57117-44-9	0.100	JB	0.0258	5.03	1
11031	123789-HxCDF	72918-21-9	0.521	J	0.0294	5.03	1
11031	234678-HxCDF	60851-34-5	0.126	JQ	0.0269	5.03	1
11031	1234678-HpCDF	67562-39-4	0.557	JB	0.0153	5.03	1
11031	1234789-HpCDF	55673-89-7	0.0259	U	0.0259	5.03	1
11031	OCDF	39001-02-0	1.16	JBQ	0.0426	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	94	23 - 140
13C12-OCDD	108	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	105	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	79	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-015-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422601
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 10:45

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X4417 SDG#: DX144-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-015-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422601
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 10:45

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4417 SDG#: DX144-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280001	10/11/2011 16:33	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280001	10/07/2011 09:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162402B	10/05/2011 21:20	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-016-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422602
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 09:15

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4418 SDG#: DX144-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-016-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422602
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 09:15

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4418 SDG#: DX144-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0529	U	0.0529	1.03	1
11031	12378-PeCDD	40321-76-4	0.159	JQ	0.0431	5.17	1
11031	123478-HxCDD	39227-28-6	0.0651	JQ	0.0369	5.17	1
11031	123678-HxCDD	57653-85-7	0.584	JBQ	0.0365	5.17	1
11031	123789-HxCDD	19408-74-3	0.787	J	0.0335	5.17	1
11031	1234678-HpCDD	35822-46-9	3.72	JB	0.0466	5.17	1
11031	OCDD	3268-87-9	40.7	B	0.0366	10.3	1
11031	2378-TCDF	51207-31-9	0.132	JQ	0.0634	1.03	1
11031	12378-PeCDF	57117-41-6	0.165	JBQ	0.0290	5.17	1
11031	23478-PeCDF	57117-31-4	0.193	JB	0.0284	5.17	1
11031	123478-HxCDF	70648-26-9	0.258	JB	0.0318	5.17	1
11031	123678-HxCDF	57117-44-9	0.103	JB	0.0283	5.17	1
11031	123789-HxCDF	72918-21-9	0.565	J	0.0330	5.17	1
11031	234678-HxCDF	60851-34-5	0.148	JQ	0.0299	5.17	1
11031	1234678-HpCDF	67562-39-4	0.771	JB	0.0178	5.17	1
11031	1234789-HpCDF	55673-89-7	0.0631	JB	0.0277	5.17	1
11031	OCDF	39001-02-0	1.78	JB	0.0382	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	92	28 - 130
13C12-123789-HxCDD	95	28 - 130
13C12-1234678-HpCDD	99	23 - 140
13C12-OCDD	106	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	100	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	80	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-016-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422602
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 09:15

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4418 SDG#: DX144-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-016-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422602
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 09:15

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4418 SDG#: DX144-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280001	10/11/2011 17:29	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280001	10/07/2011 09:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162402B	10/05/2011 21:20	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-017-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422603
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 08:35

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4419 SDG#: DX144-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	1.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-017-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422603
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 08:35

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4419 SDG#: DX144-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0586	J	0.0340	1.01	1
11031	12378-PeCDD	40321-76-4	0.208	J	0.0394	5.06	1
11031	123478-HxCDD	39227-28-6	0.136	J	0.0408	5.06	1
11031	123678-HxCDD	57653-85-7	1.02	JB	0.0411	5.06	1
11031	123789-HxCDD	19408-74-3	1.06	J	0.0361	5.06	1
11031	1234678-HpCDD	35822-46-9	7.14	B	0.0415	5.06	1
11031	OCDD	3268-87-9	71.4	B	0.0371	10.1	1
11031	2378-TCDF	51207-31-9	0.589	J	0.0962	1.01	1
11031	12378-PeCDF	57117-41-6	0.295	JB	0.0519	5.06	1
11031	23478-PeCDF	57117-31-4	1.11	JB	0.0512	5.06	1
11031	123478-HxCDF	70648-26-9	0.464	JB	0.0374	5.06	1
11031	123678-HxCDF	57117-44-9	0.278	JB	0.0340	5.06	1
11031	123789-HxCDF	72918-21-9	0.500	J	0.0363	5.06	1
11031	234678-HxCDF	60851-34-5	0.341	J	0.0336	5.06	1
11031	1234678-HpCDF	67562-39-4	1.42	JB	0.0180	5.06	1
11031	1234789-HpCDF	55673-89-7	0.121	JBQ	0.0274	5.06	1
11031	OCDF	39001-02-0	2.56	JB	0.0272	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	91	28 - 130
13C12-123789-HxCDD	96	28 - 130
13C12-1234678-HpCDD	97	23 - 140
13C12-OCDD	102	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	96	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	82	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-017-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422603
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 08:35

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4419 SDG#: DX144-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-017-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422603
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 08:35

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4419 SDG#: DX144-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280001	10/11/2011 18:26	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280001	10/07/2011 09:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162402B	10/05/2011 21:20	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-033-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422604
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:25

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4420 SDG#: DX144-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-033-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422604
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:25

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4420 SDG#: DX144-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0436	U	0.0436	1.01	1
11031	12378-PeCDD	40321-76-4	0.0490	J	0.0299	5.04	1
11031	123478-HxCDD	39227-28-6	0.0425	JQ	0.0227	5.04	1
11031	123678-HxCDD	57653-85-7	0.0582	JB	0.0223	5.04	1
11031	123789-HxCDD	19408-74-3	0.127	JQ	0.0310	5.04	1
11031	1234678-HpCDD	35822-46-9	0.444	JBQ	0.0260	5.04	1
11031	OCDD	3268-87-9	2.21	JB	0.0176	10.1	1
11031	2378-TCDF	51207-31-9	0.0356	U	0.0356	1.01	1
11031	12378-PeCDF	57117-41-6	0.0223	JBQ	0.0197	5.04	1
11031	23478-PeCDF	57117-31-4	0.0414	JBQ	0.0187	5.04	1
11031	123478-HxCDF	70648-26-9	0.0353	JBQ	0.0139	5.04	1
11031	123678-HxCDF	57117-44-9	0.0256	JBQ	0.0127	5.04	1
11031	123789-HxCDF	72918-21-9	0.112	JQ	0.0381	5.04	1
11031	234678-HxCDF	60851-34-5	0.0401	J	0.0139	5.04	1
11031	1234678-HpCDF	67562-39-4	0.153	JB	0.0159	5.04	1
11031	1234789-HpCDF	55673-89-7	0.0478	JBQ	0.0231	5.04	1
11031	OCDF	39001-02-0	0.253	JB	0.0281	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	87	25 - 164
13C12-12378-PeCDD	91	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	59	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	104	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	29	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	78	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-033-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422604
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:25

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4420 SDG#: DX144-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-033-SA5DS-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DS-SS-0.0-0.5

LLI Sample # SW 6422604
LLI Group # 1268919
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/28/2011 13:25

Submitted: 09/29/2011 09:05
Reported: 10/19/2011 22:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4420 SDG#: DX144-20*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11280001	10/11/2011 19:22	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11280001	10/07/2011 09:30	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162402B	10/05/2011 21:20	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268919
Reported: 10/19/11 at 10:51 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11278162402A	Sample number(s): 6422590-6422597								
Moisture Content by 160.3					100		80-120		
Batch number: 11278162402B	Sample number(s): 6422598-6422604								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11280001	Sample number(s): 6422590-6422604								
2378-TCDD	0.0692 U	0.0692	1.00	ng/kg	102		67-158		
12378-PeCDD	0.0515 U	0.0515	5.00	ng/kg	100		70-142		
123478-HxCDD	0.0373 U	0.0373	5.00	ng/kg	99		70-164		
123678-HxCDD	0.0400 J	0.0396	5.00	ng/kg	95		76-134		
123789-HxCDD	0.0363 U	0.0363	5.00	ng/kg	99		64-162		
1234678-HpCDD	0.0871 J	0.0566	5.00	ng/kg	96		70-140		
OCDD	0.371 J	0.0328	10.0	ng/kg	94		78-144		
2378-TCDF	0.0575 U	0.0575	1.00	ng/kg	96		75-158		
12378-PeCDF	0.0255 J	0.0253	5.00	ng/kg	98		80-134		
23478-PeCDF	0.0542 J	0.0240	5.00	ng/kg	96		68-160		
123478-HxCDF	0.0339 J	0.0255	5.00	ng/kg	96		72-134		
123678-HxCDF	0.0407 J	0.0222	5.00	ng/kg	95		84-130		
123789-HxCDF	0.0286 U	0.0286	5.00	ng/kg	97		78-130		
234678-HxCDF	0.0232 U	0.0232	5.00	ng/kg	96		70-156		
1234678-HpCDF	0.114 J	0.0150	5.00	ng/kg	94		82-122		
1234789-HpCDF	0.0877 J	0.0268	5.00	ng/kg	98		78-138		
OCDF	0.0977 J	0.0930	10.0	ng/kg	97		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11278162402A	Sample number(s): 6422590-6422597					BKG: P422524			
Moisture Content by 160.3						7.6	7.4	2	20
Batch number: 11278162402B	Sample number(s): 6422598-6422604					BKG: P422539			
Moisture Content by 160.3						4.0	3.9	2	20
Batch number: 11280001	Sample number(s): 6422590-6422604 UNSPK: P419586								

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268919
Reported: 10/19/11 at 10:51 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDD	98	100	67-158	4	25				
12378-PeCDD	104	101	70-142	2	25				
123478-HxCDD	99	102	70-164	4	25				
123678-HxCDD	98	98	76-134	1	25				
123789-HxCDD	100	100	64-162	1	25				
1234678-HpCDD	97	97	70-140	2	25				
OCDD	94	101	78-144	8	25				
2378-TCDF	96	96	75-158	1	25				
12378-PeCDF	98	99	80-134	2	25				
23478-PeCDF	98	98	68-160	1	25				
123478-HxCDF	97	97	72-134	1	25				
123678-HxCDF	97	98	84-130	2	25				
123789-HxCDF	96	98	78-130	3	25				
234678-HxCDF	98	99	70-156	3	25				
1234678-HpCDF	95	94	82-122	0	25				
1234789-HpCDF	99	98	78-138	0	25				
OCDF	96	98	63-170	3	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11280001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6422590	90	84	84	88	85	89
6422591	79	74	73	78	76	78
6422592	77	71	69	76	72	76
6422593	78	72	68	74	74	78
6422594	78	72	61	69	72	80
6422595	59	57	54	59	58	59
6422596	73	67	63	70	66	71
6422597	72	67	62	67	66	70
6422598	72	65	60	67	66	71
6422599	82	75	68	78	73	74
6422600	79	70	66	76	71	74
6422601	76	76	68	77	72	77
6422602	75	74	69	76	70	75
6422603	81	76	71	75	74	82
6422604	87	84	70	76	69	29
Blank	71	67	70	79	73	71
MS	74	67	65	70	69	71
MSD	70	64	66	73	69	73
OPR	53	53	57	63	60	62
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1268919
Reported: 10/19/11 at 10:51 PM

Surrogate Quality Control

6422590	96	84	84	90	92	102
6422591	87	72	74	78	83	86
6422592	88	69	69	77	80	88
6422593	77	73	70	75	80	86
6422594	79	72	71	76	81	89
6422595	71	56	56	62	65	74
6422596	81	63	62	72	73	87
6422597	79	63	58	71	73	83
6422598	78	64	60	68	75	81
6422599	94	64	59	81	87	97
6422600	93	63	58	76	83	89
6422601	105	74	79	82	82	85
6422602	100	74	80	79	87	92
6422603	96	78	82	81	90	91
6422604	97	77	78	91	80	84
Blank	92	65	60	73	85	85
MS	78	63	62	71	76	81
MSD	84	61	54	71	79	86
OPR	71	51	45	57	67	69
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6422590	97	97	100	87	89
6422591	83	86	88	76	78
6422592	86	85	85	74	75
6422593	82	82	78	77	74
6422594	88	86	85	74	76
6422595	73	70	71	56	61
6422596	89	82	80	68	73
6422597	83	82	77	70	71
6422598	84	81	76	68	70
6422599	99	91	84	78	82
6422600	93	84	83	74	77
6422601	83	94	108	73	83
6422602	95	99	106	72	82
6422603	96	97	102	78	82
6422604	59	91	104	69	89
Blank	85	81	78	64	72
MS	79	78	77	70	73
MSD	81	78	72	65	71
OPR	66	64	58	50	56
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cp# 1265919 sample# 6422590-604

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/BA7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613R	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040R	Perchlorate Confirmation by EPA 6850 (10%)	VOCs: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-103-SA7-SB-18.5	9/28/11	1440	SOIL	NONE	2-Encores												X											
SL-103-SA7-SB-18.0-19.0	9/28/11	1430	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X	X	X	X			X	X	X	X	
SL-106-SA7-SB-4.5	9/28/11	1210	SOIL	NONE	2-Encores												X											
SL-106-SA7-SB-4.0-5.0	9/28/11	1215	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X	X	X	X			X	X	X	X	
SL-106-SA7-SB-9.5	9/28/11	1223	SOIL	NONE	2-Encores												X											
SL-106-SA7-SB-9.0-10.0	9/28/11	1230	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X	X	X	X			X	X	X	X	
SL-106-SA7-SB-15.5	9/28/11	0933	SOIL	NONE	5-Encores										X	X	X											
SL-106-SA7-SB-17.0	9/28/11	1240	SOIL	NONE	2-Encores												X											
SL-106-SA7-SB-16.5-17.5	9/28/11	1245	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X	X	X	X			X	X	X	X	use moisture for Encores from 16.5 ft
SL-106-SA7-SB-19.5	9/28/11	0945	SOIL	NONE	2-Encores												X											
SL-106-SA7-SB-19.0-20.0	9/28/11	0950	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X	X				X	X	X	X			X	X	X	X	
TB-092711	9/28/11	1430	WATER	NONE	4-40mL vials										X	X	X											

Relinquished by: (*Signature*) — Date/Time: 09/27/2011 / 1630

Received for Laboratory by: (*Signature*) LLI 9/29/11 0905

Received by: (*Signature*) — Date/Time

Airbill No.(s): 8767 9858 3494; 8767 9858 3509; 8767 9858 3510; [redacted]

Laboratory: Lancaster Laboratories, Inc.

acct# 13013 Cap# 1263919 Sample# 6422590-004

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures: Vidal Ortiz

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 8850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	Other Instructions and Notes
SL-007-SA5DS-SS-0.0-0.5	9/28/11	0800	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-007-SA5DS-SS-0.0-0.5	9/28/11	0800	SOIL	NONE	1-SS Sleeve			X	X								
SL-008-SA5DS-SS-0.0-0.5	9/28/11	0730	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-008-SA5DS-SS-0.0-0.5	9/28/11	0730	SOIL	NONE	1-SS Sleeve			X	X								
SL-009-SA5DS-SS-0.0-0.5	9/28/11	0950	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-009-SA5DS-SS-0.0-0.5	9/28/11	0950	SOIL	NONE	1-SS Sleeve			X	X								
SL-010-SA5DS-SS-0.0-0.5	9/28/11	0820	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-010-SA5DS-SS-0.0-0.5	9/28/11	0820	SOIL	NONE	1-SS Sleeve			X	X								
SL-013-SA5DS-SS-0.0-0.5	9/28/11	1100	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-013-SA5DS-SS-0.0-0.5	9/28/11	1100	SOIL	NONE	1-SS Sleeve			X	X								
SL-014-SA5DS-SS-0.0-0.5	9/28/11	1005	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-014-SA5DS-SS-0.0-0.5	9/28/11	1005	SOIL	NONE	1-SS Sleeve			X	X								
SL-015-SA5DS-SS-0.0-0.5	9/28/11	1045	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-015-SA5DS-SS-0.0-0.5	9/28/11	1045	SOIL	NONE	1-SS Sleeve			X	X								
SL-016-SA5DS-SS-0.0-0.5	9/28/11	0915	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-016-SA5DS-SS-0.0-0.5	9/28/11	0915	SOIL	NONE	1-SS Sleeve			X	X								
SL-017-SA5DS-SS-0.0-0.5	9/28/11	0835	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-017-SA5DS-SS-0.0-0.5	9/28/11	0835	SOIL	NONE	1-SS Sleeve			X	X								
SL-033-SA5DS-SS-0.0-0.5	9/28/11	1325	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-033-SA5DS-SS-0.0-0.5	9/28/11	1325	SOIL	NONE	1-SS Sleeve			X	X								
SL-034-SA5DS-SS-0.0-0.5MS	9/28/11	1345	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	MS/MSD
SL-034-SA5DS-SS-0.0-0.5MS	9/28/11	1345	SOIL	NONE	1-SS Sleeve			X	X								MS/MSD-only one sleeve collected
SL-040-SA5DS-SS-0.0-0.5	9/28/11	1505	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-040-SA5DS-SS-0.0-0.5	9/28/11	1505	SOIL	NONE	1-SS Sleeve			X	X								
DUP-02-SA5DS-QC-092811	9/28/11	1355	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
DUP-02-SA5DS-QC-092811	9/28/11	1355	SOIL	NONE	1-SS Sleeve			X	X								

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
[signature]	09/28/2011 / 1630	Mary M/A LLI 9/29/11 0705 (3) GCC 9/29/11 1400	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s): 8767 9858 3494; 8767 9858 3509; 8767 9858 3510; [redacted]	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 14, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/30/2011
Group Number: 1269114
SDG: DE258
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-001-SA8S-SS-0.0-0.5 Soil	6423855
SL-003-SA8S-SS-0.0-0.5 Soil	6423856
SL-003-SA8S-SS-0.0-0.5MS Soil	6423857
SL-003-SA8S-SS-0.0-0.5MSD Soil	6423858
SL-003-SA8S-SS-0.0-0.5DUP Soil	6423859
SL-003-SA8S-SS-0.0-0.5RL MS Soil	6423860
SL-003-SA8S-SS-0.0-0.5RL LCS Soil	6423861
SL-005-SA8S-SS-0.0-0.5 Soil	6423862
SL-007-SA8S-SS-0.0-0.5 Soil	6423863
SL-013-SA8S-SS-0.0-0.5 Soil	6423864
SL-014-SA8S-SS-0.0-0.5 Soil	6423865
SL-015-SA8S-SS-0.0-0.5 Soil	6423866
SL-024-SA8S-SS-0.0-0.5 Soil	6423867
DUP01-SA8S-QC-092911 Soil	6423868
SL-126-SA7-SB-4.0-5.0 Soil	6423869
SL-127-SA7-SB-4.0-5.0 Soil	6423870
SL-177-SA7-SB-3.0-4.0 Soil	6423871
TB-092911 Water	6423872

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC CDM Federal Services Program Attn: Todd Burgesser

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

COPY TO
1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Sarah M. Snyder
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-001-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SS-0.0-0.5

LLI Sample # SW 6423855
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:25

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5801 SDG#: DE258-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-001-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SS-0.0-0.5

LLI Sample # SW 6423855
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:25

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5801 SDG#: DE258-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.87	J	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	3.8		0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.91	J	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	J	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	16	J	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	1.1	J	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J	6.4	19	1
10138	Fluoranthene	206-44-0	1.3	J	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	1.2	J	0.71	1.8	1

The following compounds were detected in the method blank at the respective concentrations of:
bis(2-ethylhexyl)phthalate 7.6 ug/kg
benzo(g,h,i)perylene 1.5 ug/kg
These blank values were not subtracted from the analytical results. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Bis(2-ethylhexyl)phthalate was again detected in the re-analysis of the sample. The data reported here is from the initial extraction of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.5	1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.5	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-001-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SS-0.0-0.5

LLI Sample # SW 6423855
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:25

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5801 SDG#: DE258-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8	1
10401	MCPA	94-74-6	1,900		81	270	1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270	1
10401	2,4,5-T	93-76-5	0.28	U	0.28	0.28	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1

The LCS data is outside the QC limits for various compounds. Results from the reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method. Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that MCPA was not detected in the reextract.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.072	J	0.036	0.18	1
01363	Chlordane	57-74-9	1.5	J	0.85	3.6	1
01363	p,p-DDD	72-54-8	0.52	U	0.52	0.52	1
01363	p,p-DDE	72-55-9	0.85		0.070	0.36	1
01363	p,p-DDT	50-29-3	0.82		0.070	0.36	1
01363	Delta BHC	319-86-8	0.44		0.038	0.18	1
01363	Dieldrin	60-57-1	0.13	U	0.13	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36	1
01363	Endrin	72-20-8	0.070	U	0.070	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.095	U	0.095	0.36	1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.047	U	0.047	0.18	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8	1
01363	Mirex	2385-85-5	0.19	U	0.19	0.36	1
01363	Toxaphene	8001-35-2	5.3	U	5.3	7.0	1

The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.
The DCB surrogate recovery is above the client specified limits of 20-120%, however it is within the laboratory's in-house statistical limits of 45-150%.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	2.8	J	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-001-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SS-0.0-0.5

LLI Sample # SW 6423855
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:25

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5801 SDG#: DE258-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	3.2		0.35	1.8	1
10225	PCB-1260	11096-82-5	2.2		0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,500		6.35	21.0	1
07914	Boron	7440-42-8	14.5		0.378	5.25	1
01650	Calcium	7440-70-2	76,800		13.1	105	5
01654	Iron	7439-89-6	37,700		13.7	105	5
01656	Lithium	7439-93-2	25.3		0.65	2.1	1
01657	Magnesium	7439-95-4	7,650		0.462	10.5	1
06958	Manganese	7439-96-5	337		0.0378	0.525	1
10145	Phosphorus	7723-14-0	638		0.367	10.5	1
01662	Potassium	7440-09-7	5,170		11.9	52.5	1
01667	Sodium	7440-23-5	118		6.25	105	1
07968	Strontium	7440-24-6	125		0.0262	0.525	1
06969	Tin	7440-31-5	2.14	J	0.336	10.5	1
06970	Titanium	7440-32-6	1,350		0.0724	1.02	1
10146	Zirconium	7440-67-7	2.86	J	0.483	5.25	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.225		0.0755	0.204	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.60		0.0816	0.408	2
06126	Barium	7440-39-3	138		0.108	0.408	2
06127	Beryllium	7440-41-7	0.853		0.0163	0.102	2
06128	Cadmium	7440-43-9	0.389		0.0449	0.102	2
06131	Chromium	7440-47-3	47.4		0.122	0.408	2
06132	Cobalt	7440-48-4	12.2		0.0204	0.102	2
06133	Copper	7440-50-8	23.5		0.0816	0.408	2
06135	Lead	7439-92-1	18.2		0.0104	0.204	2
06138	Molybdenum	7439-98-7	0.461		0.0510	0.102	2
06139	Nickel	7440-02-0	25.7		0.102	0.408	2
06141	Selenium	7782-49-2	0.489		0.0591	0.408	2
06142	Silver	7440-22-4	0.0357	J	0.0145	0.102	2
06145	Thallium	7440-28-0	0.420		0.0306	0.102	2
06148	Vanadium	7440-62-2	86.2		0.0224	0.102	2
06149	Zinc	7440-66-6	90.9		0.571	3.06	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0132	J	0.0073	0.103	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-001-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SS-0.0-0.5

LLI Sample # SW 6423855
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:25

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5801 SDG#: DE258-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.85	U	0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42	J	0.21	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.43		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.7		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 04:38	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/13/2011 20:04	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112810010A	10/12/2011 02:10	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 17:42	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/17/2011 20:06	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112810010A	10/10/2011 08:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 17:08	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-001-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SS-0.0-0.5

LLI Sample # SW 6423855
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:25

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5801 SDG#: DE258-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 17:08	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/13/2011 11:53	Eric L Eby	5
01654	Iron	SW-846 6010B	1	112785708004	10/13/2011 11:53	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 17:08	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 17:08	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 17:08	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 17:08	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 17:08	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 17:08	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 17:08	John P Hook	1
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 17:08	John P Hook	1
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 11:16	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 17:08	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 04:42	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 04:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 04:42	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 04:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:19	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201A	10/15/2011 14:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202A	10/13/2011 14:06	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 12:52	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201A	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285020A	10/12/2011 18:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402A	10/12/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-001-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SS-0.0-0.5

LLI Sample # SW 6423855
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:25

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5801 SDG#: DE258-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423856
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-003-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423856
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	20		6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.9	J	6.2	19	1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 7.6 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.5	U	4.5	9.3	1
10401	2,4-DB	94-82-6	0.64	U	0.64	1.8	1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2	1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8	1
10401	MCPA	94-74-6	130	U	130	260	1
10401	MCPP (Mecoprop)	93-65-2	280		77	260	1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18	1
10401	2,4,5-TP	93-72-1	0.13	U	0.13	0.18	1

The LCS data is outside the QC limits for various compounds. Results from the

*=This limit was used in the evaluation of the final result

Sample Description: **SL-003-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423856
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method. Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that MCPP was not detected in the reextract..						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	0.82	U	0.82	3.5	1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35	1
01363	p,p-DDE	72-55-9	0.48		0.068	0.35	1
01363	p,p-DDT	50-29-3	0.42	U	0.42	0.42	1
01363	Delta BHC	319-86-8	0.059	J	0.037	0.17	1
01363	Dieldrin	60-57-1	0.068	U	0.068	0.35	1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17	1
01363	Endosulfan II	33213-65-9	0.068	U	0.068	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35	1
01363	Endrin	72-20-8	0.068	U	0.068	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.28	U	0.28	0.35	1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35	1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.068	U	0.068	0.35	1
01363	Toxaphene	8001-35-2	7.2	U	7.2	7.2	1
	The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423856
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,900		6.19	20.5	1
07914	Boron	7440-42-8	11.2		0.369	5.12	1
01650	Calcium	7440-70-2	144,000		12.8	102	5
01654	Iron	7439-89-6	20,900		2.67	20.5	1
01656	Lithium	7439-93-2	18.5		0.63	2.0	1
01657	Magnesium	7439-95-4	6,100		0.451	10.2	1
06958	Manganese	7439-96-5	278		0.0369	0.512	1
10145	Phosphorus	7723-14-0	452		0.358	10.2	1
01662	Potassium	7440-09-7	3,130		11.6	51.2	1
01667	Sodium	7440-23-5	121		6.09	102	1
07968	Strontium	7440-24-6	156		0.0256	0.512	1
06969	Tin	7440-31-5	1.94	J	0.328	10.2	1
06970	Titanium	7440-32-6	832		0.0706	0.994	1
10146	Zirconium	7440-67-7	3.40	J	0.471	5.12	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.206		0.0750	0.203	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.79		0.0811	0.406	2
06126	Barium	7440-39-3	93.2		0.107	0.406	2
06127	Beryllium	7440-41-7	0.656		0.0162	0.101	2
06128	Cadmium	7440-43-9	0.300		0.0446	0.101	2
06131	Chromium	7440-47-3	29.9		0.122	0.406	2
06132	Cobalt	7440-48-4	9.60		0.0203	0.101	2
06133	Copper	7440-50-8	18.8		0.0811	0.406	2
06135	Lead	7439-92-1	20.8		0.0103	0.203	2
06138	Molybdenum	7439-98-7	0.322		0.0507	0.101	2
06139	Nickel	7440-02-0	17.1		0.101	0.406	2
06141	Selenium	7782-49-2	0.252	J	0.0588	0.406	2
06142	Silver	7440-22-4	0.0229	J	0.0144	0.101	2
06145	Thallium	7440-28-0	0.257		0.0304	0.101	2
06148	Vanadium	7440-62-2	51.6		0.0223	0.101	2
06149	Zinc	7440-66-6	55.1		0.568	3.04	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0184	J	0.0071	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.83	U	0.83	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.41	J	0.21	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-003-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423856
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.81	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	3.3	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 03:23	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/13/2011 14:38	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112810010A	10/12/2011 00:48	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 17:56	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/17/2011 20:25	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112810010A	10/10/2011 08:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 16:42	John P Hook	1
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 16:42	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/13/2011 11:11	Eric L Eby	5
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 16:42	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 16:42	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 16:42	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 16:42	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 16:42	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 16:42	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 16:42	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 16:42	John P Hook	1
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 16:42	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-003-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423856
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 10:50	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 16:42	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 04:12	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 04:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 04:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 04:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:20	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201A	10/15/2011 11:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202A	10/13/2011 11:47	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 13:06	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201A	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285020A	10/12/2011 18:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402A	10/12/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423857
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600		17	170	1
04688	Acenaphthylene	208-96-8	1,700		17	170	1
04688	Aniline	62-53-3	1,400		170	520	1
04688	Anthracene	120-12-7	1,800		17	170	1
04688	Benzidine	92-87-5	3,200	J	1,200	3,400	1
04688	Benzo(a)anthracene	56-55-3	1,800		17	170	1
04688	Benzo(a)pyrene	50-32-8	1,900		17	170	1
04688	Benzo(b)fluoranthene	205-99-2	1,800		17	170	1
04688	Benzo(g,h,i)perylene	191-24-2	1,800		17	170	1
04688	Benzo(k)fluoranthene	207-08-9	1,900		17	170	1
04688	Benzoic acid	65-85-0	220	J	170	520	1
04688	Benzyl alcohol	100-51-6	1,600		170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	2,100		17	170	1
04688	Butylbenzylphthalate	85-68-7	1,700		17	170	1
04688	Di-n-butylphthalate	84-74-2	1,800		17	170	1
04688	Carbazole	86-74-8	1,700		17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	1,600		34	170	1
04688	4-Chloroaniline	106-47-8	1,100		69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,400		17	170	1
04688	2-Chloronaphthalene	91-58-7	1,500		17	170	1
04688	2-Chlorophenol	95-57-8	1,700		17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		34	170	1
04688	Chrysene	218-01-9	1,900		17	170	1
04688	Dibenz(a,h)anthracene	53-70-3	1,900		17	170	1
04688	Dibenzofuran	132-64-9	1,600		17	170	1
04688	1,2-Dichlorobenzene	95-50-1	1,500		17	170	1
04688	1,3-Dichlorobenzene	541-73-1	1,500		17	170	1
04688	1,4-Dichlorobenzene	106-46-7	1,500		17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,100		100	340	1
04688	2,4-Dichlorophenol	120-83-2	1,800		17	170	1
04688	Diethylphthalate	84-66-2	1,700		17	170	1
04688	2,4-Dimethylphenol	105-67-9	1,700		34	170	1
04688	3,5-Dimethylphenol	108-68-9	1,800		34	170	1
04688	Dimethylphthalate	131-11-3	1,700		17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	560		170	520	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	1,700		34	170	1
04688	2,6-Dinitrotoluene	606-20-2	1,800		17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700		17	340	1
04688	Fluoranthene	206-44-0	1,900		17	170	1
04688	Fluorene	86-73-7	1,700		17	170	1
04688	Hexachlorobenzene	118-74-1	2,100		17	170	1
04688	Hexachlorobutadiene	87-68-3	1,900		69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	4,000		170	520	1
04688	Hexachloroethane	67-72-1	1,600		17	170	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900		17	170	1
04688	Isophorone	78-59-1	1,700		17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-003-SA8S-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423857
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1-Methylnaphthalene	90-12-0	1,600	17	170	1
04688	2-Methylnaphthalene	91-57-6	1,600	17	170	1
04688	2-Methylphenol	95-48-7	1,700	34	170	1
04688	4-Methylphenol	106-44-5	1,700	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,600	17	170	1
04688	2-Nitroaniline	88-74-4	1,500	17	170	1
04688	3-Nitroaniline	99-09-2	1,700	34	170	1
04688	4-Nitroaniline	100-01-6	1,200	69	170	1
04688	Nitrobenzene	98-95-3	1,700	17	170	1
04688	2-Nitrophenol	88-75-5	1,500	17	170	1
04688	4-Nitrophenol	100-02-7	1,500	170	520	1
04688	N-Nitrosodimethylamine	62-75-9	1,600	34	170	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,500	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	1,700	17	170	1
04688	Pentachlorophenol	87-86-5	1,200	170	520	1
04688	Phenanthrene	85-01-8	1,800	17	170	1
04688	Phenol	108-95-2	1,700	17	170	1
04688	Pyrene	129-00-0	1,700	17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	1,900	34	170	1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.					
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	32	0.69	1.7	1
10138	Acenaphthylene	208-96-8	32	0.34	1.7	1
10138	Anthracene	120-12-7	34	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	34	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	34	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	36	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	31	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	31	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	66	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	39	6.2	19	1
10138	Chrysene	218-01-9	33	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	35	0.69	1.7	1
10138	Diethylphthalate	84-66-2	36	6.2	19	1
10138	Dimethylphthalate	131-11-3	35	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	43	6.2	19	1
10138	Fluoranthene	206-44-0	35	0.69	1.7	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-003-SA8S-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423857
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	34		0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	34		0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	31		0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	31		0.69	1.7	1
10138	Naphthalene	91-20-3	31		0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	33		0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	40		6.2	19	1
10138	Phenanthrene	85-01-8	33		0.69	1.7	1
10138	Pyrene	129-00-0	34		0.69	1.7	1

The following compounds were detected in the method blank at the respective concentrations of:
bis(2-ethylhexyl)phthalate 7.6 ug/kg
indeno(1,2,3-cd)pyrene 1.1 ug/kg
dibenz(a,h)anthracene 1.4 ug/kg
benzo(g,h,i)perylene 1.5 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	6.4		1.2	3.7	1
10401	Dalapon	75-99-0	11		4.5	9.2	1
10401	2,4-DB	94-82-6	6.7		0.64	1.7	1
10401	Dicamba	1918-00-9	0.73	J	0.41	1.2	1
10401	Dinoseb	88-85-7	1.2	J	0.82	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	9.6		0.82	1.7	1
10401	MCPA	94-74-6	1,600		78	260	1
10401	MCPP (Mecoprop)	93-65-2	610		77	260	1
10401	2,4,5-T	93-76-5	0.60		0.084	0.18	1
10401	2,4,5-TP	93-72-1	0.13	J	0.078	0.18	1

The LCS data is outside the QC limits for various compounds. Results from the reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method. Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.19		0.068	0.18	1
01363	Alpha BHC	319-84-6	0.19		0.035	0.18	1
01363	Beta BHC	319-85-7	0.20		0.062	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.19		0.035	0.18	1
01363	Chlordane	57-74-9	0.83	U	0.83	3.5	1
01363	p,p-DDD	72-54-8	0.50		0.068	0.35	1
01363	p,p-DDE	72-55-9	0.97		0.068	0.35	1
01363	p,p-DDT	50-29-3	0.87		0.068	0.35	1
01363	Delta BHC	319-86-8	0.28		0.037	0.18	1
01363	Dieldrin	60-57-1	0.35		0.068	0.35	1
01363	Endosulfan I	959-98-8	0.14	J	0.046	0.18	1
01363	Endosulfan II	33213-65-9	0.53		0.068	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8S-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423857
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Endrin	72-20-8	0.41		0.068	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.51		0.068	0.35	1
01363	Endrin Ketone	53494-70-5	0.38		0.068	0.35	1
01363	Heptachlor	76-44-8	0.21		0.062	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.24		0.035	0.18	1
01363	Methoxychlor	72-43-5	2.3		0.35	1.7	1
01363	Mirex	2385-85-5	0.068	U	0.068	0.35	1
01363	Toxaphene	8001-35-2	12	U	12	12	1
	The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.4	J	1.0	3.4	1
10225	PCB-1016	12674-11-2	12		0.34	1.7	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7	1
10225	PCB-1260	11096-82-5	14		0.40	1.7	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,300		6.26	20.7	1
07914	Boron	7440-42-8	223		0.372	5.17	1
01650	Calcium	7440-70-2	155,000		12.9	103	5
01654	Iron	7439-89-6	21,700		2.70	20.7	1
01656	Lithium	7439-93-2	123		0.64	2.1	1
01657	Magnesium	7439-95-4	6,410		0.455	10.3	1
06958	Manganese	7439-96-5	392		0.0372	0.517	1
10145	Phosphorus	7723-14-0	554		0.362	10.3	1
01662	Potassium	7440-09-7	4,660		11.7	51.7	1
01667	Sodium	7440-23-5	1,150		6.15	103	1
07968	Strontium	7440-24-6	252		0.0259	0.517	1
06969	Tin	7440-31-5	335		0.331	10.3	1
06970	Titanium	7440-32-6	1,150		0.0727	1.02	1
10146	Zirconium	7440-67-7	103		0.476	5.17	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.530		0.0743	0.201	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	10.6		0.0803	0.402	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8S-SS-0.0-0.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423857
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06126	Barium	7440-39-3	113	0.106	0.402	2
06127	Beryllium	7440-41-7	1.56	0.0161	0.100	2
06128	Cadmium	7440-43-9	1.42	0.0442	0.100	2
06131	Chromium	7440-47-3	46.8	0.120	0.402	2
06132	Cobalt	7440-48-4	64.8	0.0201	0.100	2
06133	Copper	7440-50-8	31.8	0.0803	0.402	2
06135	Lead	7439-92-1	24.4	0.0102	0.201	2
06138	Molybdenum	7439-98-7	12.0	0.0502	0.100	2
06139	Nickel	7440-02-0	30.7	0.100	0.402	2
06141	Selenium	7782-49-2	2.24	0.0582	0.402	2
06142	Silver	7440-22-4	11.1	0.0143	0.100	2
06145	Thallium	7440-28-0	0.747	0.0301	0.100	2
06148	Vanadium	7440-62-2	76.1	0.0221	0.100	2
06149	Zinc	7440-66-6	69.7	0.562	3.01	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.177	0.0073	0.103	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.6	0.84	1.0	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	584	9.3	31.0	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	36.9	1.0	5.2	5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	3.3	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 03:48	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/13/2011 15:10	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-003-SA8S-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423857
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112810010A	10/12/2011 01:15	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 18:11	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/17/2011 20:44	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112810010A	10/10/2011 08:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 16:55	John P Hook	1
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 16:55	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/13/2011 11:29	Eric L Eby	5
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 16:55	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 16:55	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 16:55	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 16:55	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 16:55	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 16:55	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 16:55	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 16:55	John P Hook	1
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 16:55	John P Hook	1
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 11:03	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 16:55	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 04:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 04:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 04:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 04:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:23	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201A	10/15/2011 14:16	Ashley M Adams	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-003-SA8S-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423857
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E5802 SDG#: DE258-02MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202A	10/13/2011 12:34	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 14:02	Elyse P Brunstetter	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201A	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285020A	10/12/2011 18:30	Carolyn M Mastropietro	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423858
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,500		17	170	1
04688	Acenaphthylene	208-96-8	1,500		17	170	1
04688	Aniline	62-53-3	970		170	520	1
04688	Anthracene	120-12-7	1,600		17	170	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzo(a)anthracene	56-55-3	1,600		17	170	1
04688	Benzo(a)pyrene	50-32-8	1,700		17	170	1
04688	Benzo(b)fluoranthene	205-99-2	1,600		17	170	1
04688	Benzo(g,h,i)perylene	191-24-2	1,700		17	170	1
04688	Benzo(k)fluoranthene	207-08-9	1,600		17	170	1
04688	Benzoic acid	65-85-0	200	J	170	520	1
04688	Benzyl alcohol	100-51-6	1,800		170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		17	170	1
04688	Butylbenzylphthalate	85-68-7	1,500		17	170	1
04688	Di-n-butylphthalate	84-74-2	1,600		17	170	1
04688	Carbazole	86-74-8	1,500		17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	1,400		34	170	1
04688	4-Chloroaniline	106-47-8	550		69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,600		17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,300		17	170	1
04688	2-Chloronaphthalene	91-58-7	1,400		17	170	1
04688	2-Chlorophenol	95-57-8	1,600		17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,500		34	170	1
04688	Chrysene	218-01-9	1,600		17	170	1
04688	Dibenz(a,h)anthracene	53-70-3	1,700		17	170	1
04688	Dibenzofuran	132-64-9	1,500		17	170	1
04688	1,2-Dichlorobenzene	95-50-1	1,400		17	170	1
04688	1,3-Dichlorobenzene	541-73-1	1,400		17	170	1
04688	1,4-Dichlorobenzene	106-46-7	1,400		17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	700		100	340	1
04688	2,4-Dichlorophenol	120-83-2	1,600		17	170	1
04688	Diethylphthalate	84-66-2	1,500		17	170	1
04688	2,4-Dimethylphenol	105-67-9	1,600		34	170	1
04688	3,5-Dimethylphenol	108-68-9	1,600		34	170	1
04688	Dimethylphthalate	131-11-3	1,500		17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	720		170	520	1
04688	2,4-Dinitrophenol	51-28-5	700	J	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	1,500		34	170	1
04688	2,6-Dinitrotoluene	606-20-2	1,600		17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	1,700		17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,600		17	340	1
04688	Fluoranthene	206-44-0	1,600		17	170	1
04688	Fluorene	86-73-7	1,500		17	170	1
04688	Hexachlorobenzene	118-74-1	1,900		17	170	1
04688	Hexachlorobutadiene	87-68-3	1,800		69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	4,000		170	520	1
04688	Hexachloroethane	67-72-1	1,500		17	170	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,700		17	170	1
04688	Isophorone	78-59-1	1,500		17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8S-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423858
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,400	17	170	1
04688	2-Methylnaphthalene	91-57-6	1,500	17	170	1
04688	2-Methylphenol	95-48-7	1,500	34	170	1
04688	4-Methylphenol	106-44-5	1,500	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,400	17	170	1
04688	2-Nitroaniline	88-74-4	1,400	17	170	1
04688	3-Nitroaniline	99-09-2	1,300	34	170	1
04688	4-Nitroaniline	100-01-6	1,000	69	170	1
04688	Nitrobenzene	98-95-3	1,600	17	170	1
04688	2-Nitrophenol	88-75-5	1,500	17	170	1
04688	4-Nitrophenol	100-02-7	1,400	170	520	1
04688	N-Nitrosodimethylamine	62-75-9	1,400	34	170	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,400	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	1,700	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	1,600	17	170	1
04688	Pentachlorophenol	87-86-5	1,500	170	520	1
04688	Phenanthrene	85-01-8	1,500	17	170	1
04688	Phenol	108-95-2	1,600	17	170	1
04688	Pyrene	129-00-0	1,500	17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	1,700	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	1,800	34	170	1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.					
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	29	0.69	1.7	1
10138	Acenaphthylene	208-96-8	28	0.34	1.7	1
10138	Anthracene	120-12-7	30	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	29	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	30	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	36	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	19	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	30	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	51	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	39	6.2	19	1
10138	Chrysene	218-01-9	30	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	23	0.69	1.7	1
10138	Diethylphthalate	84-66-2	34	6.2	19	1
10138	Dimethylphthalate	131-11-3	31	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	51	6.2	19	1
10138	Fluoranthene	206-44-0	32	0.69	1.7	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-003-SA8S-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423858
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Fluorene	86-73-7	31		0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	22		0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	28		0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	27		0.69	1.7	1
10138	Naphthalene	91-20-3	28		0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	28		0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	40		6.2	19	1
10138	Phenanthrene	85-01-8	29		0.69	1.7	1
10138	Pyrene	129-00-0	29		0.69	1.7	1

The following compounds were detected in the method blank at the respective concentrations of:
bis(2-ethylhexyl)phthalate 7.6 ug/kg
indeno(1,2,3-cd)pyrene 1.1 ug/kg
dibenz(a,h)anthracene 1.4 ug/kg
benzo(g,h,i)perylene 1.5 ug/kg
These blank values were not subtracted from the analytical results.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	6.6		1.2	3.7	1
10401	Dalapon	75-99-0	8.9	J	4.5	9.3	1
10401	2,4-DB	94-82-6	5.5		0.64	1.8	1
10401	Dicamba	1918-00-9	0.72	J	0.41	1.2	1
10401	Dinoseb	88-85-7	5.2		0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	9.9		0.83	1.8	1
10401	MCPA	94-74-6	1,800		78	260	1
10401	MCPP (Mecoprop)	93-65-2	660		77	260	1
10401	2,4,5-T	93-76-5	0.40		0.085	0.18	1
10401	2,4,5-TP	93-72-1	0.36		0.078	0.18	1

The LCS data is outside the QC limits for various compounds. Results from the reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method. Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.19		0.068	0.18	1
01363	Alpha BHC	319-84-6	0.18		0.035	0.18	1
01363	Beta BHC	319-85-7	0.18		0.062	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.19		0.035	0.18	1
01363	Chlordane	57-74-9	0.83	U	0.83	3.5	1
01363	p,p-DDD	72-54-8	0.48		0.068	0.35	1
01363	p,p-DDE	72-55-9	0.91		0.068	0.35	1
01363	p,p-DDT	50-29-3	0.81		0.068	0.35	1
01363	Delta BHC	319-86-8	0.28		0.037	0.18	1
01363	Dieldrin	60-57-1	0.32	J	0.068	0.35	1
01363	Endosulfan I	959-98-8	0.18		0.046	0.18	1
01363	Endosulfan II	33213-65-9	0.47		0.068	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.34	J	0.068	0.35	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-003-SA8S-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423858
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Endrin	72-20-8	0.39		0.068	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.47		0.068	0.35	1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35	1
01363	Heptachlor	76-44-8	0.20		0.062	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.24		0.035	0.18	1
01363	Methoxychlor	72-43-5	2.1		0.35	1.7	1
01363	Mirex	2385-85-5	0.19	J	0.068	0.35	1
01363	Toxaphene	8001-35-2	8.6	U	8.6	8.6	1
	The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	14		0.34	1.7	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7	1
10225	PCB-1260	11096-82-5	16		0.40	1.7	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,300		6.19	20.5	1
07914	Boron	7440-42-8	219		0.369	5.12	1
01650	Calcium	7440-70-2	148,000		12.8	102	5
01654	Iron	7439-89-6	21,600		2.67	20.5	1
01656	Lithium	7439-93-2	123		0.63	2.0	1
01657	Magnesium	7439-95-4	6,700		0.451	10.2	1
06958	Manganese	7439-96-5	336		0.0369	0.512	1
10145	Phosphorus	7723-14-0	561		0.358	10.2	1
01662	Potassium	7440-09-7	4,880		11.6	51.2	1
01667	Sodium	7440-23-5	1,130		6.09	102	1
07968	Strontium	7440-24-6	245		0.0256	0.512	1
06969	Tin	7440-31-5	328		0.328	10.2	1
06970	Titanium	7440-32-6	1,130		0.0706	0.994	1
10146	Zirconium	7440-67-7	102		0.471	5.12	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.650		0.0750	0.203	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	11.0		0.0811	0.406	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423858
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	
06126	Barium	7440-39-3	126	0.107	0.406	2
06127	Beryllium	7440-41-7	1.60	0.0162	0.101	2
06128	Cadmium	7440-43-9	1.63	0.0446	0.101	2
06131	Chromium	7440-47-3	51.0	0.122	0.406	2
06132	Cobalt	7440-48-4	75.1	0.0203	0.101	2
06133	Copper	7440-50-8	35.7	0.0811	0.406	2
06135	Lead	7439-92-1	28.5	0.0103	0.203	2
06138	Molybdenum	7439-98-7	13.9	0.0507	0.101	2
06139	Nickel	7440-02-0	35.2	0.101	0.406	2
06141	Selenium	7782-49-2	2.49	0.0588	0.406	2
06142	Silver	7440-22-4	12.9	0.0144	0.101	2
06145	Thallium	7440-28-0	0.841	0.0304	0.101	2
06148	Vanadium	7440-62-2	80.5	0.0223	0.101	2
06149	Zinc	7440-66-6	73.4	0.568	3.04	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.175	0.0069	0.0979	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.3	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 04:13	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/13/2011 19:33	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112810010A	10/12/2011 01:42	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 18:26	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/17/2011 21:03	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423858
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112810010A	10/10/2011 08:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 16:59	John P Hook	1
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 16:59	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/13/2011 11:33	Eric L Eby	5
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 16:59	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 16:59	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 16:59	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 16:59	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 16:59	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 16:59	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 16:59	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 16:59	John P Hook	1
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 16:59	John P Hook	1
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 11:08	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 16:59	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 04:24	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 04:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 04:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 04:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:24	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423859
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,300		6.02	19.9	1
07914	Boron	7440-42-8	10.9		0.358	4.97	1
01650	Calcium	7440-70-2	139,000		12.4	99.4	5
01654	Iron	7439-89-6	24,600		2.60	19.9	1
01656	Lithium	7439-93-2	18.3		0.62	2.0	1
01657	Magnesium	7439-95-4	6,120		0.438	9.94	1
06958	Manganese	7439-96-5	313		0.0358	0.497	1
10145	Phosphorus	7723-14-0	460		0.348	9.94	1
01662	Potassium	7440-09-7	3,150		11.2	49.7	1
01667	Sodium	7440-23-5	112		5.92	99.4	1
07968	Strontium	7440-24-6	154		0.0249	0.497	1
06969	Tin	7440-31-5	1.95	J	0.318	9.94	1
06970	Titanium	7440-32-6	844		0.0727	1.02	1
10146	Zirconium	7440-67-7	4.19	J	0.457	4.97	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.232		0.0736	0.199	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.15		0.0795	0.398	2
06126	Barium	7440-39-3	111		0.105	0.398	2
06127	Beryllium	7440-41-7	0.794		0.0159	0.0994	2
06128	Cadmium	7440-43-9	0.364		0.0438	0.0994	2
06131	Chromium	7440-47-3	35.1		0.119	0.398	2
06132	Cobalt	7440-48-4	9.48		0.0199	0.0994	2
06133	Copper	7440-50-8	23.7		0.0795	0.398	2
06135	Lead	7439-92-1	23.8		0.0101	0.199	2
06138	Molybdenum	7439-98-7	0.455		0.0497	0.0994	2
06139	Nickel	7440-02-0	20.4		0.0994	0.398	2
06141	Selenium	7782-49-2	0.303	J	0.0577	0.398	2
06142	Silver	7440-22-4	0.0176	J	0.0141	0.0994	2
06145	Thallium	7440-28-0	0.313		0.0298	0.0994	2
06148	Vanadium	7440-62-2	64.9		0.0219	0.0994	2
06149	Zinc	7440-66-6	67.1		0.557	2.98	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0131	J	0.0071	0.100	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.83	U	0.83	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.53	J	0.21	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-003-SA8S-SS-0.0-0.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423859
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.82	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11626	28a Moisture Content by 160.3	n.a.	3.3	0.50	0.50	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					
11625	Moisture Content by 160.3	n.a.	3.3	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 16:50	John P Hook	1
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 16:50	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/13/2011 11:26	Eric L Eby	5
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 16:50	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 16:50	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 16:50	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 16:50	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 16:50	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 16:50	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 16:50	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 16:50	John P Hook	1
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 16:50	John P Hook	1
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 10:59	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 16:50	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 04:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 04:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 04:18	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-003-SA8S-SS-0.0-0.5DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423859
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 04:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:22	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201A	10/15/2011 12:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202A	10/13/2011 12:11	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 14:38	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201A	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285020A	10/12/2011 18:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402A	10/12/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423860
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	3.9	J	3.8	9.3	1
10401	2,4-DB	94-82-6	1.6	J	0.64	1.8	1
10401	Dicamba	1918-00-9	0.46	J	0.41	1.2	1
10401	Dinoseb	88-85-7	1.3	J	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	1.6	J	0.83	1.8	1
10401	MCPA	94-74-6	890		79	260	1
10401	MCPP (Mecoprop)	93-65-2	120	J	78	260	1
10401	2,4,5-T	93-76-5	0.45		0.085	0.18	1
10401	2,4,5-TP	93-72-1	0.43		0.078	0.18	1

The LCS data is outside the QC limits for various compounds. Results from the reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method. Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.087	J	0.068	0.17	1
01363	Alpha BHC	319-84-6	0.084	J	0.035	0.17	1
01363	Beta BHC	319-85-7	0.10	J	0.062	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.094	J	0.035	0.17	1
01363	Chlordane	57-74-9	1.7	J	0.83	3.5	1
01363	p,p-DDD	72-54-8	0.23	J	0.068	0.35	1
01363	p,p-DDE	72-55-9	0.64		0.068	0.35	1
01363	p,p-DDT	50-29-3	0.50		0.068	0.35	1
01363	Delta BHC	319-86-8	0.14	J	0.037	0.17	1
01363	Dieldrin	60-57-1	0.16	J	0.068	0.35	1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17	1
01363	Endosulfan II	33213-65-9	0.16	J	0.068	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35	1
01363	Endrin	72-20-8	0.20	J	0.068	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.29	J	0.068	0.35	1
01363	Endrin Ketone	53494-70-5	0.22	J	0.068	0.35	1
01363	Heptachlor	76-44-8	0.10	J	0.062	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.074	J	0.035	0.17	1
01363	Methoxychlor	72-43-5	1.0	J	0.35	1.7	1
01363	Mirex	2385-85-5	0.30	J	0.068	0.35	1
01363	Toxaphene	8001-35-2	7.2	U	7.2	7.2	1

The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	2.2	J	1.0	3.4	1
10225	PCB-1016	12674-11-2	1.7	J	0.34	1.8	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423860
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	3.2		0.40	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	
11625	Moisture Content by 160.3	n.a.	3.3		0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112810010A	10/12/2011 03:32	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 18:40	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/17/2011 21:40	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112810010A	10/10/2011 08:00	Kerrie A Freeburn	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-003-SA8S-SS-0.0-0.5RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423861
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	5.0		1.2	3.6	1
10401	Dalapon	75-99-0	3.9	J	3.5	9.0	1
10401	2,4-DB	94-82-6	1.7		0.62	1.7	1
10401	Dicamba	1918-00-9	0.42	J	0.40	1.2	1
10401	Dinoseb	88-85-7	0.61	J	0.60	2.4	1
10401	2,4-DP (Dichlorprop)	120-36-5	2.3		0.80	1.7	1
10401	MCPA	94-74-6	160	J	76	250	1
10401	MCPP (Mecoprop)	93-65-2	120	J	75	250	1
10401	2,4,5-T	93-76-5	0.21		0.082	0.17	1
10401	2,4,5-TP	93-72-1	0.13	J	0.075	0.17	1

The LCS data is outside the QC limits for various compounds. Results from the reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method. Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.066	U	0.066	0.17	1
01363	Alpha BHC	319-84-6	0.088	J	0.034	0.17	1
01363	Beta BHC	319-85-7	0.12	J	0.060	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.093	J	0.034	0.17	1
01363	Chlordane	57-74-9	0.80	U	0.80	3.4	1
01363	p,p-DDD	72-54-8	0.18	J	0.066	0.34	1
01363	p,p-DDE	72-55-9	0.16	J	0.066	0.34	1
01363	p,p-DDT	50-29-3	0.16	J	0.066	0.34	1
01363	Delta BHC	319-86-8	0.11	J	0.036	0.17	1
01363	Dieldrin	60-57-1	0.12	J	0.066	0.34	1
01363	Endosulfan I	959-98-8	0.044	U	0.044	0.17	1
01363	Endosulfan II	33213-65-9	0.11	J	0.066	0.34	1
01363	Endosulfan Sulfate	1031-07-8	0.12	J	0.066	0.34	1
01363	Endrin	72-20-8	0.14	J	0.066	0.34	1
01363	Endrin Aldehyde	7421-93-4	0.12	J	0.066	0.34	1
01363	Endrin Ketone	53494-70-5	0.14	J	0.066	0.34	1
01363	Heptachlor	76-44-8	0.094	J	0.060	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.068	J	0.034	0.17	1
01363	Methoxychlor	72-43-5	0.78	J	0.34	1.7	1
01363	Mirex	2385-85-5	0.066	U	0.066	0.34	1
01363	Toxaphene	8001-35-2	2.2	U	2.2	6.6	1

The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3	1
10225	PCB-1016	12674-11-2	1.4	J	0.33	1.7	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-003-SA8S-SS-0.0-0.5RL LCS Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423861
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5802 SDG#: DE258-02RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7	1
10225	PCB-1260	11096-82-5	1.6	J	0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112910026A	10/21/2011 03:55	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 18:55	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/17/2011 21:59	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	2	112910026A	10/19/2011 10:45	Kelli M Barto	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-005-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SS-0.0-0.5

LLI Sample # SW 6423862
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:40

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5803 SDG#: DE258-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	68	U	68	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	68	U	68	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-005-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SS-0.0-0.5

LLI Sample # SW 6423862
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:40

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5803 SDG#: DE258-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.68	U	0.68	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.68	U	0.68	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.68	U	0.68	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.68	U	0.68	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.68	U	0.68	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18	1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18	1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7	1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18	1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	19		6.1	18	1
10138	Fluoranthene	206-44-0	0.68	U	0.68	1.7	1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7	1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18	1
10138	Phenanthrene	85-01-8	0.68	U	0.68	1.7	1
10138	Pyrene	129-00-0	0.68	U	0.68	1.7	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 7.6 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2	1
10401	2,4-DB	94-82-6	0.90	U	0.90	1.7	1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2	1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7	1
10401	MCPA	94-74-6	78	U	78	260	1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260	1
10401	2,4,5-T	93-76-5	0.22		0.084	0.17	1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17	1

The LCS data is outside the QC limits for various compounds. Results from the

*=This limit was used in the evaluation of the final result

Sample Description: **SL-005-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SS-0.0-0.5

LLI Sample # SW 6423862
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:40

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5803 SDG#: DE258-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method. Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	0.82	U	0.82	3.5	1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35	1
01363	p,p-DDE	72-55-9	0.068	U	0.068	0.35	1
01363	p,p-DDT	50-29-3	0.068	U	0.068	0.35	1
01363	Delta BHC	319-86-8	0.037	U	0.037	0.17	1
01363	Dieldrin	60-57-1	0.068	U	0.068	0.35	1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17	1
01363	Endosulfan II	33213-65-9	0.068	U	0.068	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35	1
01363	Endrin	72-20-8	0.068	U	0.068	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.068	U	0.068	0.35	1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35	1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.068	U	0.068	0.35	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.8	1
	The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7	1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,100		6.16	20.4	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-005-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SS-0.0-0.5

LLI Sample # SW 6423862
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:40

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5803 SDG#: DE258-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
07914	Boron	7440-42-8	8.92		0.366	5.09	1
01650	Calcium	7440-70-2	239,000		12.7	102	5
01654	Iron	7439-89-6	11,100		2.66	20.4	1
01656	Lithium	7439-93-2	12.7		0.63	2.0	1
01657	Magnesium	7439-95-4	3,930		0.448	10.2	1
06958	Manganese	7439-96-5	167		0.0366	0.509	1
10145	Phosphorus	7723-14-0	228		0.356	10.2	1
01662	Potassium	7440-09-7	1,460		11.5	50.9	1
01667	Sodium	7440-23-5	120		6.05	102	1
07968	Strontium	7440-24-6	182		0.0254	0.509	1
06969	Tin	7440-31-5	1.44	J	0.326	10.2	1
06970	Titanium	7440-32-6	542		0.0722	1.02	1
10146	Zirconium	7440-67-7	2.30	J	0.468	5.09	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.123	J	0.0753	0.204	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.49		0.0814	0.407	2
06126	Barium	7440-39-3	82.4		0.108	0.407	2
06127	Beryllium	7440-41-7	0.478		0.0163	0.102	2
06128	Cadmium	7440-43-9	0.232		0.0448	0.102	2
06131	Chromium	7440-47-3	23.8		0.122	0.407	2
06132	Cobalt	7440-48-4	4.85		0.0204	0.102	2
06133	Copper	7440-50-8	9.34		0.0806	0.403	2
06135	Lead	7439-92-1	6.61		0.0104	0.204	2
06138	Molybdenum	7439-98-7	0.136		0.0509	0.102	2
06139	Nickel	7440-02-0	9.79		0.102	0.407	2
06141	Selenium	7782-49-2	0.143	J	0.0590	0.407	2
06142	Silver	7440-22-4	0.0144	U	0.0144	0.102	2
06145	Thallium	7440-28-0	0.123		0.0305	0.102	2
06148	Vanadium	7440-62-2	37.4		0.0224	0.102	2
06149	Zinc	7440-66-6	27.9		0.570	3.05	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0069	U	0.0069	0.0987	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.4		0.21	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-005-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SS-0.0-0.5

LLI Sample # SW 6423862
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:40

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5803 SDG#: DE258-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.13	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	2.7	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 05:03	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/13/2011 20:36	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112810010A	10/12/2011 04:27	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 19:09	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/17/2011 22:18	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112810010A	10/10/2011 08:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 17:20	John P Hook	1
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 17:20	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/13/2011 11:57	Eric L Eby	5
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 17:20	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 17:20	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 17:20	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 17:20	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 17:20	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 17:20	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 17:20	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 17:20	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-005-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SS-0.0-0.5

LLI Sample # SW 6423862
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:40

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5803 SDG#: DE258-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 17:20	John P Hook	1
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 11:21	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 17:20	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 04:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 04:45	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 04:45	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 04:45	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 04:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 04:45	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 04:45	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112801026001A	10/11/2011 05:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 04:45	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 04:45	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 04:45	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 04:45	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 04:45	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 04:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 04:45	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 04:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:26	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112801026001	10/10/2011 11:34	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201A	10/15/2011 15:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202A	10/13/2011 14:29	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 14:52	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201A	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285020A	10/12/2011 18:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402A	10/12/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-007-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SS-0.0-0.5

LLI Sample # SW 6423863
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:00

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5804 SDG#: DE258-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-007-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SS-0.0-0.5

LLI Sample # SW 6423863
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:00

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5804 SDG#: DE258-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	20		6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.2	U	6.2	19	1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7	1

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4	1
10401	2,4-DB	94-82-6	0.65	U	0.65	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8	1
10401	MCPA	94-74-6	79	U	79	260	1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260	1
10401	2,4,5-T	93-76-5	0.10	U	0.10	0.18	1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18	1

The LCS data is outside the QC limits for various compounds. Results from the reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-007-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SS-0.0-0.5

LLI Sample # SW 6423863
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:00

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5804 SDG#: DE258-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	1.9	J	0.83	3.5	1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.35	1
01363	p,p-DDE	72-55-9	0.17	U	0.17	0.35	1
01363	p,p-DDT	50-29-3	0.19	U	0.19	0.35	1
01363	Delta BHC	319-86-8	0.045	J	0.037	0.17	1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.35	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.35	1
01363	Endrin	72-20-8	0.069	U	0.069	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.35	U	0.35	0.35	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.35	1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.069	U	0.069	0.35	1
01363	Toxaphene	8001-35-2	4.7	U	4.7	6.9	1
	The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,700		6.27	20.7	1
07914	Boron	7440-42-8	9.04		0.373	5.18	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-007-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SS-0.0-0.5

LLI Sample # SW 6423863
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:00

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5804 SDG#: DE258-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	242,000		12.9	104	5
01654	Iron	7439-89-6	13,600		2.70	20.7	1
01656	Lithium	7439-93-2	15.3		0.64	2.1	1
01657	Magnesium	7439-95-4	4,330		0.456	10.4	1
06958	Manganese	7439-96-5	180		0.0373	0.518	1
10145	Phosphorus	7723-14-0	279		0.362	10.4	1
01662	Potassium	7440-09-7	1,640		11.7	51.8	1
01667	Sodium	7440-23-5	117		6.16	104	1
07968	Strontium	7440-24-6	142		0.0259	0.518	1
06969	Tin	7440-31-5	1.50	J	0.331	10.4	1
06970	Titanium	7440-32-6	674		0.0743	1.05	1
10146	Zirconium	7440-67-7	2.00	J	0.476	5.18	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.140	J	0.0766	0.207	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.87		0.0829	0.414	2
06126	Barium	7440-39-3	88.6		0.110	0.414	2
06127	Beryllium	7440-41-7	0.418		0.0166	0.104	2
06128	Cadmium	7440-43-9	0.225		0.0456	0.104	2
06131	Chromium	7440-47-3	23.8		0.124	0.414	2
06132	Cobalt	7440-48-4	6.87		0.0207	0.104	2
06133	Copper	7440-50-8	12.6		0.0829	0.414	2
06135	Lead	7439-92-1	10.9		0.0106	0.207	2
06138	Molybdenum	7439-98-7	0.277		0.0518	0.104	2
06139	Nickel	7440-02-0	13.2		0.104	0.414	2
06141	Selenium	7782-49-2	0.213	J	0.0601	0.414	2
06142	Silver	7440-22-4	0.0147	U	0.0147	0.104	2
06145	Thallium	7440-28-0	0.176		0.0311	0.104	2
06148	Vanadium	7440-62-2	38.5		0.0228	0.104	2
06149	Zinc	7440-66-6	34.9		0.580	3.11	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0161	J	0.0071	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.85	U	0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	2.2		0.21	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-007-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SS-0.0-0.5

LLI Sample # SW 6423863
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:00

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5804 SDG#: DE258-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.31	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	4.4	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 05:28	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/13/2011 21:08	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112810010A	10/12/2011 04:54	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 19:24	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/17/2011 22:37	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112810010A	10/10/2011 08:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 17:24	John P Hook	1
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 17:24	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/13/2011 12:08	Eric L Eby	5
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 17:24	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 17:24	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 17:24	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 17:24	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 17:24	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 17:24	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 17:24	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 17:24	John P Hook	1
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 17:24	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-007-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SS-0.0-0.5

LLI Sample # SW 6423863
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:00

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5804 SDG#: DE258-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 11:33	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 17:24	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 04:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 04:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 04:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 04:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 04:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 04:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 04:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112801026001A	10/11/2011 05:27	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 04:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/10/2011 09:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 04:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 04:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 04:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 04:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 04:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 04:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:27	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112801026001	10/10/2011 11:34	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201A	10/15/2011 15:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202A	10/13/2011 14:52	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 15:28	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201A	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285020A	10/12/2011 18:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402A	10/12/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-013-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SS-0.0-0.5

LLI Sample # SW 6423864
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5805 SDG#: DE258-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	68	U	68	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	68	U	68	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-013-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SS-0.0-0.5

LLI Sample # SW 6423864
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5805 SDG#: DE258-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7	1
10138	Acenaphthylene	208-96-8	0.41	J	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.68	U	0.68	1.7	1
10138	Benzo(a)pyrene	50-32-8	1.7	J	0.68	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	5.3		0.68	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	1.0	J	0.68	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.68	U	0.68	1.7	1
10138	Butylbenzylphthalate	85-68-7	27		6.2	18	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	18	1
10138	Chrysene	218-01-9	0.89	J	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	18	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J	6.2	18	1
10138	Fluoranthene	206-44-0	1.3	J	0.68	1.7	1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.93	J	0.68	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7	1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	18	1
10138	Phenanthrene	85-01-8	0.68	U	0.68	1.7	1
10138	Pyrene	129-00-0	0.80	J	0.68	1.7	1

The following compounds were detected in the method blank at the respective concentrations of:
bis(2-ethylhexyl)phthalate 7.6 ug/kg
indeno(1,2,3-cd)pyrene 1.1 ug/kg
benzo(g,h,i)perylene 1.5 ug/kg
These blank values were not subtracted from the analytical results. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Bis(2-ethylhexyl)phthalate was again detected in the re-analysis of the sample. The data reported here is from the initial extraction of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.5	U	4.5	9.3	1
10401	2,4-DB	94-82-6	1.4	J	0.64	1.7	1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-013-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SS-0.0-0.5

LLI Sample # SW 6423864
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5805 SDG#: DE258-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7	1
10401	MCPA	94-74-6	380		78	260	1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260	1
10401	2,4,5-T	93-76-5	0.10	U	0.10	0.17	1
10401	2,4,5-TP	93-72-1	0.26		0.077	0.17	1

The LCS data is outside the QC limits for various compounds. Results from the reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method. Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that MCPA and 2,4,5-TP were not detected in the reextract.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.060	J	0.035	0.17	1
01363	Chlordane	57-74-9	2.7	J	0.82	3.5	1
01363	p,p-DDD	72-54-8	0.068	U	0.068	0.35	1
01363	p,p-DDE	72-55-9	1.1		0.068	0.35	1
01363	p,p-DDT	50-29-3	1.9		0.068	0.35	1
01363	Delta BHC	319-86-8	0.14	U	0.14	0.17	1
01363	Dieldrin	60-57-1	0.068	U	0.068	0.35	1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17	1
01363	Endosulfan II	33213-65-9	0.068	U	0.068	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35	1
01363	Endrin	72-20-8	0.068	U	0.068	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.25	U	0.25	0.35	1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35	1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.27	U	0.27	0.35	1
01363	Toxaphene	8001-35-2	4.3	U	4.3	6.8	1

The sample was injected after instrument maintenance and a new calibration.
Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	2.5	J	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-013-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SS-0.0-0.5

LLI Sample # SW 6423864
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5805 SDG#: DE258-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7	1
10225	PCB-1254	11097-69-1	1.5	J	0.34	1.7	1
10225	PCB-1260	11096-82-5	1.6	J	0.40	1.7	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,200		5.99	19.8	1
07914	Boron	7440-42-8	7.63		0.356	4.95	1
01650	Calcium	7440-70-2	35,400		2.48	19.8	1
01654	Iron	7439-89-6	21,500		2.58	19.8	1
01656	Lithium	7439-93-2	25.1		0.61	2.0	1
01657	Magnesium	7439-95-4	5,380		0.436	9.90	1
06958	Manganese	7439-96-5	328		0.0356	0.495	1
10145	Phosphorus	7723-14-0	469		0.347	9.90	1
01662	Potassium	7440-09-7	3,850		11.2	49.5	1
01667	Sodium	7440-23-5	72.2	J	5.89	99.0	1
07968	Strontium	7440-24-6	37.8		0.0248	0.495	1
06969	Tin	7440-31-5	2.24	J	0.317	9.90	1
06970	Titanium	7440-32-6	1,100		0.0717	1.01	1
10146	Zirconium	7440-67-7	1.71	J	0.456	4.95	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.149	J	0.0762	0.206	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.58		0.0824	0.412	2
06126	Barium	7440-39-3	108		0.109	0.412	2
06127	Beryllium	7440-41-7	0.690		0.0165	0.103	2
06128	Cadmium	7440-43-9	0.235		0.0453	0.103	2
06131	Chromium	7440-47-3	25.8		0.124	0.412	2
06132	Cobalt	7440-48-4	8.91		0.0206	0.103	2
06133	Copper	7440-50-8	14.3		0.0816	0.408	2
06135	Lead	7439-92-1	13.9		0.0105	0.206	2
06138	Molybdenum	7439-98-7	2.03		0.0515	0.103	2
06139	Nickel	7440-02-0	17.5		0.103	0.412	2
06141	Selenium	7782-49-2	0.221	J	0.0597	0.412	2
06142	Silver	7440-22-4	0.0298	J	0.0146	0.103	2
06145	Thallium	7440-28-0	0.351		0.0309	0.103	2
06148	Vanadium	7440-62-2	49.8		0.0227	0.103	2
06149	Zinc	7440-66-6	82.8		0.577	3.09	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0194	J	0.0070	0.100	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-013-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SS-0.0-0.5

LLI Sample # SW 6423864
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5805 SDG#: DE258-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	30.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.00		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.9		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 05:54	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/13/2011 21:39	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112810010A	10/12/2011 05:21	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 20:36	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/17/2011 22:55	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112810010A	10/10/2011 08:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-013-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SS-0.0-0.5

LLI Sample # SW 6423864
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5805 SDG#: DE258-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 11:37	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 17:28	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 04:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 04:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 04:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 04:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 04:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 04:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 04:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112801026001A	10/11/2011 05:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 04:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 04:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 04:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 04:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 04:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 04:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 04:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 04:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:30	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112801026001	10/10/2011 11:34	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201A	10/15/2011 15:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202A	10/13/2011 15:15	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 15:35	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201A	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285020A	10/12/2011 18:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402A	10/12/2011 10:00	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-013-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SS-0.0-0.5

LLI Sample # SW 6423864
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:55

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5805 SDG#: DE258-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-014-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SS-0.0-0.5

LLI Sample # SW 6423865
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:10

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5806 SDG#: DE258-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-014-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SS-0.0-0.5

LLI Sample # SW 6423865
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:10

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5806 SDG#: DE258-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.78	J	0.35	1.7	1
10138	Anthracene	120-12-7	0.42	J	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	4.0		0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	3.3		0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	16		0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	1.4	J	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	47		6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	2.7		0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	1.1	J	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	18	J	6.2	19	1
10138	Fluoranthene	206-44-0	4.6		0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.3	J	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	1.6	J	0.69	1.7	1
10138	Pyrene	129-00-0	2.8		0.69	1.7	1

The following compounds were detected in the method blank at the respective concentrations of:
bis(2-ethylhexyl)phthalate 7.6 ug/kg
indeno(1,2,3-cd)pyrene 1.1 ug/kg
dibenz(a,h)anthracene 1.4 ug/kg
benzo(g,h,i)perylene 1.5 ug/kg
These blank values were not subtracted from the analytical results. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Bis(2-ethylhexyl)phthalate was again detected in the re-analysis of the sample. The data reported here is from the initial extraction of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4	1
10401	2,4-DB	94-82-6	0.94	J	0.65	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-014-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SS-0.0-0.5

LLI Sample # SW 6423865
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:10

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5806 SDG#: DE258-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	Dicamba	1918-00-9	0.42	U	0.42	1.2	1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8	1
10401	MCPA	94-74-6	79	U	79	260	1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260	1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18	1
10401	2,4,5-TP	93-72-1	0.21		0.078	0.18	1

The LCS data is outside the QC limits for various compounds. Results from the reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method. Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that 2,4,5-TP was not detected in the reextract.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	2.4	J	0.83	3.5	1
01363	p,p-DDD	72-54-8	0.20	U	0.20	0.35	1
01363	p,p-DDE	72-55-9	1.1		0.069	0.35	1
01363	p,p-DDT	50-29-3	0.80		0.069	0.35	1
01363	Delta BHC	319-86-8	0.054	J	0.038	0.17	1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.35	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.35	1
01363	Endrin	72-20-8	0.069	U	0.069	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.22	U	0.22	0.35	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.35	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.098	U	0.098	0.35	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	6.9	1

The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.4	J	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-014-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SS-0.0-0.5

LLI Sample # SW 6423865
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:10

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5806 SDG#: DE258-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	1.4	J	0.34	1.8	1
10225	PCB-1260	11096-82-5	2.0		0.41	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,300		6.32	20.9	1
07914	Boron	7440-42-8	12.2		0.376	5.22	1
01650	Calcium	7440-70-2	68,000		13.0	104	5
01654	Iron	7439-89-6	24,200		2.72	20.9	1
01656	Lithium	7439-93-2	23.9		0.65	2.1	1
01657	Magnesium	7439-95-4	6,800		0.459	10.4	1
06958	Manganese	7439-96-5	402		0.0376	0.522	1
10145	Phosphorus	7723-14-0	615		0.365	10.4	1
01662	Potassium	7440-09-7	4,610		11.8	52.2	1
01667	Sodium	7440-23-5	94.3	J	6.21	104	1
07968	Strontium	7440-24-6	73.1		0.0261	0.522	1
06969	Tin	7440-31-5	2.20	J	0.334	10.4	1
06970	Titanium	7440-32-6	1,050		0.0741	1.04	1
10146	Zirconium	7440-67-7	2.13	J	0.480	5.22	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.146	J	0.0736	0.199	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.92		0.0795	0.398	2
06126	Barium	7440-39-3	115		0.105	0.398	2
06127	Beryllium	7440-41-7	0.748		0.0159	0.0994	2
06128	Cadmium	7440-43-9	0.324		0.0437	0.0994	2
06131	Chromium	7440-47-3	32.3		0.119	0.398	2
06132	Cobalt	7440-48-4	9.79		0.0199	0.0994	2
06133	Copper	7440-50-8	19.2		0.0795	0.398	2
06135	Lead	7439-92-1	14.9		0.0101	0.199	2
06138	Molybdenum	7439-98-7	0.531		0.0497	0.0994	2
06139	Nickel	7440-02-0	21.1		0.0994	0.398	2
06141	Selenium	7782-49-2	0.315	J	0.0577	0.398	2
06142	Silver	7440-22-4	0.0323	J	0.0141	0.0994	2
06145	Thallium	7440-28-0	0.367		0.0298	0.0994	2
06148	Vanadium	7440-62-2	51.4		0.0219	0.0994	2
06149	Zinc	7440-66-6	72.3		0.557	2.98	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0138	J	0.0068	0.0965	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-014-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SS-0.0-0.5

LLI Sample # SW 6423865
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:10

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5806 SDG#: DE258-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.84	U	0.84	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40	J	0.21	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.87		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.2		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 06:19	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/13/2011 22:11	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112810010A	10/12/2011 05:49	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 19:38	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/17/2011 23:33	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112810010A	10/10/2011 08:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 17:32	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-014-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SS-0.0-0.5

LLI Sample # SW 6423865
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:10

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5806 SDG#: DE258-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 17:32	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/13/2011 12:33	Eric L Eby	5
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 17:32	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 17:32	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 17:32	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 17:32	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 17:32	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 17:32	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 17:32	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 17:32	John P Hook	1
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 17:32	John P Hook	1
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 11:42	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 17:32	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 04:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 04:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 04:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 04:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201A	10/15/2011 15:41	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202A	10/13/2011 15:38	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 15:57	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201A	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285020A	10/12/2011 18:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402A	10/12/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-014-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SS-0.0-0.5

LLI Sample # SW 6423865
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:10

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5806 SDG#: DE258-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-015-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SS-0.0-0.5

LLI Sample # SW 6423866
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:30

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5807 SDG#: DE258-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-015-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SS-0.0-0.5

LLI Sample # SW 6423866
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:30

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5807 SDG#: DE258-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	1.4	J	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	8.6	J	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.2	U	6.2	19	1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7	1

Surrogate recoveries are outside of QC limits for the initial GC/MS semivolatile analysis. The analysis was repeated outside of the required hold time and the surrogate recoveries are within the limits. The data reported is from the initial extraction of the sample.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4	1
10401	2,4-DB	94-82-6	1.8	J	0.64	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.2	1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8	1
10401	MCPA	94-74-6	200	U	200	260	1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260	1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18	1
10401	2,4,5-TP	93-72-1	0.15	U	0.15	0.18	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-015-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SS-0.0-0.5

LLI Sample # SW 6423866
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:30

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5807 SDG#: DE258-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	The LCS data is outside the QC limits for various compounds. Results from the reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method. Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.17	1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.17	1
01363	Chlordane	57-74-9	1.9	J	0.84	3.6	1
01363	p,p-DDD	72-54-8	0.14	U	0.14	0.36	1
01363	p,p-DDE	72-55-9	0.57		0.069	0.36	1
01363	p,p-DDT	50-29-3	0.29	J	0.069	0.36	1
01363	Delta BHC	319-86-8	0.20		0.038	0.17	1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.36	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.36	1
01363	Endrin	72-20-8	0.069	U	0.069	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.17	U	0.17	0.36	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.36	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.17	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7	1
01363	Mirex	2385-85-5	0.069	U	0.069	0.36	1
01363	Toxaphene	8001-35-2	2.7	U	2.7	6.9	1
	The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.55	J	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SS-0.0-0.5

LLI Sample # SW 6423866
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:30

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5807 SDG#: DE258-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,000		6.14	20.3	1
07914	Boron	7440-42-8	10.9		0.366	5.08	1
01650	Calcium	7440-70-2	96,600		12.7	102	5
01654	Iron	7439-89-6	23,400		2.65	20.3	1
01656	Lithium	7439-93-2	22.6		0.63	2.0	1
01657	Magnesium	7439-95-4	6,720		0.447	10.2	1
06958	Manganese	7439-96-5	451		0.0366	0.508	1
10145	Phosphorus	7723-14-0	578		0.355	10.2	1
01662	Potassium	7440-09-7	4,370		11.5	50.8	1
01667	Sodium	7440-23-5	115		6.04	102	1
07968	Strontium	7440-24-6	101		0.0254	0.508	1
06969	Tin	7440-31-5	1.91	J	0.325	10.2	1
06970	Titanium	7440-32-6	1,070		0.0728	1.03	1
10146	Zirconium	7440-67-7	2.65	J	0.467	5.08	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.122	J	0.0759	0.205	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.44		0.0820	0.410	2
06126	Barium	7440-39-3	105		0.109	0.410	2
06127	Beryllium	7440-41-7	0.710		0.0164	0.103	2
06128	Cadmium	7440-43-9	0.338		0.0451	0.103	2
06131	Chromium	7440-47-3	31.3		0.123	0.410	2
06132	Cobalt	7440-48-4	9.63		0.0205	0.103	2
06133	Copper	7440-50-8	18.0		0.0820	0.410	2
06135	Lead	7439-92-1	11.3		0.0105	0.205	2
06138	Molybdenum	7439-98-7	0.491		0.0513	0.103	2
06139	Nickel	7440-02-0	19.2		0.103	0.410	2
06141	Selenium	7782-49-2	0.291	J	0.0595	0.410	2
06142	Silver	7440-22-4	0.0292	J	0.0146	0.103	2
06145	Thallium	7440-28-0	0.356		0.0308	0.103	2
06148	Vanadium	7440-62-2	53.2		0.0226	0.103	2
06149	Zinc	7440-66-6	63.8		0.574	3.08	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0074	J	0.0071	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.84	U	0.84	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-015-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SS-0.0-0.5

LLI Sample # SW 6423866
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:30

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5807 SDG#: DE258-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.74	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	4.4	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 06:44	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/13/2011 22:43	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112810010A	10/12/2011 06:16	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 19:53	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/17/2011 23:52	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112810010A	10/10/2011 08:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 17:37	John P Hook	1
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 17:37	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/13/2011 12:37	Eric L Eby	5
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 17:37	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 17:37	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 17:37	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 17:37	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 17:37	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 17:37	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 17:37	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 17:37	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-015-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SS-0.0-0.5

LLI Sample # SW 6423866
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:30

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5807 SDG#: DE258-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 17:37	John P Hook	1
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 11:46	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 17:37	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 04:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 04:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 04:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 04:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:33	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201A	10/15/2011 15:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202A	10/13/2011 16:01	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 16:04	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201A	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285020A	10/12/2011 18:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402A	10/12/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-024-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SS-0.0-0.5

LLI Sample # SW 6423867
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:15

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5808 SDG#: DE258-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-024-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SS-0.0-0.5

LLI Sample # SW 6423867
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:15

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5808 SDG#: DE258-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.2	U	6.2	19	1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4	1
10401	2,4-DB	94-82-6	0.65	U	0.65	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8	1
10401	MCPA	94-74-6	210	U	210	260	1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260	1
10401	2,4,5-T	93-76-5	0.086	U	0.086	0.18	1
10401	2,4,5-TP	93-72-1	0.20		0.078	0.18	1
	The LCS data is outside the QC limits for various compounds. Results from the reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-024-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SS-0.0-0.5

LLI Sample # SW 6423867
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:15

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5808 SDG#: DE258-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that 2,4,5-TP was not detected in the reextract. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.17	1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.17	1
01363	Chlordane	57-74-9	2.9	J	0.84	3.6	1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.36	1
01363	p,p-DDE	72-55-9	0.62		0.069	0.36	1
01363	p,p-DDT	50-29-3	0.94		0.069	0.36	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.17	1
01363	Dieldrin	60-57-1	0.069	U	0.069	0.36	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.36	1
01363	Endrin	72-20-8	0.069	U	0.069	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.18	U	0.18	0.36	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.36	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.17	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.7	1
01363	Mirex	2385-85-5	0.069	U	0.069	0.36	1
01363	Toxaphene	8001-35-2	2.9	U	2.9	6.9	1
	The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
	The TCX surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.						

*=This limit was used in the evaluation of the final result

Sample Description: **SL-024-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SS-0.0-0.5

LLI Sample # SW 6423867
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:15

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5808 SDG#: DE258-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,800		6.33	20.9	1
07914	Boron	7440-42-8	11.2		0.377	5.23	1
01650	Calcium	7440-70-2	109,000		13.1	105	5
01654	Iron	7439-89-6	25,200		2.73	20.9	1
01656	Lithium	7439-93-2	25.5		0.65	2.1	1
01657	Magnesium	7439-95-4	6,680		0.460	10.5	1
06958	Manganese	7439-96-5	330		0.0377	0.523	1
10145	Phosphorus	7723-14-0	500		0.366	10.5	1
01662	Potassium	7440-09-7	4,220		11.8	52.3	1
01667	Sodium	7440-23-5	104	J	6.22	105	1
07968	Strontium	7440-24-6	106		0.0262	0.523	1
06969	Tin	7440-31-5	2.06	J	0.335	10.5	1
06970	Titanium	7440-32-6	980		0.0721	1.02	1
10146	Zirconium	7440-67-7	3.31	J	0.481	5.23	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.113	J	0.0766	0.207	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.35		0.0829	0.414	2
06126	Barium	7440-39-3	98.8		0.110	0.414	2
06127	Beryllium	7440-41-7	0.684		0.0166	0.104	2
06128	Cadmium	7440-43-9	0.263		0.0456	0.104	2
06131	Chromium	7440-47-3	34.8		0.124	0.414	2
06132	Cobalt	7440-48-4	9.74		0.0207	0.104	2
06133	Copper	7440-50-8	18.4		0.0829	0.414	2
06135	Lead	7439-92-1	16.7		0.0106	0.207	2
06138	Molybdenum	7439-98-7	0.324		0.0518	0.104	2
06139	Nickel	7440-02-0	18.9		0.104	0.414	2
06141	Selenium	7782-49-2	0.631		0.0601	0.414	2
06142	Silver	7440-22-4	0.0209	J	0.0147	0.104	2
06145	Thallium	7440-28-0	0.330		0.0311	0.104	2
06148	Vanadium	7440-62-2	59.0		0.0228	0.104	2
06149	Zinc	7440-66-6	64.6		0.580	3.11	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0193	J	0.0073	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.99	J	0.84	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.73	J	0.21	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-024-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SS-0.0-0.5

LLI Sample # SW 6423867
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:15

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5808 SDG#: DE258-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.60	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	4.4	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 07:09	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/13/2011 23:15	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112810010A	10/12/2011 06:43	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 20:07	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/18/2011 00:11	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112810010A	10/10/2011 08:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 17:41	John P Hook	1
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 17:41	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/13/2011 12:40	Eric L Eby	5
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 17:41	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 17:41	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 17:41	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 17:41	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 17:41	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 17:41	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 17:41	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 17:41	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-024-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SS-0.0-0.5

LLI Sample # SW 6423867
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:15

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5808 SDG#: DE258-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 17:41	John P Hook	1
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 11:51	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 17:41	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 05:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 05:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 05:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 05:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:34	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201A	10/15/2011 16:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202A	10/13/2011 16:24	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 16:26	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201A	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285020A	10/12/2011 18:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402A	10/12/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP01-SA8S-QC-092911 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA8S-QC-092911

LLI Sample # SW 6423868
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:05

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5809 SDG#: DE258-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP01-SA8S-QC-092911 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA8S-QC-092911

LLI Sample # SW 6423868
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:05

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5809 SDG#: DE258-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	16	J	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	J	6.2	19	1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 7.6 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.5	U	4.5	9.3	1
10401	2,4-DB	94-82-6	1.9		0.64	1.8	1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2	1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.8	1
10401	MCPA	94-74-6	180	U	180	260	1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260	1
10401	2,4,5-T	93-76-5	0.33	U	0.33	0.33	1
10401	2,4,5-TP	93-72-1	0.23	U	0.23	0.23	1

The LCS data is outside the QC limits for various compounds. Results from the

*=This limit was used in the evaluation of the final result

Sample Description: **DUP01-SA8S-QC-092911 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA8S-QC-092911

LLI Sample # SW 6423868
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:05

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5809 SDG#: DE258-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	reextraction are within the limits with the exception of dinoseb. Dinoseb recovered at 8%. However, this compound does not recover well with this method. Since the recovery for dinoseb is within our laboratory statistical limits of 0-36%, the data is accepted. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts with the exception that 2,4-DB was not detected in the reextract.						
	Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.068	U	0.068	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.062	U	0.062	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	1.6	J	0.82	3.5	1
01363	p,p-DDD	72-54-8	0.18	U	0.18	0.35	1
01363	p,p-DDE	72-55-9	0.53		0.068	0.35	1
01363	p,p-DDT	50-29-3	0.43	U	0.43	0.43	1
01363	Delta BHC	319-86-8	0.055	J	0.037	0.17	1
01363	Dieldrin	60-57-1	0.068	U	0.068	0.35	1
01363	Endosulfan I	959-98-8	0.045	U	0.045	0.17	1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.068	U	0.068	0.35	1
01363	Endrin	72-20-8	0.068	U	0.068	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.34	U	0.34	0.35	1
01363	Endrin Ketone	53494-70-5	0.068	U	0.068	0.35	1
01363	Heptachlor	76-44-8	0.062	U	0.062	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.035	U	0.035	0.17	1
01363	Methoxychlor	72-43-5	0.35	U	0.35	1.7	1
01363	Mirex	2385-85-5	0.12	U	0.12	0.35	1
01363	Toxaphene	8001-35-2	7.8	U	7.8	7.8	1
	The sample was injected after instrument maintenance and a new calibration. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.						
	Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7	1
10225	PCB-1260	11096-82-5	0.54	J	0.40	1.7	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7	1

Sample Description: **DUP01-SA8S-QC-092911 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA8S-QC-092911

LLI Sample # SW 6423868
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:05

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5809 SDG#: DE258-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,400		6.18	20.4	1
07914	Boron	7440-42-8	10.4		0.368	5.11	1
01650	Calcium	7440-70-2	134,000		12.8	102	5
01654	Iron	7439-89-6	21,300		2.67	20.4	1
01656	Lithium	7439-93-2	18.9		0.63	2.0	1
01657	Magnesium	7439-95-4	6,510		0.450	10.2	1
06958	Manganese	7439-96-5	268		0.0368	0.511	1
10145	Phosphorus	7723-14-0	455		0.358	10.2	1
01662	Potassium	7440-09-7	3,360		11.5	51.1	1
01667	Sodium	7440-23-5	116		6.08	102	1
07968	Strontium	7440-24-6	151		0.0255	0.511	1
06969	Tin	7440-31-5	1.99	J	0.327	10.2	1
06970	Titanium	7440-32-6	834		0.0733	1.03	1
10146	Zirconium	7440-67-7	3.54	J	0.470	5.11	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.253		0.0756	0.204	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.86		0.0817	0.409	2
06126	Barium	7440-39-3	108		0.108	0.409	2
06127	Beryllium	7440-41-7	0.749		0.0163	0.102	2
06128	Cadmium	7440-43-9	0.343		0.0450	0.102	2
06131	Chromium	7440-47-3	32.6		0.123	0.409	2
06132	Cobalt	7440-48-4	10.2		0.0204	0.102	2
06133	Copper	7440-50-8	22.9		0.0817	0.409	2
06135	Lead	7439-92-1	22.9		0.0104	0.204	2
06138	Molybdenum	7439-98-7	0.440		0.0511	0.102	2
06139	Nickel	7440-02-0	19.8		0.102	0.409	2
06141	Selenium	7782-49-2	0.284	J	0.0593	0.409	2
06142	Silver	7440-22-4	0.0184	J	0.0145	0.102	2
06145	Thallium	7440-28-0	0.303		0.0307	0.102	2
06148	Vanadium	7440-62-2	61.4		0.0225	0.102	2
06149	Zinc	7440-66-6	64.6		0.572	3.07	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0137	J	0.0070	0.0991	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.82	U	0.82	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.49	J	0.21	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP01-SA8S-QC-092911 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA8S-QC-092911

LLI Sample # SW 6423868
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:05

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5809 SDG#: DE258-09FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.47	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	3.1	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 07:34	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/13/2011 23:47	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112810010A	10/12/2011 07:11	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112810037A	10/14/2011 20:22	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/18/2011 00:29	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112810037A	10/14/2011 09:07	Sherry L Morrow	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112810010A	10/10/2011 08:00	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 17:46	John P Hook	1
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 17:46	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/13/2011 12:44	Eric L Eby	5
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 17:46	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 17:46	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 17:46	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 17:46	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 17:46	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 17:46	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 17:46	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 17:46	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP01-SA8S-QC-092911 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA8S-QC-092911

LLI Sample # SW 6423868
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:05

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5809 SDG#: DE258-09FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 17:46	John P Hook	1
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 11:55	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 17:46	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 05:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 05:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 05:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 05:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:35	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201A	10/15/2011 16:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202A	10/13/2011 16:47	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 16:33	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201A	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285020A	10/12/2011 18:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402A	10/12/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-126-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA7-SB-4.0-5.0

LLI Sample # SW 6423869
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:33

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5810 SDG#: DE258-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-126-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-126-SA7-SB-4.0-5.0

LLI Sample # SW 6423869
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:33

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5810 SDG#: DE258-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	2.0		0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19	1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-126-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA7-SB-4.0-5.0

LLI Sample # SW 6423869
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:33

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5810 SDG#: DE258-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,600		6.52	21.6	1
07914	Boron	7440-42-8	2.58	J	0.388	5.39	1
01650	Calcium	7440-70-2	2,110		2.69	21.6	1
01654	Iron	7439-89-6	19,500		2.81	21.6	1
01656	Lithium	7439-93-2	24.3		0.67	2.2	1
01657	Magnesium	7439-95-4	3,780		0.474	10.8	1
06958	Manganese	7439-96-5	282		0.0388	0.539	1
10145	Phosphorus	7723-14-0	282		0.377	10.8	1
01662	Potassium	7440-09-7	4,020		12.2	53.9	1
01667	Sodium	7440-23-5	85.6	J	6.41	108	1
07968	Strontium	7440-24-6	19.5		0.0269	0.539	1
06969	Tin	7440-31-5	2.45	J	0.345	10.8	1
06970	Titanium	7440-32-6	1,250		0.0736	1.04	1
10146	Zirconium	7440-67-7	1.76	J	0.496	5.39	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0855	J	0.0782	0.211	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.03		0.0845	0.423	2
06126	Barium	7440-39-3	134		0.112	0.423	2
06127	Beryllium	7440-41-7	0.667		0.0169	0.106	2
06128	Cadmium	7440-43-9	0.164		0.0465	0.106	2
06131	Chromium	7440-47-3	16.8		0.127	0.423	2
06132	Cobalt	7440-48-4	6.53		0.0211	0.106	2
06133	Copper	7440-50-8	9.64		0.0862	0.431	2
06135	Lead	7439-92-1	6.61		0.0108	0.211	2
06138	Molybdenum	7439-98-7	0.878		0.0528	0.106	2
06139	Nickel	7440-02-0	12.2		0.106	0.423	2
06141	Selenium	7782-49-2	0.0991	J	0.0613	0.423	2
06142	Silver	7440-22-4	0.0360	J	0.0150	0.106	2
06145	Thallium	7440-28-0	0.357		0.0317	0.106	2
06148	Vanadium	7440-62-2	34.5		0.0232	0.106	2
06149	Zinc	7440-66-6	69.6		0.592	3.17	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	U	0.0073	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.86	U	0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-126-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-126-SA7-SB-4.0-5.0

LLI Sample # SW 6423869
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:33

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5810 SDG#: DE258-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.99		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.2		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 07:59	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/14/2011 00:18	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/18/2011 01:07	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-126-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA7-SB-4.0-5.0

LLI Sample # SW 6423869
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:33

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5810 SDG#: DE258-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 12:00	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 17:50	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 05:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 05:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 05:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 05:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 05:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 05:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 05:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112801026001A	10/11/2011 05:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 05:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 05:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 05:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 05:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 05:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 05:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 05:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 05:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:36	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112801026001	10/10/2011 11:34	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201B	10/15/2011 16:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202B	10/13/2011 18:42	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 16:48	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201B	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285202B	10/12/2011 18:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402B	10/12/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-127-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-127-SA7-SB-4.0-5.0

LLI Sample # SW 6423870
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:00

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5811 SDG#: DE258-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	70	U	70	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	70	U	70	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-127-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-127-SA7-SB-4.0-5.0

LLI Sample # SW 6423870
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:00

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5811 SDG#: DE258-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7	1
10138	Acenaphthylene	208-96-8	0.58	J	0.35	1.7	1
10138	Anthracene	120-12-7	0.83	J	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	2.9		0.70	1.7	1
10138	Benzo(a)pyrene	50-32-8	1.9		0.70	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	3.4		0.70	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	1.3	J	0.70	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	2.5		0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	J	6.3	19	1
10138	Fluoranthene	206-44-0	8.3		0.70	1.7	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	J	0.70	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	4.6		0.70	1.7	1
10138	Pyrene	129-00-0	5.3		0.70	1.7	1
	The following compounds were detected in the method blank at the respective concentrations of: bis(2-ethylhexyl)phthalate 7.6 ug/kg indeno(1,2,3-cd)pyrene 1.1 ug/kg These blank values were not subtracted from the analytical results. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. These compounds were not detected in the re-analysis of the sample. The data reported here is from the initial extraction of the sample.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-127-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-127-SA7-SB-4.0-5.0

LLI Sample # SW 6423870
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:00

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5811 SDG#: DE258-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	9,250		6.20	20.5	1
07914	Boron	7440-42-8	1.20	J	0.369	5.13	1
01650	Calcium	7440-70-2	4,850		2.56	20.5	1
01654	Iron	7439-89-6	16,600		2.68	20.5	1
01656	Lithium	7439-93-2	27.5		0.64	2.1	1
01657	Magnesium	7439-95-4	4,000		0.451	10.3	1
06958	Manganese	7439-96-5	248		0.0369	0.513	1
10145	Phosphorus	7723-14-0	308		0.359	10.3	1
01662	Potassium	7440-09-7	2,940		11.6	51.3	1
01667	Sodium	7440-23-5	81.2	J	6.10	103	1
07968	Strontium	7440-24-6	13.2		0.0256	0.513	1
06969	Tin	7440-31-5	2.26	J	0.328	10.3	1
06970	Titanium	7440-32-6	1,080		0.0735	1.04	1
10146	Zirconium	7440-67-7	0.573	J	0.472	5.13	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0860	J	0.0766	0.207	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.12		0.0829	0.414	2
06126	Barium	7440-39-3	90.8		0.110	0.414	2
06127	Beryllium	7440-41-7	0.407		0.0166	0.104	2
06128	Cadmium	7440-43-9	0.0757	J	0.0456	0.104	2
06131	Chromium	7440-47-3	13.2		0.124	0.414	2
06132	Cobalt	7440-48-4	4.99		0.0207	0.104	2
06133	Copper	7440-50-8	5.08		0.0812	0.406	2
06135	Lead	7439-92-1	3.75		0.0106	0.207	2
06138	Molybdenum	7439-98-7	0.289		0.0518	0.104	2
06139	Nickel	7440-02-0	8.73		0.104	0.414	2
06141	Selenium	7782-49-2	0.0601	U	0.0601	0.414	2
06142	Silver	7440-22-4	0.0147	U	0.0147	0.104	2
06145	Thallium	7440-28-0	0.271		0.0311	0.104	2
06148	Vanadium	7440-62-2	28.6		0.0228	0.104	2
06149	Zinc	7440-66-6	60.3		0.580	3.11	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-127-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-127-SA7-SB-4.0-5.0

LLI Sample # SW 6423870
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:00

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5811 SDG#: DE258-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071 U	0.0071	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.0 J	0.84	1.0	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4 U	9.4	31.4	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21 U	0.21	1.0	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.63	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.4	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 08:24	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/14/2011 00:50	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/18/2011 02:41	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-127-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-127-SA7-SB-4.0-5.0

LLI Sample # SW 6423870
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:00

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5811 SDG#: DE258-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 12:04	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 17:54	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 05:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 05:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 05:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 05:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 05:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 05:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 05:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112801026001A	10/11/2011 05:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 05:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 05:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 05:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 05:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 05:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 05:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 05:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 05:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:37	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112801026001	10/10/2011 11:34	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201B	10/15/2011 17:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202B	10/13/2011 17:10	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 17:02	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201B	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285202B	10/12/2011 18:30	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402B	10/12/2011 10:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-177-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-177-SA7-SB-3.0-4.0

LLI Sample # SW 6423871
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:50

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5812 SDG#: DE258-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	70	U	70	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	70	U	70	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-177-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-177-SA7-SB-3.0-4.0

LLI Sample # SW 6423871
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:50

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5812 SDG#: DE258-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
	The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	J	6.3	19	1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.8	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.8	1
10138	Pyrene	129-00-0	0.70	U	0.70	1.8	1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 7.6 ug/kg. The blank value was not subtracted from the analytical result.						
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1	25.61
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-177-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-177-SA7-SB-3.0-4.0

LLI Sample # SW 6423871
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:50

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5812 SDG#: DE258-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530	1
10501	Isopropanol	67-63-0	110	U	110	530	1
10501	Methanol	67-56-1	110	U	110	530	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11	1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11	1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3	1
10199	EFH (C15-C20)	n.a.	1.4		0.42	1.3	1
10199	EFH (C21-C30)	n.a.	2.0		0.42	1.3	1
10199	EFH (C30 - C40)	n.a.	4.2		0.42	1.3	1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,800		6.16	20.4	1
07914	Boron	7440-42-8	1.87	J	0.366	5.09	1
01650	Calcium	7440-70-2	1,670		2.54	20.4	1
01654	Iron	7439-89-6	16,200		2.66	20.4	1
01656	Lithium	7439-93-2	21.9		0.63	2.0	1
01657	Magnesium	7439-95-4	3,280		0.448	10.2	1
06958	Manganese	7439-96-5	191		0.0366	0.509	1
10145	Phosphorus	7723-14-0	210		0.356	10.2	1
01662	Potassium	7440-09-7	2,650		11.5	50.9	1
01667	Sodium	7440-23-5	108		6.05	102	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-177-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-177-SA7-SB-3.0-4.0

LLI Sample # SW 6423871
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:50

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5812 SDG#: DE258-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
07968	Strontium	7440-24-6	11.4		0.0254	0.509	1
06969	Tin	7440-31-5	2.38	J	0.326	10.2	1
06970	Titanium	7440-32-6	1,080		0.0737	1.04	1
10146	Zirconium	7440-67-7	0.838	J	0.468	5.09	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0768	U	0.0768	0.207	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.16		0.0830	0.415	2
06126	Barium	7440-39-3	102		0.110	0.415	2
06127	Beryllium	7440-41-7	0.735		0.0166	0.104	2
06128	Cadmium	7440-43-9	0.0806	J	0.0456	0.104	2
06131	Chromium	7440-47-3	15.9		0.124	0.415	2
06132	Cobalt	7440-48-4	5.11		0.0207	0.104	2
06133	Copper	7440-50-8	5.45		0.0847	0.423	2
06135	Lead	7439-92-1	6.03		0.0106	0.207	2
06138	Molybdenum	7439-98-7	0.627		0.0519	0.104	2
06139	Nickel	7440-02-0	10.3		0.104	0.415	2
06141	Selenium	7782-49-2	0.176	J	0.0602	0.415	2
06142	Silver	7440-22-4	0.0351	J	0.0147	0.104	2
06145	Thallium	7440-28-0	0.323		0.0311	0.104	2
06148	Vanadium	7440-62-2	31.4		0.0228	0.104	2
06149	Zinc	7440-66-6	61.4		0.581	3.11	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	U	0.0071	0.100	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.1		0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1	1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.92		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-177-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-177-SA7-SB-3.0-4.0

LLI Sample # SW 6423871
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:50

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5812 SDG#: DE258-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	5.5	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-177-SA7-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11284SLA026	10/14/2011 08:49	Jennifer R Riggs	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11284SLB026	10/14/2011 01:22	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11284SLB026	10/12/2011 03:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLA026	10/12/2011 03:00	Sherry L Morrow	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11274A34A	10/01/2011 19:58	Laura M Krieger	25.61
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201127325703	09/30/2011 13:07	Larry E Bevins	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201127325703	09/30/2011 13:08	Larry E Bevins	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840021A	10/18/2011 02:59	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840021A	10/11/2011 21:40	Karen L Beyer	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112730032A	10/03/2011 23:18	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112790048A	10/06/2011 21:56	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112790037A	10/08/2011 13:52	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112790036A	10/08/2011 20:06	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112790036A	10/07/2011 08:00	Joseph S Feister	1
10303	Terphenyls soil prep	SW-846 3550B	1	112790037A	10/07/2011 07:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112730032A	10/03/2011 16:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112790048A	10/06/2011 17:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1
07914	Boron	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1
01650	Calcium	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1
01654	Iron	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-177-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-177-SA7-SB-3.0-4.0

LLI Sample # SW 6423871
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:50

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5812 SDG#: DE258-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1
01657	Magnesium	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1
06958	Manganese	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1
01662	Potassium	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1
01667	Sodium	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1
07968	Strontium	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1
06969	Tin	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1
06970	Titanium	SW-846 6010B	1	112865708002	10/14/2011 12:08	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112785708004	10/12/2011 17:58	John P Hook	1
06124	Antimony	SW-846 6020	1	112781026001A	10/07/2011 05:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112781026001A	10/07/2011 05:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112781026001D	10/07/2011 05:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112781026001A	10/07/2011 05:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112781026001A	10/07/2011 05:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112781026001A	10/07/2011 05:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112781026001A	10/07/2011 05:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112801026001A	10/11/2011 05:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112781026001A	10/07/2011 05:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112781026001C	10/07/2011 05:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112781026001A	10/07/2011 05:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112781026001B	10/07/2011 05:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112781026001A	10/07/2011 05:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112781026001A	10/07/2011 05:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112781026001A	10/07/2011 05:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112781026001A	10/07/2011 05:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711002	10/10/2011 09:39	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112785708004	10/06/2011 10:19	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112865708002	10/13/2011 21:58	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112781026001	10/06/2011 10:38	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	112801026001	10/10/2011 11:34	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711002	10/06/2011 14:20	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11285495201B	10/15/2011 17:43	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11285285202B	10/13/2011 19:06	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11283243201A	10/12/2011 17:16	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11278102201B	10/05/2011 20:40	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11285495201B	10/12/2011 23:15	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11285285202B	10/12/2011 18:30	Carolyn M Mastropietro	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11278102201B	10/05/2011 15:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11285039402B	10/12/2011 10:00	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-177-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-177-SA7-SB-3.0-4.0

LLI Sample # SW 6423871
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:50

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5812 SDG#: DE258-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11283243201A	10/10/2011 09:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **TB-092911 Water**
SSFL Area IV Collocated Soil Sampling
TB-092911

LLI Sample # WW 6423872
LLI Group # 1269114
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:30

Submitted: 09/30/2011 09:30
Reported: 11/14/2011 13:38

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5813 SDG#: DE258-13TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11279A20A	10/07/2011 13:14	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11279A20A	10/07/2011 13:14	Marie D John	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269114
Reported: 11/14/11 at 01:38 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11284SLA026	Sample number(s): 6423855-6423858,6423862-6423871									
Acenaphthene	17	U	17.	170	ug/kg	95		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	99		75-122		
Aniline	170 U		170.	500	ug/kg	67		20-115		
Anthracene	17	U	17.	170	ug/kg	103		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	33		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	106		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	108		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	101		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	102		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	108		67-125		
Benzoic acid	170 U		170.	500	ug/kg	47*		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	90		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	117*		73-114		
Butylbenzylphthalate	17	U	17.	170	ug/kg	92		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	101		79-112		
Carbazole	17	U	17.	170	ug/kg	99		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	93		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	42		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	97		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	97		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	82		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	88		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	94		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	100		74-115		
Chrysene	17	U	17.	170	ug/kg	110		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	106		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	94		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	88		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	87		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	87		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	45		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	102		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	97		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	96		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	99		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	100		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	40*		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	22		18-133		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269114
Reported: 11/14/11 at 01:38 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	99		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	106		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	105		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	94		75-117		
Fluoranthene	17	U	17.	170	ug/kg	110		78-116		
Fluorene	17	U	17.	170	ug/kg	98		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	120*		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	107		65-117		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	97		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	93		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	106		64-119		
Isophorone	17	U	17.	170	ug/kg	94		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	91		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	93		69-109		
2-Methylphenol	33	U	33.	170	ug/kg	95		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	96		66-117		
Naphthalene	17	U	17.	170	ug/kg	89		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	85		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	89		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	63		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	95		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	78		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	85		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	89		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	86		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	105		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	91		62-137		
Pentachlorophenol	170	U	170.	500	ug/kg	79		51-117		
Phenanthrene	17	U	17.	170	ug/kg	102		77-113		
Phenol	17	U	17.	170	ug/kg	97		58-112		
Pyrene	17	U	17.	170	ug/kg	99		75-115		
Tetralin	170	U	170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	97		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	105		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	109		78-111		
Batch number: 11284SLB026	Sample number(s): 6423855-6423858,6423862-6423871									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	88		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	85		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	92		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	95		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	94		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	104		63-143		
Benzo(g,h,i)perylene	1.5	J	0.67	1.7	ug/kg	96		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	92		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	106		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	108		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	93		73-114		
Dibenz(a,h)anthracene	1.4	J	0.67	1.7	ug/kg	98		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	102		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	94		79-121		
Bis(2-Ethylhexyl)phthalate	7.6	J	6.0	18	ug/kg	116		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	98		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	94		71-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269114
Reported: 11/14/11 at 01:38 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Indeno(1,2,3-cd)pyrene	1.1	J	0.67	1.7	ug/kg	98		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	85		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	86		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	109		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	89		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	93		72-119		
Batch number: 11274A34A	Sample number(s): 6423871									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	71		67-119		
Batch number: 11279A20A	Sample number(s): 6423872									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	100	75-135	0	30
Batch number: 112810010A	Sample number(s): 6423855-6423858,6423860,6423862-6423868									
2,4-D	1.2	U	1.2	3.6	ug/kg	77		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	37		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	81		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	51*		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	9*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	95		62-170		
MCPA	76	U	76.	250	ug/kg	53*		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	47*		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	89		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	63*		68-114		
Batch number: 112910026A	Sample number(s): 6423861									
2,4-D	1.2	U	1.2	3.6	ug/kg	90		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	23		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	87		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	98		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	8*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	92		62-170		
MCPA	76	U	76.	250	ug/kg	62		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	55		54-137		
2,4,5-T	0.082	U	0.082	0.17	ug/kg	90		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	82		68-114		
Batch number: 112810037A	Sample number(s): 6423855-6423858,6423860-6423868									
Aldrin	0.066	U	0.066	0.17	ug/kg	82		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	74		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	94		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	79		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	125		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	118		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	100		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	97		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	94		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	62		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	92		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	105		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	94		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	91		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	98		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	79		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	91		65-131		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269114
Reported: 11/14/11 at 01:38 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methoxychlor	0.34	U	0.34	1.7	ug/kg	119		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 112840021A	Sample number(s): 6423855-6423858,6423860-6423871									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	65	66	36-106	1	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	72		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	82		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112730032A	Sample number(s): 6423871									
Ethanol	100	U	100.	500	ug/kg	99		71-129		
Isopropanol	100	U	100.	500	ug/kg	95		75-125		
Methanol	100	U	100.	500	ug/kg	98		68-129		
Batch number: 112790048A	Sample number(s): 6423871									
Diethylene glycol	5.0	U	5.0	10	mg/kg	94		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	96		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	84		67-131		
Batch number: 112790036A	Sample number(s): 6423871									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	101		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	106		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	103		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	102		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	87		49-107		
Batch number: 112790037A	Sample number(s): 6423871									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	100		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		69-109		
Batch number: 112781026001A	Sample number(s): 6423855-6423859,6423862-6423871									
Antimony	0.0725	U	0.0725	0.196	mg/kg	76		40-227		
Arsenic	0.0784	U	0.0784	0.392	mg/kg	97		83-111		
Beryllium	0.0157	U	0.0157	0.0980	mg/kg	94		84-112		
Cadmium	0.0431	U	0.0431	0.0980	mg/kg	95		83-111		
Chromium	0.118	U	0.118	0.392	mg/kg	105		77-123		
Cobalt	0.0196	U	0.0196	0.0980	mg/kg	98		85-114		
Copper	0.977		0.0784	0.392	mg/kg	102		81-110		
Lead	0.121	J	0.0100	0.196	mg/kg	96		84-112		
Nickel	0.0980	U	0.0980	0.392	mg/kg	99		81-110		
Silver	0.0360	J	0.0139	0.0980	mg/kg	100		83-112		
Thallium	0.0294	U	0.0294	0.0980	mg/kg	96		82-112		
Vanadium	0.0216	U	0.0216	0.0980	mg/kg	97		76-110		
Zinc	0.549	U	0.549	2.94	mg/kg	96		82-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269114
Reported: 11/14/11 at 01:38 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 112781026001B	Sample number(s): 6423855-6423859,6423862-6423871									
Selenium	0.0569	U	0.0569	0.392	mg/kg	94		79-110		
Batch number: 112781026001C	Sample number(s): 6423855-6423859,6423862-6423871									
Molybdenum	0.0490	U	0.0490	0.0980	mg/kg	101		80-110		
Batch number: 112781026001D	Sample number(s): 6423855-6423859,6423862-6423871									
Barium	0.104	U	0.104	0.392	mg/kg	96		83-110		
Batch number: 112785708004	Sample number(s): 6423855-6423859,6423862-6423871									
Aluminum	14.0	J	5.99	19.8	mg/kg	105		51-110		
Boron	0.356	U	0.356	4.95	mg/kg	103		83-110		
Calcium	13.0	J	2.48	19.8	mg/kg	103		81-110		
Iron	7.03	J	2.58	19.8	mg/kg	94		57-110		
Lithium	0.61	U	0.61	2.0	mg/kg	101		80-120		
Magnesium	5.37	J	0.436	9.90	mg/kg	103		68-110		
Manganese	0.0762	J	0.0356	0.495	mg/kg	99		85-116		
Phosphorus	1.34	J	0.347	9.90	mg/kg	106		80-120		
Potassium	11.2	U	11.2	49.5	mg/kg	102		71-110		
Sodium	5.89	U	5.89	99.0	mg/kg	98		76-110		
Strontium	0.0535	J	0.0248	0.495	mg/kg	99		84-110		
Tin	1.32	J	0.317	9.90	mg/kg	96		86-120		
Zirconium	0.455	U	0.455	4.95	mg/kg	107		80-120		
Batch number: 112785711002	Sample number(s): 6423855-6423859,6423862-6423871									
Mercury	0.0067	U	0.0067	0.0946	mg/kg	95		83-119		
Batch number: 112801026001A	Sample number(s): 6423862-6423864,6423869-6423871									
Copper	0.0769	U	0.0769	0.385	mg/kg	92		81-110		
Batch number: 112865708002	Sample number(s): 6423855-6423859,6423862-6423871									
Titanium	0.0860	J	0.0710	1.00	mg/kg	97		80-120		
Batch number: 11278102201B	Sample number(s): 6423871									
16a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	99		80-120		
Batch number: 11283243201A	Sample number(s): 6423855-6423857,6423859,6423862-6423871									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	89		80-120		
Batch number: 11285285202A	Sample number(s): 6423855-6423857,6423859,6423862-6423868									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	93		85-115		
Batch number: 11285285202B	Sample number(s): 6423869-6423871									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	93		85-115		
Batch number: 11285495201A	Sample number(s): 6423855-6423857,6423859,6423862-6423868									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	100		90-110		
Batch number: 11285495201B	Sample number(s): 6423869-6423871									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	100		90-110		
Batch number: 11285039402A	Sample number(s): 6423855-6423856,6423859,6423862-6423868									
17a pH by 9045C						100		95-105		
Batch number: 11285039402B	Sample number(s): 6423869-6423871									
17a pH by 9045C						100		95-105		
Batch number: 11278162403B	Sample number(s): 6423855-6423860,6423862-6423871									

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Quality Control Summary

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Reported: 11/14/11 at 01:38 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
28a Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11284SLA026	Sample number(s): 6423855-6423858,6423862-6423871 UNSPK: 6423856								
Acenaphthene	96	87	75-115	10	30				
Acenaphthylene	100	90	81-110	10	30				
Aniline	79	56	18-116	34*	30				
Anthracene	106	92	75-115	14	30				
Benzidine	38	0*	35-141	200*	30				
Benzo(a)anthracene	106	92	65-122	14	30				
Benzo(a)pyrene	110	96	57-126	13	30				
Benzo(b)fluoranthene	108	95	59-125	12	30				
Benzo(g,h,i)perylene	106	98	59-127	8	30				
Benzo(k)fluoranthene	109	91	56-132	18	30				
Benzoic acid	13	12	10-173	11	30				
Benzyl alcohol	92	107	67-115	15	30				
4-Bromophenyl-phenylether	120	107	67-129	11	30				
Butylbenzylphthalate	98	90	73-134	9	30				
Di-n-butylphthalate	103	92	67-123	11	30				
Carbazole	101	86	64-120	16	30				
4-Chloro-3-methylphenol	96	84	62-122	14	30				
4-Chloroaniline	66	32	13-107	69*	30				
bis(2-Chloroethoxy)methane	98	92	75-104	6	30				
bis(2-Chloroethyl)ether	100	91	60-116	10	30				
bis(2-Chloroisopropyl)ether	82	78	55-142	5	30				
2-Chloronaphthalene	88	81	50-141	8	30				
2-Chlorophenol	98	90	73-121	8	30				
4-Chlorophenyl-phenylether	101	89	80-109	12	30				
Chrysene	109	93	62-128	16	30				
Dibenz(a,h)anthracene	110	99	65-125	11	30				
Dibenzofuran	95	85	71-112	12	30				
1,2-Dichlorobenzene	89	83	66-108	7	30				
1,3-Dichlorobenzene	87	82	63-109	6	30				
1,4-Dichlorobenzene	87	80	58-108	8	30				
3,3'-Dichlorobenzidine	62	41	28-109	41*	30				
2,4-Dichlorophenol	104	94	66-123	10	30				
Diethylphthalate	97	86	66-118	12	30				
2,4-Dimethylphenol	100	90	68-118	11	30				
3,5-Dimethylphenol	103	93	71-127	10	30				
Dimethylphthalate	99	87	64-118	12	30				
4,6-Dinitro-2-methylphenol	33	42	11-126	25	30				
2,4-Dinitrophenol	0*	20	20-143	200*	30				
2,4-Dinitrotoluene	98	86	56-129	14	30				
2,6-Dinitrotoluene	107	94	69-123	13	30				
1,2-Diphenylhydrazine	107	96	71-129	11	30				
bis(2-Ethylhexyl)phthalate	98	92	63-122	7	30				

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Quality Control Summary

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Fluoranthene	111	94	73-112	17	30				
Fluorene	98	87	63-121	12	30				
Hexachlorobenzene	123*	110	77-114	11	30				
Hexachlorobutadiene	109	103	62-120	6	30				
Hexachlorocyclopentadiene	116	117	10-153	1	30				
Hexachloroethane	93	89	57-109	4	30				
Indeno(1,2,3-cd)pyrene	109	98	61-126	10	30				
Isophorone	96	89	73-102	8	30				
1-Methylnaphthalene	91	83	64-122	10	30				
2-Methylnaphthalene	94	86	76-114	9	30				
2-Methylphenol	96	89	75-111	8	30				
4-Methylphenol	100	90	59-123	11	30				
Naphthalene	91	84	72-116	8	30				
2-Nitroaniline	87	81	67-125	6	30				
3-Nitroaniline	96	75	59-122	25	30				
4-Nitroaniline	70	58	41-109	18	30				
Nitrobenzene	97	92	57-125	5	30				
2-Nitrophenol	85	87	56-127	1	30				
4-Nitrophenol	87	81	37-129	7	30				
N-Nitroso-di-n-propylamine	90	83	60-116	8	30				
N-Nitrosodimethylamine	91	84	47-116	9	30				
N-Nitrosodiphenylamine	107	96	71-122	11	30				
Di-n-octylphthalate	99	94	56-126	5	30				
Pentachlorophenol	68	89	28-127	27	30				
Phenanthrene	104	90	65-125	14	30				
Phenol	101	91	58-126	10	30				
Pyrene	101	89	74-126	12	30				
1,2,4-Trichlorobenzene	99	93	72-115	6	30				
2,4,5-Trichlorophenol	107	98	58-129	8	30				
2,4,6-Trichlorophenol	112	103	56-134	8	30				
Batch number: 11284SLB026	Sample number(s): 6423855-6423858,6423862-6423871 UNSPK: 6423856								
Acenaphthene	93	84	63-105	10	30				
Acenaphthylene	93	83	67-114	12	30				
Anthracene	99	87	73-115	13	30				
Benzo(a)anthracene	99	85	59-128	15	30				
Benzo(a)pyrene	98	89	58-142	10	30				
Benzo(b)fluoranthene	106	106	54-163	0	30				
Benzo(g,h,i)perylene	91	55	33-141	49*	30				
Benzo(k)fluoranthene	92	89	57-153	3	30				
Butylbenzylphthalate	134	92	57-173	25	30				
Di-n-butylphthalate	115	114	65-148	0	30				
Chrysene	97	87	67-123	11	30				
Dibenz(a,h)anthracene	101	66	22-133	41*	30				
Diethylphthalate	106	99	70-136	6	30				
Dimethylphthalate	101	91	74-118	11	30				
Bis(2-Ethylhexyl)phthalate	102	124	39-167	16	30				
Fluoranthene	103	93	51-149	10	30				
Fluorene	99	89	66-122	11	30				
Indeno(1,2,3-cd)pyrene	99	65	21-143	41*	30				
1-Methylnaphthalene	90	80	72-123	12	30				
2-Methylnaphthalene	90	79	64-103	14	30				
Naphthalene	92	81	61-102	12	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269114
Reported: 11/14/11 at 01:38 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
N-Nitrosodimethylamine	95	81	48-113	16	30				
Di-n-octylphthalate	117	116	40-192	1	30				
Phenanthrene	96	84	62-122	14	30				
Pyrene	99	86	51-131	15	30				
Batch number: 11274A34A	Sample number(s): 6423871 UNSPK: P421299								
9a TPH by EPA 8015B Gas C5-C12	77	77	39-118	9	30				
Batch number: 112810010A	Sample number(s): 6423855-6423858,6423860,6423862-6423868 UNSPK: 6423856								
2,4-D	75	77	17-180	2	35				
Dalapon	50	41	10-125	19	50				
2,4-DB	78	63	10-201	20	50				
Dicamba	86	84	10-190	1	50				
Dinoseb	8*	36	10-46	124*	35				
2,4-DP (Dichlorprop)	111	115	33-178	4	50				
MCPA	184	209	10-213	14	50				
MCPP (Mecoprop)	39	44	10-184	8	50				
2,4,5-T	70	47	10-156	39*	35				
2,4,5-TP	16*	42	24-141	92*	35				
Batch number: 112910026A	Sample number(s): 6423861 UNSPK: P423856								
2,4-D	78	77	17-180	1	35				
Dalapon	0*	0*	10-125	0	50				
2,4-DB	88	82	10-201	7	50				
Dicamba	55	0*	10-190	200*	50				
Dinoseb	18	11	10-46	43*	35				
2,4-DP (Dichlorprop)	70	73	33-178	4	50				
MCPA	72	77	10-213	7	50				
MCPP (Mecoprop)	55	55	10-184	1	50				
2,4,5-T	34	41	10-156	19	35				
2,4,5-TP	35	55	24-141	45*	35				
Batch number: 112810037A	Sample number(s): 6423855-6423858,6423860-6423868 UNSPK: 6423856								
Aldrin	55	55	16-126	0	50				
Alpha BHC	53	50	10-129	6	50				
Beta BHC	59	53	14-147	11	50				
Gamma BHC - Lindane	53	53	10-140	0	50				
p,p-DDD	72	69	16-163	4	50				
p,p-DDE	72	63	18-161	7	50				
p,p-DDT	118	110	10-176	7	50				
Delta BHC	67	67	23-140	0	50				
Dieldrin	50	46	19-154	9	50				
Endosulfan I	41	50	16-137	19	50				
Endosulfan II	78	69	28-154	13	50				
Endosulfan Sulfate	0*	51	21-160	200*	50				
Endrin	60	57	11-149	5	50				
Endrin Aldehyde	74	68	10-148	9	35				
Endrin Ketone	57	0*	22-165	200*	50				
Heptachlor	59	56	13-126	5	50				
Heptachlor Epoxide	70	70	13-157	0	50				
Methoxychlor	64	58	32-147	10	50				
Batch number: 112840021A	Sample number(s): 6423855-6423858,6423860-6423871 UNSPK: 6423856								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269114
Reported: 11/14/11 at 01:38 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
PCB-1016	70	81	29-146	14	50				
PCB-1260	80	93	39-149	15	50				
Batch number: 112730032A	Sample number(s): 6423871 UNSPK: P419519								
Ethanol	88	67	48-130	27*	20				
Isopropanol	84	64	12-149	28*	20				
Methanol	87	68	43-138	24*	20				
Batch number: 112790048A	Sample number(s): 6423871 UNSPK: P430028								
Diethylene glycol	28*	34*	59-109	20	20				
Ethylene glycol	58*	61*	63-107	5	20				
Propylene glycol	61*	63	63-107	2	20				
Batch number: 112790036A	Sample number(s): 6423871 UNSPK: P421299								
EFH (C12-C14)	95	101	49-123	5	20				
EFH (C15-C20)	110	91	49-123	13	20				
EFH (C21-C30)	-50*	35*	49-123	22*	20				
EFH (C30 - C40)	-175 (2)	-220 (2)	49-123	6	20				
EFH (C8-C11)	90	87	49-123	5	20				
Batch number: 112790037A	Sample number(s): 6423871 UNSPK: P421299								
m-Terphenyl	91	96	75-125	6	20				
o-Terphenyl	93	99	75-125	6	20				
p-Terphenyl	92	98	75-125	6	20				
Batch number: 112781026001A	Sample number(s): 6423855-6423859,6423862-6423871 UNSPK: 6423856 BKG: 6423856								
Antimony	27*	37*	75-125	20	20	0.200	0.225	12 (1)	20
Arsenic	191*	210*	75-125	4	20	6.56	8.85	30*	20
Beryllium	112	116	75-125	3	20	0.634	0.768	19	20
Cadmium	112	131*	75-125	13	20	0.290	0.352	19 (1)	20
Chromium	168*	208*	75-125	9	20	28.9	33.9	16	20
Cobalt	110	129*	75-125	15	20	9.28	9.17	1	20
Copper	130*	167*	75-125	11	20	18.2	22.9	23*	20
Lead	121 (2)	255 (2)	75-125	16	20	20.1	23.0	14	20
Nickel	136*	179*	75-125	14	20	16.5	19.8	18	20
Silver	110	127*	75-125	15	20	0.0221 J	0.0170 J	26* (1)	20
Thallium	122	144*	75-125	12	20	0.248	0.303	20 (1)	20
Vanadium	243 (2)	285 (2)	75-125	6	20	49.9	62.8	23*	20
Zinc	145 (2)	181 (2)	75-125	5	20	53.3	64.8	20	20
Batch number: 112781026001B	Sample number(s): 6423855-6423859,6423862-6423871 UNSPK: 6423856 BKG: 6423856								
Selenium	99	110	75-125	10	20	0.244 J	0.293 J	18 (1)	20
Batch number: 112781026001C	Sample number(s): 6423855-6423859,6423862-6423871 UNSPK: 6423856 BKG: 6423856								
Molybdenum	116	134*	75-125	15	20	0.311	0.440	34* (1)	20
Batch number: 112781026001D	Sample number(s): 6423855-6423859,6423862-6423871 UNSPK: 6423856 BKG: 6423856								
Barium	202 (2)	320 (2)	75-125	10	20	90.1	107	18	20
Batch number: 112785708004	Sample number(s): 6423855-6423859,6423862-6423871 UNSPK: 6423856 BKG: 6423856								
Aluminum	2148 (2)	2670 (2)	75-125	4	20	17,300	17,700	2	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269114
Reported: 11/14/11 at 01:38 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Boron	103	101	84-115	2	20	10.8	10.6	2 (1)	20
Calcium	2589 (2)	909 (2)	75-125	5	20	140,000	134,000	4	20
Iron	768 (2)	672 (2)	75-125	0	20	20,200	23,800	16	20
Lithium	101	102	82-114	0	20	17.9	17.7	1	20
Magnesium	151 (2)	293 (2)	75-125	4	20	5,900	5,920	0	20
Manganese	221 (2)	113 (2)	75-125	16	20	269	303	12	20
Phosphorus	99 (2)	107 (2)	75-125	1	20	437	445	2	20
Potassium	148*	171*	75-125	5	20	3,030	3,040	1	20
Sodium	99	99	75-125	1	20	117	108	7 (1)	20
Strontium	93	87	75-115	3	20	151	149	1	20
Tin	81	80	80-110	2	20	1.87 J	1.88 J	0 (1)	20
Zirconium	96	96	81-110	1	20	3.29 J	4.05 J	21* (1)	20
Batch number: 112785711002	Sample number(s): 6423855-6423859,6423862-6423871 UNSPK: 6423856 BKG: 6423856								
Mercury	92	96	65-135	1	20	0.0178 J	0.0126 J	34* (1)	20
Batch number: 112801026001A	Sample number(s): 6423862-6423864,6423869-6423871 UNSPK: 6423870 BKG: 6423870								
Copper	130*	117	75-125	7	20	4.86	5.10	5	20
Batch number: 112865708002	Sample number(s): 6423855-6423859,6423862-6423871 UNSPK: 6423856 BKG: 6423856								
Titanium	313 (2)	299 (2)	75-125	2	20	805	816	1	20
Batch number: 11278102201B	Sample number(s): 6423871 UNSPK: P418463 BKG: P418463								
16a Cyanide by 9012B	93		75-125			0.17 U	0.18 U	0 (1)	20
Batch number: 11283243201A	Sample number(s): 6423855-6423857,6423859,6423862-6423871 UNSPK: 6423856 BKG: 6423856								
3a Cr VI by EPA 7199	89		75-125			0.39 J	0.51 J	26* (1)	20
Batch number: 11285285202A	Sample number(s): 6423855-6423857,6423859,6423862-6423868 UNSPK: 6423856 BKG: 6423856								
7a Perchlorate EPA 314.0	113		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11285285202B	Sample number(s): 6423869-6423871 UNSPK: 6423870 BKG: 6423870								
7a Perchlorate EPA 314.0	99		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11285495201A	Sample number(s): 6423855-6423857,6423859,6423862-6423868 UNSPK: 6423856 BKG: 6423856								
11a Anions by 300.0 - Fluoride	72*		80-120			0.80 U	0.80 U	0 (1)	20
Batch number: 11285495201B	Sample number(s): 6423869-6423871 UNSPK: 6423869 BKG: 6423869								
11a Anions by 300.0 - Fluoride	64*		80-120			0.80 U	0.80 U	0 (1)	20
Batch number: 11285039402A	Sample number(s): 6423855-6423856,6423859,6423862-6423868 BKG: 6423856								
17a pH by 9045C						7.81	7.82	0	3
Batch number: 11285039402B	Sample number(s): 6423869-6423871 BKG: 6423871								
17a pH by 9045C						7.92	7.92	0	3
Batch number: 11278162403B	Sample number(s): 6423855-6423860,6423862-6423871 BKG: 6423856								
28a Moisture Content by 160.3						3.3	3.3	0	20
Moisture Content by 160.3						3.3	3.3	0	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269114
Reported: 11/14/11 at 01:38 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Moisture Content by 160.3						3.3	3.3	0	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11284SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6423855	96	103	131*	97	94	97
6423856	90	99	122	94	94	98
6423857	94	101	128	95	93	96
6423858	88	96	115	90	88	88
6423862	93	101	122	96	93	97
6423863	91	98	124	93	89	97
6423864	99	107	129	99	96	100
6423865	98	106	123	97	92	95
6423866	91	98	127	94	90	95
6423867	91	97	118	92	87	99
6423868	89	98	108	94	91	91
6423869	88	95	119	90	88	96
6423870	94	101	117	94	90	99
6423871	91	101	105	95	92	94
Blank	86	94	114	90	98	103
LCS	94	100	127	93	94	96
MS	94	101	128	95	93	96
MSD	88	96	115	90	88	88
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11284SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6423855	109	92	119
6423856	100	87	98
6423857	113	89	109
6423858	104	78	94
6423862	102	87	96
6423863	93	82	103
6423864	110	87	98
6423865	126	83	91
6423866	41	32*	37*
6423867	86	75	82
6423868	100	87	95
6423869	89	77	90
6423870	98	84	92
6423871	99	85	95

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269114
Reported: 11/14/11 at 01:38 PM

Surrogate Quality Control

Blank	92	81	90
LCS	100	81	92
MS	113	89	109
MSD	104	78	94
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11274A34A

	Trifluorotoluene-F
6423871	94
Blank	96
LCS	92
MS	96
MSD	98
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11279A20A

	Trifluorotoluene-F
6423872	89
Blank	87
LCS	111
LCSD	113
Limits:	63-135

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 112810010A

	2,4-Dichlorophenylacetic acid
6423855	80
6423856	107
6423857	113
6423858	86
6423860	113
6423862	78
6423863	53
6423864	93
6423865	67
6423866	97
6423867	103
6423868	108
Blank	76
LCS	65
MS	113
MSD	86
Limits:	36-156

Analysis Name: 12a Pesticides by 8081A
Batch number: 112810037A

	Tetrachloro-m-xylene	Decachlorobiphenyl

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269114
Reported: 11/14/11 at 01:38 PM

Surrogate Quality Control

6423855	62	121*
6423856	51	89
6423857	58	71
6423858	54	61
6423860	54	57
6423861	55	58
6423862	60	64
6423863	65	83
6423864	58	69
6423865	59	91
6423866	55	60
6423867	65	73
6423868	54	70
Blank	76	106
LCS	83	111
MS	58	71
MSD	54	61
Limits:	50-130	20-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112840021A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6423855	84	81
6423856	87	91
6423857	73	71
6423858	87	96
6423860	83	93
6423861	70	88
6423862	70	63
6423863	88	95
6423864	68	71
6423865	80	89
6423866	88	91
6423867	45*	51
6423868	60	57
6423869	56	65
6423870	84	92
6423871	90	100
Blank	88	94
LCS	77	86
LCSD	87	105
MS	73	71
MSD	87	96
Limits:	53-139	45-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 112910026A

	2,4-Dichlorophenylacetic acid
6423861	67
Blank	64
LCS	74

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269114
Reported: 11/14/11 at 01:38 PM

Surrogate Quality Control

MS	61	
MSD	60	
Limits:	36-156	

Analysis Name: 18a Alcohols by 8015B
Batch number: 112730032A

	Acetone
6423871	88
Blank	98
LCS	99
MS	87
MSD	64
Limits:	42-138

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112790036A

	Chlorobenzene	Orthoterphenyl
6423871	84	90
Blank	84	90
LCS	87	93
MS	90	92
MSD	86	93
Limits:	37-125	47-145

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112790037A

	n-Triacontane-d62
6423871	63
Blank	68
LCS	67
MS	68
MSD	69
Limits:	19-152

Analysis Name: 19a Glycols by 8015B
Batch number: 112790048A

	Tetramethylene glycol
6423871	73
Blank	83
LCS	84
MS	74
MSD	73
Limits:	29-137

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acct# 1303 Cap# 1269114 Sample# 6423355-72

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures: Vidal Cotin

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SS ONLY		Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	
SL-001-SA8S-0.0-0.5	9/29/11	1125	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-001-SA8S-0.0-0.5	9/29/11	1125	SOIL	NONE	1-SS Sleeve			X	X								
SL-003-SA8S-0.0-0.5MS	9/29/11	0955	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	**MS/MSD sample**
SL-003-SA8S-0.0-0.5MS	9/29/11	0955	SOIL	NONE	2-SS Sleeves			X	X								**MS/MSD sample**
SL-005-SA8S-0.0-0.5	9/29/11	0840	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-005-SA8S-0.0-0.5	9/29/11	0840	SOIL	NONE	1-SS Sleeve			X	X								
SL-007-SA8S-0.0-0.5	9/29/11	0800	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-007-SA8S-0.0-0.5	9/29/11	0800	SOIL	NONE	1-SS Sleeve			X	X								
SL-013-SA8S-0.0-0.5	9/29/11	1455	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-013-SA8S-0.0-0.5	9/29/11	1455	SOIL	NONE	1-SS Sleeve			X	X								
SL-014-SA8S-0.0-0.5	9/29/11	1510	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-014-SA8S-0.0-0.5	9/29/11	1510	SOIL	NONE	1-SS Sleeve			X	X								
SL-015-SA8S-0.0-0.5	9/29/11	1530	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-015-SA8S-0.0-0.5	9/29/11	1530	SOIL	NONE	1-SS Sleeve			X	X								
SL-024-SA8S-0.0-0.5	9/29/11	1415	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-024-SA8S-0.0-0.5	9/29/11	1415	SOIL	NONE	1-SS Sleeve			X	X								
DUP01-SA8S-QC-092911	9/29/11	1005	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
DUP01-SA8S-QC-092911	9/29/11	1005	SOIL	NONE	1-SS Sleeve			X	X								

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
[signature]	09/29/2011 / 1630	[signature] LL 9/30/11 0930	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No(s)**	
		8767 9857 4434; 8767 9858 3520	

acct# 13013 Cap# 1269114 Sample# 6423855-72

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
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For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-126-SA7-SB-4.0-5.0	9/29/11	1133	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-127-SA7-SB-4.0-5.0	9/29/11	1000	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-177-SA7-SB-3.5	9/29/11	0845	SOIL	NONE	2-Encores										X											
SL-177-SA7-SB-3.0-4.0	9/29/11	0850	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X					X	X	X	X		
TB-092911	9/29/11	1430	WATER	NONE	4-40mL vials										X											

Relinquished by: (*Signature*) — Date/Time: 09/29/2011 / 1630

Received for Laboratory by: (*Signature*) LL 9/30/11 0930

Received by: (*Signature*) — Date/Time

Airbill No.(s): 8767 9857 4434; 8767 9858 3520

Laboratory: Lancaster Laboratories, Inc.

Nicole Maljovec

From: Nicole Maljovec
Sent: Friday, September 30, 2011 10:10 PM
To: 'Bloisa, Peggy'
Subject: FW: COC for 9/29/2011- Surface samples are missing "-SS"
Attachments: COC_09_29_11.xlsx

One more and then I'm done. The SS is missing in the sample IDs for the surface samples. We added them in. if the –SS- shouldn't be included, please let me know.

Thanks!

From: Bloisa, Peggy [mailto:BloisaMJ@cdm.com]
Sent: Thursday, September 29, 2011 8:15 PM
To: Nicole Maljovec; SA Env Entry
Cc: Burgesser, Todd; Zakowski, Cherie; Hartman, Pamela; Laura Rainey
Subject: COC for 9/29/2011

Subsurface sampling continued in Subarea 7. Surface sampling started in Subarea 8 South today.

See attached COC.

Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|


Please consider the environment before printing this email.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 24, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 09/30/2011
Group Number: 1269115
SDG: DX147
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-001-SA8S-SS-0.0-0.5 Soil	6423873
SL-003-SA8S-SS-0.0-0.5 Soil	6423874
SL-003-SA8S-SS-0.0-0.5MS Soil	6423875
SL-003-SA8S-SS-0.0-0.5MSD Soil	6423876
SL-005-SA8S-SS-0.0-0.5 Soil	6423877
SL-007-SA8S-SS-0.0-0.5 Soil	6423878
SL-013-SA8S-SS-0.0-0.5 Soil	6423879
SL-014-SA8S-SS-0.0-0.5 Soil	6423880
SL-015-SA8S-SS-0.0-0.5 Soil	6423881
SL-024-SA8S-SS-0.0-0.5 Soil	6423882
DUP01-SA8S-QC-092911 Soil	6423883
SL-126-SA7-SB-4.0-5.0 Soil	6423884
SL-127-SA7-SB-4.0-5.0 Soil	6423885
SL-177-SA7-SB-3.0-4.0 Soil	6423886

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-001-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SS-0.0-0.5

LLI Sample # SW 6423873
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:25

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4701 SDG#: DX147-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-001-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SS-0.0-0.5

LLI Sample # SW 6423873
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:25

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4701 SDG#: DX147-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0366	U	0.0366	1.06	1
11031	12378-PeCDD	40321-76-4	0.0599	J	0.0362	5.28	1
11031	123478-HxCDD	39227-28-6	0.0733	J	0.0329	5.28	1
11031	123678-HxCDD	57653-85-7	0.152	JB	0.0326	5.28	1
11031	123789-HxCDD	19408-74-3	0.125	JB	0.0347	5.28	1
11031	1234678-HpCDD	35822-46-9	2.77	JB	0.0590	5.28	1
11031	OCDD	3268-87-9	19.3	B	0.0762	10.6	1
11031	2378-TCDF	51207-31-9	0.179	JB	0.0436	1.06	1
11031	12378-PeCDF	57117-41-6	0.0941	JBQ	0.0250	5.28	1
11031	23478-PeCDF	57117-31-4	0.381	JB	0.0263	5.28	1
11031	123478-HxCDF	70648-26-9	0.288	JQ	0.0388	5.28	1
11031	123678-HxCDF	57117-44-9	0.133	JBQ	0.0311	5.28	1
11031	123789-HxCDF	72918-21-9	0.0547	JBQ	0.0320	5.28	1
11031	234678-HxCDF	60851-34-5	0.203	JB	0.0242	5.28	1
11031	1234678-HpCDF	67562-39-4	0.592	JB	0.0323	5.28	1
11031	1234789-HpCDF	55673-89-7	0.118	JBQ	0.0499	5.28	1
11031	OCDF	39001-02-0	1.15	JB	0.0920	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	40	26 - 152
13C12-123678-HxCDF	50	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	57	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	55	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-001-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SS-0.0-0.5

LLI Sample # SW 6423873
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:25

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4701 SDG#: DX147-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-001-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA8S-SS-0.0-0.5

LLI Sample # SW 6423873
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:25

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4701 SDG#: DX147-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11286001	10/15/2011 13:12	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11286001	10/13/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-003-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423874
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX147-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-003-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423874
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX147-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0329	U	0.0329	1.02	1
11031	12378-PeCDD	40321-76-4	0.0765	J	0.0313	5.09	1
11031	123478-HxCDD	39227-28-6	0.0692	JQ	0.0320	5.09	1
11031	123678-HxCDD	57653-85-7	0.165	JB	0.0345	5.09	1
11031	123789-HxCDD	19408-74-3	0.163	JBQ	0.0290	5.09	1
11031	1234678-HpCDD	35822-46-9	2.71	JB	0.0405	5.09	1
11031	OCDD	3268-87-9	18.7	B	0.0407	10.2	1
11031	2378-TCDF	51207-31-9	0.196	JB	0.0375	1.02	1
11031	12378-PeCDF	57117-41-6	0.0217	U	0.0217	5.09	1
11031	23478-PeCDF	57117-31-4	0.317	JB	0.0220	5.09	1
11031	123478-HxCDF	70648-26-9	0.220	J	0.0352	5.09	1
11031	123678-HxCDF	57117-44-9	0.113	JBQ	0.0268	5.09	1
11031	123789-HxCDF	72918-21-9	0.0252	U	0.0252	5.09	1
11031	234678-HxCDF	60851-34-5	0.150	JB	0.0209	5.09	1
11031	1234678-HpCDF	67562-39-4	0.574	JB	0.0211	5.09	1
11031	1234789-HpCDF	55673-89-7	0.0457	JB	0.0282	5.09	1
11031	OCDF	39001-02-0	0.882	JB	0.0464	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	51	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	67	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	62	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-003-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423874
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX147-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-003-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423874
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX147-02BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11286001	10/15/2011 14:08	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11286001	10/13/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-003-SA8S-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423875
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX147-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-003-SA8S-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423875
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX147-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.2	B	0.0509	1.01	1
11031	12378-PeCDD	40321-76-4	104		0.0575	5.04	1
11031	123478-HxCDD	39227-28-6	105		0.0609	5.04	1
11031	123678-HxCDD	57653-85-7	101	B	0.0607	5.04	1
11031	123789-HxCDD	19408-74-3	102	B	0.0598	5.04	1
11031	1234678-HpCDD	35822-46-9	105	B	0.0721	5.04	1
11031	OCDD	3268-87-9	227	B	0.0818	10.1	1
11031	2378-TCDF	51207-31-9	20.8	B	0.0568	1.01	1
11031	12378-PeCDF	57117-41-6	102	B	0.0363	5.04	1
11031	23478-PeCDF	57117-31-4	99.6	B	0.0369	5.04	1
11031	123478-HxCDF	70648-26-9	96.9		0.113	5.04	1
11031	123678-HxCDF	57117-44-9	99.3	B	0.0879	5.04	1
11031	123789-HxCDF	72918-21-9	101	B	0.0777	5.04	1
11031	234678-HxCDF	60851-34-5	101	B	0.0666	5.04	1
11031	1234678-HpCDF	67562-39-4	98.7	B	0.0736	5.04	1
11031	1234789-HpCDF	55673-89-7	101	B	0.105	5.04	1
11031	OCDF	39001-02-0	207	B	0.0905	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	40	26 - 152
13C12-123678-HxCDF	52	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	66	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-003-SA8S-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423875
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX147-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-003-SA8S-SS-0.0-0.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423875
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX147-02MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11286001	10/15/2011 18:08	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11286001	10/13/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-003-SA8S-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423876
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX147-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-003-SA8S-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423876
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX147-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	20.9	B	0.0570	0.996	1
11031	12378-PeCDD	40321-76-4	104		0.0531	4.98	1
11031	123478-HxCDD	39227-28-6	103		0.0592	4.98	1
11031	123678-HxCDD	57653-85-7	98.8	B	0.0654	4.98	1
11031	123789-HxCDD	19408-74-3	99.7	B	0.0609	4.98	1
11031	1234678-HpCDD	35822-46-9	102	B	0.0664	4.98	1
11031	OCDD	3268-87-9	216	B	0.0637	9.96	1
11031	2378-TCDF	51207-31-9	20.0	B	0.0551	0.996	1
11031	12378-PeCDF	57117-41-6	100	B	0.0368	4.98	1
11031	23478-PeCDF	57117-31-4	98.5	B	0.0364	4.98	1
11031	123478-HxCDF	70648-26-9	99.6		0.106	4.98	1
11031	123678-HxCDF	57117-44-9	98.5	B	0.0920	4.98	1
11031	123789-HxCDF	72918-21-9	100	B	0.0885	4.98	1
11031	234678-HxCDF	60851-34-5	100	B	0.0785	4.98	1
11031	1234678-HpCDF	67562-39-4	97.7	B	0.0576	4.98	1
11031	1234789-HpCDF	55673-89-7	99.5	B	0.0768	4.98	1
11031	OCDF	39001-02-0	201	B	0.0685	9.96	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	49	26 - 152
13C12-123678-HxCDF	56	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	65	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-003-SA8S-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423876
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX147-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-003-SA8S-SS-0.0-0.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-003-SA8S-SS-0.0-0.5

LLI Sample # SW 6423876
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 09:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4702 SDG#: DX147-02MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11286001	10/15/2011 19:04	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11286001	10/13/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-005-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SS-0.0-0.5

LLI Sample # SW 6423877
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:40

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4703 SDG#: DX147-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-005-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SS-0.0-0.5

LLI Sample # SW 6423877
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:40

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4703 SDG#: DX147-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0367	U	0.0367	1.02	1
11031	12378-PeCDD	40321-76-4	0.0587	JQ	0.0286	5.09	1
11031	123478-HxCDD	39227-28-6	0.0315	J	0.0252	5.09	1
11031	123678-HxCDD	57653-85-7	0.0811	JBQ	0.0273	5.09	1
11031	123789-HxCDD	19408-74-3	0.0560	JB	0.0238	5.09	1
11031	1234678-HpCDD	35822-46-9	0.781	JB	0.0297	5.09	1
11031	OCDD	3268-87-9	5.28	JB	0.0248	10.2	1
11031	2378-TCDF	51207-31-9	0.0324	U	0.0324	1.02	1
11031	12378-PeCDF	57117-41-6	0.0389	JB	0.0198	5.09	1
11031	23478-PeCDF	57117-31-4	0.0720	JBQ	0.0189	5.09	1
11031	123478-HxCDF	70648-26-9	0.0398	JQ	0.0348	5.09	1
11031	123678-HxCDF	57117-44-9	0.0340	JB	0.0326	5.09	1
11031	123789-HxCDF	72918-21-9	0.0374	JBQ	0.0192	5.09	1
11031	234678-HxCDF	60851-34-5	0.0512	JB	0.0162	5.09	1
11031	1234678-HpCDF	67562-39-4	0.151	JB	0.0191	5.09	1
11031	1234789-HpCDF	55673-89-7	0.0559	JB	0.0189	5.09	1
11031	OCDF	39001-02-0	0.353	JB	0.0407	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	60	25 - 164
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	56	24 - 169
13C12-12378-PeCDF	63	24 - 185
13C12-23478-PeCDF	58	21 - 178
13C12-123478-HxCDF	29	26 - 152
13C12-123678-HxCDF	31	26 - 123
13C12-234678-HxCDF	58	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	45	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	59	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-005-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SS-0.0-0.5

LLI Sample # SW 6423877
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:40

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4703 SDG#: DX147-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-005-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA8S-SS-0.0-0.5

LLI Sample # SW 6423877
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:40

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4703 SDG#: DX147-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11286001	10/15/2011 20:01	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11286001	10/13/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-007-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SS-0.0-0.5

LLI Sample # SW 6423878
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:00

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4704 SDG#: DX147-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-007-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SS-0.0-0.5

LLI Sample # SW 6423878
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:00

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4704 SDG#: DX147-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0363	U	0.0363	1.03	1
11031	12378-PeCDD	40321-76-4	0.0474	JQ	0.0270	5.14	1
11031	123478-HxCDD	39227-28-6	0.0397	JQ	0.0280	5.14	1
11031	123678-HxCDD	57653-85-7	0.119	JB	0.0270	5.14	1
11031	123789-HxCDD	19408-74-3	0.118	JBQ	0.0273	5.14	1
11031	1234678-HpCDD	35822-46-9	2.29	JB	0.0341	5.14	1
11031	OCDD	3268-87-9	30.0	B	0.0315	10.3	1
11031	2378-TCDF	51207-31-9	0.0545	JB	0.0312	1.03	1
11031	12378-PeCDF	57117-41-6	0.0178	U	0.0178	5.14	1
11031	23478-PeCDF	57117-31-4	0.0428	JBQ	0.0171	5.14	1
11031	123478-HxCDF	70648-26-9	0.0598	JQ	0.0255	5.14	1
11031	123678-HxCDF	57117-44-9	0.0674	JB	0.0227	5.14	1
11031	123789-HxCDF	72918-21-9	0.0505	JBQ	0.0178	5.14	1
11031	234678-HxCDF	60851-34-5	0.0823	JBQ	0.0153	5.14	1
11031	1234678-HpCDF	67562-39-4	0.474	JB	0.0190	5.14	1
11031	1234789-HpCDF	55673-89-7	0.0508	JB	0.0211	5.14	1
11031	OCDF	39001-02-0	0.884	JB	0.0379	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	45	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	61	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	73	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-007-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SS-0.0-0.5

LLI Sample # SW 6423878
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:00

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4704 SDG#: DX147-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-007-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-007-SA8S-SS-0.0-0.5

LLI Sample # SW 6423878
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:00

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4704 SDG#: DX147-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11286001	10/15/2011 20:58	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11286001	10/13/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-013-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SS-0.0-0.5

LLI Sample # SW 6423879
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4705 SDG#: DX147-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-013-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SS-0.0-0.5

LLI Sample # SW 6423879
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4705 SDG#: DX147-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0342	U	0.0342	1.03	1
11031	12378-PeCDD	40321-76-4	0.188	J	0.0333	5.14	1
11031	123478-HxCDD	39227-28-6	0.224	J	0.0317	5.14	1
11031	123678-HxCDD	57653-85-7	0.253	JB	0.0310	5.14	1
11031	123789-HxCDD	19408-74-3	0.289	JB	0.0323	5.14	1
11031	1234678-HpCDD	35822-46-9	2.17	JB	0.0342	5.14	1
11031	OCDD	3268-87-9	14.2	B	0.0314	10.3	1
11031	2378-TCDF	51207-31-9	0.183	JB	0.0618	1.03	1
11031	12378-PeCDF	57117-41-6	0.268	JBQ	0.0288	5.14	1
11031	23478-PeCDF	57117-31-4	0.601	JB	0.0291	5.14	1
11031	123478-HxCDF	70648-26-9	0.438	J	0.0445	5.14	1
11031	123678-HxCDF	57117-44-9	0.372	JBQ	0.0382	5.14	1
11031	123789-HxCDF	72918-21-9	0.222	JBQ	0.0314	5.14	1
11031	234678-HxCDF	60851-34-5	0.311	JB	0.0265	5.14	1
11031	1234678-HpCDF	67562-39-4	0.756	JB	0.0242	5.14	1
11031	1234789-HpCDF	55673-89-7	0.211	JBQ	0.0263	5.14	1
11031	OCDF	39001-02-0	1.27	JB	0.0324	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	90	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	95	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	50	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	63	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	77	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-013-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SS-0.0-0.5

LLI Sample # SW 6423879
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4705 SDG#: DX147-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-013-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA8S-SS-0.0-0.5

LLI Sample # SW 6423879
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:55

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4705 SDG#: DX147-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11286001	10/15/2011 21:54	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11286001	10/13/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-014-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SS-0.0-0.5

LLI Sample # SW 6423880
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:10

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4706 SDG#: DX147-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-014-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SS-0.0-0.5

LLI Sample # SW 6423880
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:10

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4706 SDG#: DX147-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0317	U	0.0317	1.04	1
11031	12378-PeCDD	40321-76-4	0.164	J	0.0295	5.20	1
11031	123478-HxCDD	39227-28-6	0.194	J	0.0411	5.20	1
11031	123678-HxCDD	57653-85-7	0.247	JB	0.0443	5.20	1
11031	123789-HxCDD	19408-74-3	0.210	JBQ	0.0377	5.20	1
11031	1234678-HpCDD	35822-46-9	6.20	B	0.0420	5.20	1
11031	OCDD	3268-87-9	64.7	B	0.0439	10.4	1
11031	2378-TCDF	51207-31-9	0.0992	JB	0.0421	1.04	1
11031	12378-PeCDF	57117-41-6	0.220	JB	0.0239	5.20	1
11031	23478-PeCDF	57117-31-4	0.409	JB	0.0245	5.20	1
11031	123478-HxCDF	70648-26-9	0.220	J	0.0344	5.20	1
11031	123678-HxCDF	57117-44-9	0.172	JB	0.0266	5.20	1
11031	123789-HxCDF	72918-21-9	0.0228	U	0.0228	5.20	1
11031	234678-HxCDF	60851-34-5	0.184	JB	0.0193	5.20	1
11031	1234678-HpCDF	67562-39-4	0.690	JB	0.0225	5.20	1
11031	1234789-HpCDF	55673-89-7	0.0761	JBQ	0.0259	5.20	1
11031	OCDF	39001-02-0	1.33	JB	0.0312	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	40	26 - 152
13C12-123678-HxCDF	49	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	61	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	64	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-014-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SS-0.0-0.5

LLI Sample # SW 6423880
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:10

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4706 SDG#: DX147-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-014-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SS-0.0-0.5

LLI Sample # SW 6423880
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:10

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4706 SDG#: DX147-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11286001	10/15/2011 22:51	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11286001	10/13/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-015-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SS-0.0-0.5

LLI Sample # SW 6423881
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:30

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4707 SDG#: DX147-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-015-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SS-0.0-0.5

LLI Sample # SW 6423881
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:30

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
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Chantilly VA 20151

X4707 SDG#: DX147-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0310	U	0.0310	1.03	1
11031	12378-PeCDD	40321-76-4	0.0439	JB	0.0285	5.14	1
11031	123478-HxCDD	39227-28-6	0.0940	JBQ	0.0360	5.14	1
11031	123678-HxCDD	57653-85-7	0.169	JBQ	0.0345	5.14	1
11031	123789-HxCDD	19408-74-3	0.0999	JB	0.0333	5.14	1
11031	1234678-HpCDD	35822-46-9	5.08	JB	0.0435	5.14	1
11031	OCDD	3268-87-9	86.6	B	0.0477	10.3	1
11031	2378-TCDF	51207-31-9	0.0580	JQ	0.0372	1.03	1
11031	12378-PeCDF	57117-41-6	0.0687	JB	0.0184	5.14	1
11031	23478-PeCDF	57117-31-4	0.220	JBQ	0.0185	5.14	1
11031	123478-HxCDF	70648-26-9	0.189	JBQ	0.0463	5.14	1
11031	123678-HxCDF	57117-44-9	0.129	JBQ	0.0412	5.14	1
11031	123789-HxCDF	72918-21-9	0.0687	JQ	0.0240	5.14	1
11031	234678-HxCDF	60851-34-5	0.178	JB	0.0190	5.14	1
11031	1234678-HpCDF	67562-39-4	0.862	JB	0.0254	5.14	1
11031	1234789-HpCDF	55673-89-7	0.108	JB	0.0244	5.14	1
11031	OCDF	39001-02-0	0.875	JB	0.0367	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	32	26 - 152
13C12-123678-HxCDF	36	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	54	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	73	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-015-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SS-0.0-0.5

LLI Sample # SW 6423881
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:30

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4707 SDG#: DX147-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-015-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SS-0.0-0.5

LLI Sample # SW 6423881
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 15:30

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4707 SDG#: DX147-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11292003	10/21/2011 03:06	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11292003	10/19/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-024-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SS-0.0-0.5

LLI Sample # SW 6423882
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:15

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4708 SDG#: DX147-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-024-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SS-0.0-0.5

LLI Sample # SW 6423882
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:15

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4708 SDG#: DX147-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0482 JQ	0.0321	1.00	1
11031	12378-PeCDD	40321-76-4	0.0493 JBQ	0.0288	5.00	1
11031	123478-HxCDD	39227-28-6	0.137 JBQ	0.0388	5.00	1
11031	123678-HxCDD	57653-85-7	0.225 JB	0.0417	5.00	1
11031	123789-HxCDD	19408-74-3	0.183 JBQ	0.0314	5.00	1
11031	1234678-HpCDD	35822-46-9	3.94 JB	0.0303	5.00	1
11031	OCDD	3268-87-9	27.7 B	0.0323	10.0	1
11031	2378-TCDF	51207-31-9	0.282 J	0.0531	1.00	1
11031	12378-PeCDF	57117-41-6	0.190 JB	0.0273	5.00	1
11031	23478-PeCDF	57117-31-4	0.0436 JBQ	0.0256	5.00	1
11031	123478-HxCDF	70648-26-9	0.179 JBQ	0.0242	5.00	1
11031	123678-HxCDF	57117-44-9	0.138 JB	0.0222	5.00	1
11031	123789-HxCDF	72918-21-9	0.0642 JQ	0.0265	5.00	1
11031	234678-HxCDF	60851-34-5	0.190 JBQ	0.0224	5.00	1
11031	1234678-HpCDF	67562-39-4	0.772 JB	0.0181	5.00	1
11031	1234789-HpCDF	55673-89-7	0.0874 JBQ	0.0267	5.00	1
11031	OCDF	39001-02-0	1.26 JB	0.0253	10.0	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	73	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-024-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SS-0.0-0.5

LLI Sample # SW 6423882
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:15

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4708 SDG#: DX147-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-024-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-024-SA8S-SS-0.0-0.5

LLI Sample # SW 6423882
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 14:15

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4708 SDG#: DX147-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11292003	10/21/2011 04:03	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11292003	10/19/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP01-SA8S-QC-092911 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA8S-QC-092911

LLI Sample # SW 6423883
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:05

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4709 SDG#: DX147-09FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP01-SA8S-QC-092911 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA8S-QC-092911

LLI Sample # SW 6423883
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:05

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4709 SDG#: DX147-09FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0275	U	0.0275	1.03	1
11031	12378-PeCDD	40321-76-4	0.0846	JQ	0.0258	5.15	1
11031	123478-HxCDD	39227-28-6	0.0704	JQ	0.0271	5.15	1
11031	123678-HxCDD	57653-85-7	0.193	JB	0.0260	5.15	1
11031	123789-HxCDD	19408-74-3	0.138	JB	0.0256	5.15	1
11031	1234678-HpCDD	35822-46-9	3.04	JB	0.0303	5.15	1
11031	OCDD	3268-87-9	27.5	B	0.0265	10.3	1
11031	2378-TCDF	51207-31-9	0.265	JB	0.0349	1.03	1
11031	12378-PeCDF	57117-41-6	0.0763	JB	0.0215	5.15	1
11031	23478-PeCDF	57117-31-4	0.233	JB	0.0220	5.15	1
11031	123478-HxCDF	70648-26-9	0.361	J	0.0281	5.15	1
11031	123678-HxCDF	57117-44-9	0.148	JB	0.0233	5.15	1
11031	123789-HxCDF	72918-21-9	0.0609	JB	0.0205	5.15	1
11031	234678-HxCDF	60851-34-5	0.149	JB	0.0186	5.15	1
11031	1234678-HpCDF	67562-39-4	0.615	JBQ	0.0183	5.15	1
11031	1234789-HpCDF	55673-89-7	0.0624	JBQ	0.0245	5.15	1
11031	OCDF	39001-02-0	1.00	JB	0.0284	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	91	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	47	26 - 152
13C12-123678-HxCDF	56	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	72	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **DUP01-SA8S-QC-092911 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA8S-QC-092911

LLI Sample # SW 6423883
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:05

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4709 SDG#: DX147-09FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP01-SA8S-QC-092911 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA8S-QC-092911

LLI Sample # SW 6423883
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:05

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4709 SDG#: DX147-09FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11286001	10/16/2011 01:41	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11286001	10/13/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-126-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-126-SA7-SB-4.0-5.0

LLI Sample # SW 6423884
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:33

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4710 SDG#: DX147-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-126-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-126-SA7-SB-4.0-5.0

LLI Sample # SW 6423884
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:33

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4710 SDG#: DX147-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0347	U	0.0347	1.07	1
11031	12378-PeCDD	40321-76-4	0.0266	U	0.0266	5.35	1
11031	123478-HxCDD	39227-28-6	0.0226	U	0.0226	5.35	1
11031	123678-HxCDD	57653-85-7	0.124	JB	0.0231	5.35	1
11031	123789-HxCDD	19408-74-3	0.234	JB	0.0209	5.35	1
11031	1234678-HpCDD	35822-46-9	0.211	JBQ	0.0217	5.35	1
11031	OCDD	3268-87-9	0.577	JB	0.0193	10.7	1
11031	2378-TCDF	51207-31-9	0.0249	U	0.0249	1.07	1
11031	12378-PeCDF	57117-41-6	0.0429	JB	0.0155	5.35	1
11031	23478-PeCDF	57117-31-4	0.0412	JB	0.0145	5.35	1
11031	123478-HxCDF	70648-26-9	0.0232	U	0.0232	5.35	1
11031	123678-HxCDF	57117-44-9	0.0200	U	0.0200	5.35	1
11031	123789-HxCDF	72918-21-9	0.210	JBQ	0.0136	5.35	1
11031	234678-HxCDF	60851-34-5	0.0159	JB	0.0120	5.35	1
11031	1234678-HpCDF	67562-39-4	0.0901	JBQ	0.0170	5.35	1
11031	1234789-HpCDF	55673-89-7	0.0193	JB	0.0156	5.35	1
11031	OCDF	39001-02-0	0.124	JBQ	0.0278	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	36	26 - 152
13C12-123678-HxCDF	41	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	53	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	69	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-126-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-126-SA7-SB-4.0-5.0

LLI Sample # SW 6423884
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:33

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4710 SDG#: DX147-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-126-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-126-SA7-SB-4.0-5.0

LLI Sample # SW 6423884
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 11:33

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4710 SDG#: DX147-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11286001	10/16/2011 02:37	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11286001	10/13/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-127-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-127-SA7-SB-4.0-5.0

LLI Sample # SW 6423885
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:00

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4711 SDG#: DX147-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-127-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-127-SA7-SB-4.0-5.0

LLI Sample # SW 6423885
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:00

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4711 SDG#: DX147-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0177	U	0.0177	1.02	1
11031	12378-PeCDD	40321-76-4	0.0360	J	0.0167	5.11	1
11031	123478-HxCDD	39227-28-6	0.0219	J	0.0146	5.11	1
11031	123678-HxCDD	57653-85-7	0.0346	JB	0.0158	5.11	1
11031	123789-HxCDD	19408-74-3	0.0636	JBQ	0.0146	5.11	1
11031	1234678-HpCDD	35822-46-9	0.284	JB	0.0175	5.11	1
11031	OCDD	3268-87-9	0.862	JB	0.0149	10.2	1
11031	2378-TCDF	51207-31-9	0.0162	U	0.0162	1.02	1
11031	12378-PeCDF	57117-41-6	0.0254	JBQ	0.00973	5.11	1
11031	23478-PeCDF	57117-31-4	0.0610	JBQ	0.00952	5.11	1
11031	123478-HxCDF	70648-26-9	0.0196	U	0.0196	5.11	1
11031	123678-HxCDF	57117-44-9	0.0482	JBQ	0.0180	5.11	1
11031	123789-HxCDF	72918-21-9	0.0500	JBQ	0.0119	5.11	1
11031	234678-HxCDF	60851-34-5	0.0396	JB	0.0104	5.11	1
11031	1234678-HpCDF	67562-39-4	0.163	JB	0.0112	5.11	1
11031	1234789-HpCDF	55673-89-7	0.0235	JBQ	0.0114	5.11	1
11031	OCDF	39001-02-0	0.230	JB	0.0225	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	35	26 - 152
13C12-123678-HxCDF	40	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	53	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	64	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-127-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-127-SA7-SB-4.0-5.0

LLI Sample # SW 6423885
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:00

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4711 SDG#: DX147-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-127-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-127-SA7-SB-4.0-5.0

LLI Sample # SW 6423885
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 10:00

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4711 SDG#: DX147-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11286001	10/18/2011 02:42	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11286001	10/13/2011 12:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-177-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-177-SA7-SB-3.0-4.0

LLI Sample # SW 6423886
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:50

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4712 SDG#: DX147-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-177-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-177-SA7-SB-3.0-4.0

LLI Sample # SW 6423886
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Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:50

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4712 SDG#: DX147-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0319 JQ	0.0314	1.06	1
11031	12378-PeCDD	40321-76-4	0.0346 JBQ	0.0234	5.28	1
11031	123478-HxCDD	39227-28-6	0.0217 U	0.0217	5.28	1
11031	123678-HxCDD	57653-85-7	0.0551 JBQ	0.0204	5.28	1
11031	123789-HxCDD	19408-74-3	0.0930 JBQ	0.0202	5.28	1
11031	1234678-HpCDD	35822-46-9	0.339 JB	0.0214	5.28	1
11031	OCDD	3268-87-9	1.15 JB	0.0208	10.6	1
11031	2378-TCDF	51207-31-9	0.0344 JQ	0.0252	1.06	1
11031	12378-PeCDF	57117-41-6	0.0291 JBQ	0.0138	5.28	1
11031	23478-PeCDF	57117-31-4	0.0135 U	0.0135	5.28	1
11031	123478-HxCDF	70648-26-9	0.0413 JBQ	0.0161	5.28	1
11031	123678-HxCDF	57117-44-9	0.0191 JBQ	0.0139	5.28	1
11031	123789-HxCDF	72918-21-9	0.0556 JQ	0.0176	5.28	1
11031	234678-HxCDF	60851-34-5	0.0511 JBQ	0.0147	5.28	1
11031	1234678-HpCDF	67562-39-4	0.135 JBQ	0.0113	5.28	1
11031	1234789-HpCDF	55673-89-7	0.0411 JBQ	0.0186	5.28	1
11031	OCDF	39001-02-0	0.179 JB	0.0316	10.6	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	70	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-177-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-177-SA7-SB-3.0-4.0

LLI Sample # SW 6423886
LLI Group # 1269115
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:50

Submitted: 09/30/2011 09:30
Reported: 10/24/2011 14:49

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4712 SDG#: DX147-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-177-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-177-SA7-SB-3.0-4.0

LLI Sample # SW 6423886
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/29/2011 08:50

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CDM Federal Programs Corp.
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Suite 210
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X4712 SDG#: DX147-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11292003	10/21/2011 05:00	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11292003	10/19/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11278162403B	10/05/2011 20:16	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269115
Reported: 10/24/11 at 02:49 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11278162403B	Sample number(s): 6423873-6423886								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11286001	Sample number(s): 6423873-6423880,6423883-6423885								
2378-TCDD	0.0626 J	0.0378	1.00	ng/kg	104		67-158		
12378-PeCDD	0.0319 U	0.0319	5.00	ng/kg	102		70-142		
123478-HxCDD	0.0204 U	0.0204	5.00	ng/kg	103		70-164		
123678-HxCDD	0.0344 J	0.0212	5.00	ng/kg	96		76-134		
123789-HxCDD	0.0271 J	0.0204	5.00	ng/kg	100		64-162		
1234678-HpCDD	0.202 J	0.0320	5.00	ng/kg	99		70-140		
OCDD	0.380 J	0.0230	10.0	ng/kg	97		78-144		
2378-TCDF	0.0391 J	0.0342	1.00	ng/kg	107		75-158		
12378-PeCDF	0.0281 J	0.0158	5.00	ng/kg	98		80-134		
23478-PeCDF	0.0553 J	0.0164	5.00	ng/kg	97		68-160		
123478-HxCDF	0.0239 U	0.0239	5.00	ng/kg	98		72-134		
123678-HxCDF	0.0263 J	0.0195	5.00	ng/kg	95		84-130		
123789-HxCDF	0.0293 J	0.0175	5.00	ng/kg	96		78-130		
234678-HxCDF	0.0606 J	0.0151	5.00	ng/kg	98		70-156		
1234678-HpCDF	0.0913 J	0.0121	5.00	ng/kg	95		82-122		
1234789-HpCDF	0.0260 J	0.0168	5.00	ng/kg	98		78-138		
OCDF	0.189 J	0.0416	10.0	ng/kg	99		63-170		
Batch number: 11292003	Sample number(s): 6423881-6423882,6423886								
2378-TCDD	0.0344 U	0.0344	1.00	ng/kg	102		67-158		
12378-PeCDD	0.0488 J	0.0288	5.00	ng/kg	99		70-142		
123478-HxCDD	0.0310 J	0.0190	5.00	ng/kg	96		70-164		
123678-HxCDD	0.0294 J	0.0192	5.00	ng/kg	92		76-134		
123789-HxCDD	0.0415 J	0.0191	5.00	ng/kg	96		64-162		
1234678-HpCDD	0.305 J	0.0224	5.00	ng/kg	95		70-140		
OCDD	0.653 J	0.0196	10.0	ng/kg	93		78-144		
2378-TCDF	0.0262 U	0.0262	1.00	ng/kg	95		75-158		
12378-PeCDF	0.0392 J	0.0149	5.00	ng/kg	98		80-134		
23478-PeCDF	0.0693 J	0.0140	5.00	ng/kg	92		68-160		
123478-HxCDF	0.114 J	0.0232	5.00	ng/kg	96		72-134		
123678-HxCDF	0.0822 J	0.0204	5.00	ng/kg	97		84-130		
123789-HxCDF	0.0174 U	0.0174	5.00	ng/kg	96		78-130		
234678-HxCDF	0.0874 J	0.0146	5.00	ng/kg	93		70-156		
1234678-HpCDF	0.370 J	0.0160	5.00	ng/kg	87		82-122		
1234789-HpCDF	0.0805 J	0.0189	5.00	ng/kg	93		78-138		
OCDF	0.256 J	0.0304	10.0	ng/kg	94		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269115
Reported: 10/24/11 at 02:49 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11278162403B	Sample number(s): 6423873-6423886					BKG: P423856			
Moisture Content by 160.3						3.3	3.3	0	20
Batch number: 11286001	Sample number(s): 6423873-6423880,6423883-6423885 UNSPK: 6423874								
2378-TCDD	105	105	67-158	1	25				
12378-PeCDD	103	104	70-142	1	25				
123478-HxCDD	104	103	70-164	2	25				
123678-HxCDD	100	99	76-134	2	25				
123789-HxCDD	101	100	64-162	2	25				
1234678-HpCDD	102	100	70-140	3	25				
OCDD	103	99	78-144	5	25				
2378-TCDF	102	99	75-158	4	25				
12378-PeCDF	101	101	80-134	2	25				
23478-PeCDF	98	99	68-160	1	25				
123478-HxCDF	96	100	72-134	3	25				
123678-HxCDF	98	99	84-130	1	25				
123789-HxCDF	100	100	78-130	1	25				
234678-HxCDF	100	100	70-156	1	25				
1234678-HpCDF	97	97	82-122	1	25				
1234789-HpCDF	100	100	78-138	1	25				
OCDF	102	100	63-170	3	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11286001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6423873	74	63	40	50	63	57
6423874	72	63	41	51	64	62
6423875	74	67	40	52	68	71
6423876	72	66	49	56	66	67
6423877	60	58	29	31	58	60
6423878	68	65	41	45	65	67
6423879	75	69	41	50	70	69
6423880	77	71	40	49	66	68
6423883	78	70	47	56	70	74
6423884	67	66	36	41	65	67
6423885	67	63	35	40	65	68
Blank	82	75	48	60	76	77
MS	74	67	40	52	68	71
MSD	72	66	49	56	66	67
OPR	69	59	40	53	63	56

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269115
Reported: 10/24/11 at 02:49 PM

Surrogate Quality Control

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6423873	69	56	55	74	78	81
6423874	67	62	62	71	80	77
6423875	72	64	66	76	79	83
6423876	71	64	65	71	80	81
6423877	45	57	59	64	71	70
6423878	61	67	73	73	78	83
6423879	63	69	77	76	83	90
6423880	61	65	64	78	81	78
6423883	73	70	72	78	85	91
6423884	53	66	69	72	76	76
6423885	53	63	64	69	74	74
Blank	86	74	75	85	92	93
MS	72	64	66	76	79	83
MSD	71	64	65	71	80	81
OPR	78	55	55	73	82	84

Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6423873	79	82	82	66	75	
6423874	83	84	85	66	71	
6423875	83	87	92	69	78	
6423876	83	85	85	70	72	
6423877	73	76	76	56	63	
6423878	78	85	92	63	71	
6423879	84	88	95	70	77	
6423880	86	90	85	73	79	
6423883	90	91	92	74	80	
6423884	82	85	86	65	71	
6423885	76	80	82	65	70	
Blank	93	100	105	74	84	
MS	83	87	92	69	78	
MSD	83	85	85	70	72	
OPR	82	87	90	59	70	

Limits:	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11292003

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6423881	73	67	32	36	71	68
6423882	71	67	66	73	70	70
6423886	64	62	63	71	67	63
Blank	76	75	52	58	82	79
OPR	69	67	53	59	70	68

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6423881	54	69	73	72	79	81

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269115
Reported: 10/24/11 at 02:49 PM

Surrogate Quality Control

6423882	85	70	73	68	70	66
6423886	90	66	70	68	77	84
Blank	81	85	90	80	89	93
OPR	80	70	73	74	81	80
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6423881	81	87	91	71	74
6423882	82	86	88	68	71
6423886	82	86	92	60	68
Blank	93	102	109	71	77
OPR	83	89	92	64	72
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cp# 1269115 Sample# 6423873-86

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures: Vidal Cotin

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SS ONLY		Other Instructions and Notes
						*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	
SL-001-SA8S-0.0-0.5	9/29/11	1125	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-001-SA8S-0.0-0.5	9/29/11	1125	SOIL	NONE	1-SS Sleeve			X	X								
SL-003-SA8S-0.0-0.5MS	9/29/11	0955	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X	X	MS/MSD sample
SL-003-SA8S-0.0-0.5MS	9/29/11	0955	SOIL	NONE	2-SS Sleeves			X	X								MS/MSD sample
SL-005-SA8S-0.0-0.5	9/29/11	0840	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-005-SA8S-0.0-0.5	9/29/11	0840	SOIL	NONE	1-SS Sleeve			X	X								
SL-007-SA8S-0.0-0.5	9/29/11	0800	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-007-SA8S-0.0-0.5	9/29/11	0800	SOIL	NONE	1-SS Sleeve			X	X								
SL-013-SA8S-0.0-0.5	9/29/11	1455	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-013-SA8S-0.0-0.5	9/29/11	1455	SOIL	NONE	1-SS Sleeve			X	X								
SL-014-SA8S-0.0-0.5	9/29/11	1510	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-014-SA8S-0.0-0.5	9/29/11	1510	SOIL	NONE	1-SS Sleeve			X	X								
SL-015-SA8S-0.0-0.5	9/29/11	1530	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-015-SA8S-0.0-0.5	9/29/11	1530	SOIL	NONE	1-SS Sleeve			X	X								
SL-024-SA8S-0.0-0.5	9/29/11	1415	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-024-SA8S-0.0-0.5	9/29/11	1415	SOIL	NONE	1-SS Sleeve			X	X								
DUP01-SA8S-QC-092911	9/29/11	1005	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
DUP01-SA8S-QC-092911	9/29/11	1005	SOIL	NONE	1-SS Sleeve			X	X								

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
Brian Thom	09/29/2011 / 1630	Mary Hahn LLI 9/30/11 0930	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No(s)**	
		8767 9857 4434; 8767 9858 3520	

acct#13013 Grp#1269115 Sample#6423373-56

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
						*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	
SL-126-SA7-SB-4.0-5.0	9/29/11	1133	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X												
SL-127-SA7-SB-4.0-5.0	9/29/11	1000	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X												
SL-177-SA7-SB-3.5	9/29/11	0845	SOIL	NONE	2-Encores										X										
SL-177-SA7-SB-3.0-4.0	9/29/11	0850	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X					X	X	X	X	
TB-092911	9/29/11	1430	WATER	NONE	4-40mL vials										X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	09/29/2011 / 1630	LLJ 9/30/11 0930	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8767 9857 4434; 8767 9858 3520	

Nicole Maljovec

From: Nicole Maljovec
Sent: Friday, September 30, 2011 10:10 PM
To: 'Bloisa, Peggy'
Subject: FW: COC for 9/29/2011- Surface samples are missing "-SS"
Attachments: COC_09_29_11.xlsx

One more and then I'm done. The SS is missing in the sample IDs for the surface samples. We added them in. if the –SS- shouldn't be included, please let me know.

Thanks!

From: Bloisa, Peggy [mailto:BloisaMJ@cdm.com]
Sent: Thursday, September 29, 2011 8:15 PM
To: Nicole Maljovec; SA Env Entry
Cc: Burgesser, Todd; Zakowski, Cherie; Hartman, Pamela; Laura Rainey
Subject: COC for 9/29/2011

Subsurface sampling continued in Subarea 7. Surface sampling started in Subarea 8 South today.

See attached COC.

Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|


Please consider the environment before printing this email.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 08, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/01/2011
Group Number: 1269321
SDG: DE259
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-008-SA8S-SS-0.0-0.5 Soil	6426110
SL-009-SA8S-SS-0.0-0.5 Soil	6426111
SL-010-SA8S-SS-0.0-0.5 Soil	6426112
SL-011-SA8S-SS-0.0-0.5 Soil	6426113
SL-012-SA8S-SS-0.0-0.5 Soil	6426114
SL-016-SA8S-SS-0.0-0.5 Soil	6426115
SL-017-SA8S-SS-0.0-0.5 Soil	6426116
SL-018-SA8S-SS-0.0-0.5 Soil	6426117
SL-019-SA8S-SS-0.0-0.5 Soil	6426118
SL-020-SA8S-SS-0.0-0.5 Soil	6426119
SL-021-SA8S-SS-0.0-0.5 Soil	6426120
SL-022-SA8S-SS-0.0-0.5 Soil	6426121
SL-023-SA8S-SS-0.0-0.5 Soil	6426122
SL-084-SA7-SB-0.0-1.0 Soil	6426123
SL-113-SA7-SB-0.0-1.0 Soil	6426124
SL-115-SA7-SB-0.5-1.5 Soil	6426125
SL-132-SA7-SB-4.0-5.0 Soil	6426126
SL-132-SA7-SB-8.5-9.5 Soil	6426127
SL-180-SA7-SB-2.0-3.0 Soil	6426128
FB-SA7-SB-093011 Water	6426129
EB-SA7-SB-093011 Water	6426130
TB-092911 Sand	6426131
TB-092911 Water	6426132
TB-092911 Water	6426133

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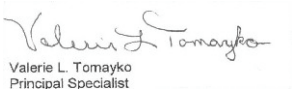
Analysis Report

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Valerie L. Tomayko
Principal Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-008-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SS-0.0-0.5

LLI Sample # SW 6426110
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:20

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5901 SDG#: DE259-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-008-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SS-0.0-0.5

LLI Sample # SW 6426110
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:20

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5901 SDG#: DE259-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.48	J	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	1.0	J	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	1.5	J	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	2.5		0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.80	J	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	7.9		0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	11	J	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	2.7		0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	22		6.4	19	1
10138	Fluoranthene	206-44-0	3.3		0.71	1.8	1
10138	Fluorene	86-73-7	0.84	J	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	1.4	J	0.71	1.8	1
10138	Pyrene	129-00-0	2.2		0.71	1.8	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 12 ug/kg. The blank value was not subtracted from the analytical result.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	1.3	U	1.3	1.8	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8	1
10401	MCPA	94-74-6	81	U	81	270	1
10401	MCPP (Mecoprop)	93-65-2	190	J	80	270	1
10401	2,4,5-T	93-76-5	0.11	U	0.11	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does

Sample Description: **SL-008-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SS-0.0-0.5

LLI Sample # SW 6426110
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:20

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5901 SDG#: DE259-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.040	U	0.040	0.18	1
01363	Chlordane	57-74-9	6.0		0.86	3.6	1
01363	p,p-DDD	72-54-8	0.18	U	0.18	0.36	1
01363	p,p-DDE	72-55-9	8.8		0.71	3.6	10
01363	p,p-DDT	50-29-3	4.9		0.71	3.6	10
01363	Delta BHC	319-86-8	0.54	U	0.54	0.54	1
01363	Dieldrin	60-57-1	0.35	U	0.35	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.36	1
01363	Endrin	72-20-8	0.25	U	0.25	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.63	U	0.63	0.63	1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.15	U	0.15	0.18	1
01363	Methoxychlor	72-43-5	1.6	U	1.6	1.8	1
01363	Mirex	2385-85-5	0.36	U	0.36	0.36	1
01363	Toxaphene	8001-35-2	17		2.4	7.1	1
	The sample was injected after maintenance and a new calibration. Toxaphene in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	3.2	J	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	3.6		0.35	1.8	1
10225	PCB-1260	11096-82-5	2.4		0.42	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,100		6.48	21.4	1
07914	Boron	7440-42-8	12.2		0.386	5.36	1
01650	Calcium	7440-70-2	84,200		13.4	107	5
01654	Iron	7439-89-6	27,000		2.80	21.4	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-008-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SS-0.0-0.5

LLI Sample # SW 6426110
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:20

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5901 SDG#: DE259-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	21.0		0.66	2.1	1
01657	Magnesium	7439-95-4	7,570		0.472	10.7	1
06958	Manganese	7439-96-5	386		0.0386	0.536	1
10145	Phosphorus	7723-14-0	588		0.375	10.7	1
01662	Potassium	7440-09-7	5,660		12.1	53.6	1
01667	Sodium	7440-23-5	108		6.38	107	1
07968	Strontium	7440-24-6	108		0.0268	0.536	1
06969	Tin	7440-31-5	2.28	J	0.343	10.7	1
06970	Titanium	7440-32-6	1,020		0.0761	1.07	1
	The Laboratory Control Sample for Titanium recovered at 77%. The Titanium LCS windows are 80-120%. After consultation with the client the data was accepted.						
10146	Zirconium	7440-67-7	4.12	J	0.493	5.36	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.192	J	0.0763	0.206	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.55		0.0824	0.412	2
06126	Barium	7440-39-3	96.3		0.109	0.412	2
06127	Beryllium	7440-41-7	0.675		0.0165	0.103	2
06128	Cadmium	7440-43-9	0.295		0.0453	0.103	2
06131	Chromium	7440-47-3	28.9		0.124	0.412	2
06132	Cobalt	7440-48-4	10.6		0.0206	0.103	2
06133	Copper	7440-50-8	21.0		0.0824	0.412	2
06135	Lead	7439-92-1	21.9		0.0105	0.206	2
06138	Molybdenum	7439-98-7	0.440		0.0515	0.103	2
06139	Nickel	7440-02-0	19.9		0.103	0.412	2
06141	Selenium	7782-49-2	0.268	J	0.0598	0.412	2
06142	Silver	7440-22-4	0.0303	J	0.0146	0.103	2
06145	Thallium	7440-28-0	0.339		0.0309	0.103	2
06148	Vanadium	7440-62-2	52.9		0.0227	0.103	2
06149	Zinc	7440-66-6	70.9		0.577	3.09	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0414	J	0.0075	0.107	1
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.69	J	0.21	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.59		0.0100	0.0100	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-008-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SS-0.0-0.5

LLI Sample # SW 6426110
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:20

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5901 SDG#: DE259-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	6.7	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLC026	10/17/2011 18:45	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/15/2011 12:15	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112830002A	10/12/2011 19:33	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/17/2011 04:08	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/17/2011 04:53	Melissa McDermott	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/18/2011 18:47	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112840037A	10/12/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112830002A	10/11/2011 07:45	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 08:03	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 08:03	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/14/2011 04:54	Tara L Snyder	5
01654	Iron	SW-846 6010B	1	112795708003	10/13/2011 08:03	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 08:03	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 08:03	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 08:03	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 08:03	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 08:03	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 08:03	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 08:03	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 08:03	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112795708003	10/13/2011 08:03	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 08:03	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 07:52	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 07:52	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-008-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA8S-SS-0.0-0.5

LLI Sample # SW 6426110
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:20

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5901 SDG#: DE259-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 07:52	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 07:52	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 07:52	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 07:52	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 07:52	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 07:52	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 07:52	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 07:52	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 07:52	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 07:52	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 07:52	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 07:52	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 07:52	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 07:52	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 08:32	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201A	10/14/2011 11:50	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11284243201A	10/14/2011 14:10	Elyse P Brunstetter	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201A	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401A	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401A	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SS-0.0-0.5

LLI Sample # SW 6426111
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 10:23

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5902 SDG#: DE259-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	70	U	70	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	70	U	70	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-009-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SS-0.0-0.5

LLI Sample # SW 6426111
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 10:23

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5902 SDG#: DE259-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.75	J	0.70	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.93	J	0.70	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	2.6		0.70	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	J	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	1.0	J	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	24		6.3	19	1
10138	Fluoranthene	206-44-0	1.7	J	0.70	1.8	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.92	J	0.70	1.8	1
10138	Pyrene	129-00-0	1.4	J	0.70	1.8	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 12 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.5	1
10401	2,4-DB	94-82-6	0.65	U	0.65	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.84	U	0.84	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U	0.84	1.8	1
10401	MCPA	94-74-6	320		80	260	1
10401	MCPP (Mecoprop)	93-65-2	110	J	79	260	1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18	1
10401	2,4,5-TP	93-72-1	0.079	U	0.079	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Sample Description: **SL-009-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SS-0.0-0.5

LLI Sample # SW 6426111
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 10:23

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Reported: 11/08/2011 12:18

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E5902 SDG#: DE259-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18	1
01363	Chlordane	57-74-9	2.3	J	0.84	3.6	1
01363	p,p-DDD	72-54-8	0.070	U	0.070	0.36	1
01363	p,p-DDE	72-55-9	0.44		0.070	0.36	1
01363	p,p-DDT	50-29-3	0.69		0.070	0.36	1
01363	Delta BHC	319-86-8	0.040	J	0.038	0.18	1
01363	Dieldrin	60-57-1	0.070	U	0.070	0.36	1
01363	Endosulfan I	959-98-8	0.046	U	0.046	0.18	1
01363	Endosulfan II	33213-65-9	0.15	U	0.15	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36	1
01363	Endrin	72-20-8	0.070	U	0.070	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.29	U	0.29	0.36	1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.042	U	0.042	0.18	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8	1
01363	Mirex	2385-85-5	0.15	U	0.15	0.36	1
01363	Toxaphene	8001-35-2	4.7	J	4.6	7.0	1

The sample was injected after maintenance and a new calibration.
Toxaphene in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

Metals	**SW-846 6010B**	**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,300	6.26	20.7	1
07914	Boron	7440-42-8	8.16	0.373	5.18	1
01650	Calcium	7440-70-2	122,000	12.9	104	5
01654	Iron	7439-89-6	23,000	2.70	20.7	1
01656	Lithium	7439-93-2	27.1	0.64	2.1	1
01657	Magnesium	7439-95-4	6,950	0.456	10.4	1
06958	Manganese	7439-96-5	372	0.0373	0.518	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-009-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SS-0.0-0.5

LLI Sample # SW 6426111
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 10:23

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5902 SDG#: DE259-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	424		0.362	10.4	1
01662	Potassium	7440-09-7	3,680		11.7	51.8	1
01667	Sodium	7440-23-5	114		6.16	104	1
07968	Strontium	7440-24-6	121		0.0259	0.518	1
06969	Tin	7440-31-5	1.85	J	0.331	10.4	1
06970	Titanium	7440-32-6	870		0.0735	1.04	1
10146	Zirconium	7440-67-7	3.48	J	0.476	5.18	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0766	U	0.0766	0.207	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.53		0.0828	0.414	2
06126	Barium	7440-39-3	63.6		0.110	0.414	2
06127	Beryllium	7440-41-7	0.521		0.0166	0.104	2
06128	Cadmium	7440-43-9	0.212		0.0456	0.104	2
06131	Chromium	7440-47-3	25.6		0.124	0.414	2
06132	Cobalt	7440-48-4	5.78		0.0207	0.104	2
06133	Copper	7440-50-8	12.4		0.0828	0.414	2
06135	Lead	7439-92-1	9.34		0.0106	0.207	2
06138	Molybdenum	7439-98-7	0.130		0.0518	0.104	2
06139	Nickel	7440-02-0	12.6		0.104	0.414	2
06141	Selenium	7782-49-2	0.167	J	0.0600	0.414	2
06142	Silver	7440-22-4	0.0147	U	0.0147	0.104	2
06145	Thallium	7440-28-0	0.224		0.0311	0.104	2
06148	Vanadium	7440-62-2	39.3		0.0228	0.104	2
06149	Zinc	7440-66-6	45.2		0.580	3.11	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0148	J	0.0073	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.86	U	0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.62	J	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.83		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.3		0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-009-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SS-0.0-0.5

LLI Sample # SW 6426111
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 10:23

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5902 SDG#: DE259-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLC026	10/17/2011 20:00	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/15/2011 10:39	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112830002A	10/12/2011 20:55	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/16/2011 22:30	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/18/2011 19:43	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112840037A	10/12/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112830002A	10/11/2011 07:45	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 08:29	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 08:29	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/14/2011 05:27	Tara L Snyder	5
01654	Iron	SW-846 6010B	1	112795708003	10/13/2011 08:29	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 08:29	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 08:29	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 08:29	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 08:29	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 08:29	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 08:29	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 08:29	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 08:29	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112915708001	10/19/2011 12:09	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 08:29	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 08:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 08:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 08:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 08:10	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-009-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA8S-SS-0.0-0.5

LLI Sample # SW 6426111
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 10:23

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5902 SDG#: DE259-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 08:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 08:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 08:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 08:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 08:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 08:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 08:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 08:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 08:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 08:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 08:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 08:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 08:40	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112875708001	10/17/2011 11:09	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112915708001	10/18/2011 22:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11287621201A	10/15/2011 06:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201A	10/14/2011 12:59	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11284243201A	10/14/2011 14:32	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11287621201A	10/14/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201A	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401A	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401A	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-010-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SS-0.0-0.5

LLI Sample # SW 6426112
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:45

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5903 SDG#: DE259-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Fluoranthene	206-44-0	19	J	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-010-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SS-0.0-0.5

LLI Sample # SW 6426112
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:45

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5903 SDG#: DE259-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.37	J	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	1.3	J	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	1.8		0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	3.4		0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	10		0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	47		6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	3.9		0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	25		6.4	19	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.97	J	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.95	J	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	2.8		0.71	1.8	1
10138	Pyrene	129-00-0	3.8		0.71	1.8	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 12 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.8	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8	1
10401	MCPA	94-74-6	100	U	100	270	1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270	1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Sample Description: **SL-010-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SS-0.0-0.5

LLI Sample # SW 6426112
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:45

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5903 SDG#: DE259-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18	1
01363	Chlordane	57-74-9	4.2		0.86	3.6	1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.36	1
01363	p,p-DDE	72-55-9	5.4		0.71	3.6	10
01363	p,p-DDT	50-29-3	3.2	J	0.71	3.6	10
01363	Delta BHC	319-86-8	0.52		0.039	0.18	1
01363	Dieldrin	60-57-1	0.093	U	0.093	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.13	U	0.13	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.36	1
01363	Endrin	72-20-8	0.071	U	0.071	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.26	U	0.26	0.36	1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.18	1
01363	Methoxychlor	72-43-5	0.80	U	0.80	1.8	1
01363	Mirex	2385-85-5	0.20	U	0.20	0.36	1
01363	Toxaphene	8001-35-2	8.1	U	8.1	8.1	1

The sample was injected after maintenance and a new calibration.
Toxaphene in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	5.5		1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	5.4		0.35	1.8	1
10225	PCB-1260	11096-82-5	3.3		0.42	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,800		6.48	21.4	1
07914	Boron	7440-42-8	12.1		0.386	5.36	1
01650	Calcium	7440-70-2	107,000		13.4	107	5
01654	Iron	7439-89-6	25,400		2.80	21.4	1
01656	Lithium	7439-93-2	21.7		0.66	2.1	1
01657	Magnesium	7439-95-4	7,290		0.472	10.7	1
06958	Manganese	7439-96-5	355		0.0386	0.536	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-010-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SS-0.0-0.5

LLI Sample # SW 6426112
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:45

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5903 SDG#: DE259-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	507		0.375	10.7	1
01662	Potassium	7440-09-7	5,340		12.1	53.6	1
01667	Sodium	7440-23-5	117		6.38	107	1
07968	Strontium	7440-24-6	134		0.0268	0.536	1
06969	Tin	7440-31-5	2.21	J	0.343	10.7	1
06970	Titanium	7440-32-6	971		0.0739	1.04	1
10146	Zirconium	7440-67-7	4.23	J	0.493	5.36	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.134	J	0.0793	0.214	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.85		0.0857	0.429	2
06126	Barium	7440-39-3	76.3		0.114	0.429	2
06127	Beryllium	7440-41-7	0.573		0.0171	0.107	2
06128	Cadmium	7440-43-9	0.310		0.0472	0.107	2
06131	Chromium	7440-47-3	26.5		0.129	0.429	2
06132	Cobalt	7440-48-4	9.15		0.0214	0.107	2
06133	Copper	7440-50-8	17.2		0.0857	0.429	2
06135	Lead	7439-92-1	26.1		0.0109	0.214	2
06138	Molybdenum	7439-98-7	0.302		0.0536	0.107	2
06139	Nickel	7440-02-0	17.5		0.107	0.429	2
06141	Selenium	7782-49-2	0.187	J	0.0622	0.429	2
06142	Silver	7440-22-4	0.0152	U	0.0152	0.107	2
06145	Thallium	7440-28-0	0.225		0.0322	0.107	2
06148	Vanadium	7440-62-2	44.7		0.0236	0.107	2
06149	Zinc	7440-66-6	57.3		0.600	3.22	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0308	J	0.0073	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.85	U	0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.1		0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.88		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.7		0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-010-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SS-0.0-0.5

LLI Sample # SW 6426112
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:45

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5903 SDG#: DE259-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLC026	10/17/2011 20:25	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/15/2011 12:48	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112830002A	10/12/2011 21:23	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/16/2011 23:15	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/16/2011 23:30	Melissa McDermott	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/18/2011 20:02	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112840037A	10/12/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112830002A	10/11/2011 07:45	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 08:41	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 08:41	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/14/2011 05:35	Tara L Snyder	5
01654	Iron	SW-846 6010B	1	112795708003	10/13/2011 08:41	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 08:41	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 08:41	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 08:41	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 08:41	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 08:41	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 08:41	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 08:41	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 08:41	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112915708001	10/19/2011 12:36	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 08:41	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 08:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 08:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 08:13	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-010-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-010-SA8S-SS-0.0-0.5

LLI Sample # SW 6426112
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:45

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5903 SDG#: DE259-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 08:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 08:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 08:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 08:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 08:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 08:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 08:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 08:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 08:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 08:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 08:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 08:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 08:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 08:41	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112875708001	10/17/2011 11:09	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112915708001	10/18/2011 22:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11287621201A	10/15/2011 07:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201A	10/14/2011 13:45	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11284243201A	10/14/2011 14:46	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11287621201A	10/14/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201A	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401A	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401A	10/12/2011 20:02	Scott W Freisher	1

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Analysis Report

Sample Description: SL-011-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SS-0.0-0.5

LLI Sample # SW 6426113
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:15

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5904 SDG#: DE259-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-011-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SS-0.0-0.5

LLI Sample # SW 6426113
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:15

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5904 SDG#: DE259-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	1.6	J	0.35	1.8	1
10138	Anthracene	120-12-7	0.56	J	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	13		0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	6.2		0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	8.6		0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.8		0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	11		0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	210		6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	18		0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	1.5	J	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	60		6.4	19	1
10138	Fluoranthene	206-44-0	12		0.71	1.8	1
10138	Fluorene	86-73-7	2.0		0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.2	J	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.93	J	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	3.4		0.71	1.8	1
10138	Pyrene	129-00-0	11		0.71	1.8	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 12 ug/kg. The blank value was not subtracted from the analytical result.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.8	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8	1
10401	MCPA	94-74-6	340	U	340	340	1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270	1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does

Sample Description: **SL-011-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SS-0.0-0.5

LLI Sample # SW 6426113
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:15

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5904 SDG#: DE259-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18	1
01363	Chlordane	57-74-9	4.0		0.85	3.6	1
01363	p,p-DDD	72-54-8	0.14	U	0.14	0.36	1
01363	p,p-DDE	72-55-9	2.8		0.070	0.36	1
01363	p,p-DDT	50-29-3	1.8		0.070	0.36	1
01363	Delta BHC	319-86-8	0.15	U	0.15	0.18	1
01363	Dieldrin	60-57-1	0.24	U	0.24	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36	1
01363	Endrin	72-20-8	0.070	U	0.070	0.36	1
01363	Endrin Aldehyde	7421-93-4	1.2	U	1.2	1.2	1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.15	U	0.15	0.18	1
01363	Methoxychlor	72-43-5	0.95	U	0.95	1.8	1
01363	Mirex	2385-85-5	0.22	U	0.22	0.36	1
01363	Toxaphene	8001-35-2	9.4	U	9.4	9.4	1
	The sample was injected after maintenance and a new calibration. Toxaphene in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,400		6.31	20.9	1
07914	Boron	7440-42-8	10.2		0.375	5.21	1
01650	Calcium	7440-70-2	70,400		13.0	104	5
01654	Iron	7439-89-6	26,500		2.72	20.9	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-011-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SS-0.0-0.5

LLI Sample # SW 6426113
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:15

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5904 SDG#: DE259-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	21.3		0.65	2.1	1
01657	Magnesium	7439-95-4	7,330		0.459	10.4	1
06958	Manganese	7439-96-5	356		0.0375	0.521	1
10145	Phosphorus	7723-14-0	620		0.365	10.4	1
01662	Potassium	7440-09-7	5,170		11.8	52.1	1
01667	Sodium	7440-23-5	98.1	J	6.21	104	1
07968	Strontium	7440-24-6	91.5		0.0261	0.521	1
06969	Tin	7440-31-5	2.27	J	0.334	10.4	1
06970	Titanium	7440-32-6	1,080		0.0748	1.05	1
10146	Zirconium	7440-67-7	3.21	J	0.480	5.21	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.105	J	0.0764	0.207	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.57		0.0826	0.413	2
06126	Barium	7440-39-3	74.7		0.109	0.413	2
06127	Beryllium	7440-41-7	0.591		0.0165	0.103	2
06128	Cadmium	7440-43-9	0.312		0.0454	0.103	2
06131	Chromium	7440-47-3	30.1		0.124	0.413	2
06132	Cobalt	7440-48-4	8.24		0.0207	0.103	2
06133	Copper	7440-50-8	16.2		0.0826	0.413	2
06135	Lead	7439-92-1	19.8		0.0105	0.207	2
06138	Molybdenum	7439-98-7	0.431		0.0516	0.103	2
06139	Nickel	7440-02-0	16.2		0.103	0.413	2
06141	Selenium	7782-49-2	0.259	J	0.0599	0.413	2
06142	Silver	7440-22-4	0.0405	J	0.0147	0.103	2
06145	Thallium	7440-28-0	0.257		0.0310	0.103	2
06148	Vanadium	7440-62-2	51.5		0.0227	0.103	2
06149	Zinc	7440-66-6	58.7		0.578	3.10	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0257	J	0.0074	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.87	U	0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	31.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.67		0.0100	0.0100	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-011-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SS-0.0-0.5

LLI Sample # SW 6426113
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:15

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5904 SDG#: DE259-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	6.0	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLC026	10/17/2011 20:51	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/15/2011 13:20	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112830002A	10/12/2011 21:50	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/16/2011 23:44	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/18/2011 20:20	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112840037A	10/12/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112830002A	10/11/2011 07:45	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 08:46	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 08:46	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/14/2011 05:39	Tara L Snyder	5
01654	Iron	SW-846 6010B	1	112795708003	10/13/2011 08:46	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 08:46	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 08:46	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 08:46	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 08:46	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 08:46	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 08:46	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 08:46	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 08:46	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112915708001	10/19/2011 12:40	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 08:46	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 08:23	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 08:23	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 08:23	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-011-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA8S-SS-0.0-0.5

LLI Sample # SW 6426113
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:15

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5904 SDG#: DE259-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 08:23	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 08:23	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 08:23	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 08:23	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 08:23	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 08:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 08:23	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 08:23	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 08:23	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 08:23	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 08:23	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 08:23	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 08:23	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 08:42	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112875708001	10/17/2011 11:09	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112915708001	10/18/2011 22:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11287621201A	10/15/2011 07:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201A	10/14/2011 14:08	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11284243201A	10/14/2011 14:53	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11287621201A	10/14/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201A	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401A	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401A	10/12/2011 20:02	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-012-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SS-0.0-0.5

LLI Sample # SW 6426114
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:00

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5905 SDG#: DE259-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J	18	360	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-012-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SS-0.0-0.5

LLI Sample # SW 6426114
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:00

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5905 SDG#: DE259-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.97	J	0.70	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.8	1
10138	Butylbenzylphthalate	85-68-7	31		6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.8	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.8	1
10138	Pyrene	129-00-0	0.70	U	0.70	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	1.4	J	0.66	1.8	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8	1
10401	MCPA	94-74-6	81	U	81	270	1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270	1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1
	The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-012-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SS-0.0-0.5

LLI Sample # SW 6426114
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:00

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5905 SDG#: DE259-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18	1
01363	Chlordane	57-74-9	1.6	J	0.85	3.6	1
01363	p,p-DDD	72-54-8	0.070	U	0.070	0.36	1
01363	p,p-DDE	72-55-9	2.2		0.070	0.36	1
01363	p,p-DDT	50-29-3	1.8		0.070	0.36	1
01363	Delta BHC	319-86-8	1.4	U	1.4	1.4	1
01363	Dieldrin	60-57-1	0.15	U	0.15	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36	1
01363	Endrin	72-20-8	0.098	U	0.098	0.36	1
01363	Endrin Aldehyde	7421-93-4	1.2	U	1.2	1.2	1
01363	Endrin Ketone	53494-70-5	0.31	U	0.31	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.13	U	0.13	0.18	1
01363	Methoxychlor	72-43-5	2.2	U	2.2	2.2	1
01363	Mirex	2385-85-5	0.46	U	0.46	0.46	1
01363	Toxaphene	8001-35-2	13	U	13	13	1

The sample was injected after maintenance and a new calibration.
Toxaphene in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	2.4	J	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	14		0.35	1.8	1
10225	PCB-1260	11096-82-5	2.2		0.42	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,400		6.27	20.7	1
07914	Boron	7440-42-8	11.6		0.373	5.18	1
01650	Calcium	7440-70-2	36,200		2.59	20.7	1
01654	Iron	7439-89-6	36,800		13.5	104	5
01656	Lithium	7439-93-2	31.2		0.64	2.1	1
01657	Magnesium	7439-95-4	9,210		0.456	10.4	1
06958	Manganese	7439-96-5	307		0.0373	0.518	1
10145	Phosphorus	7723-14-0	678		0.363	10.4	1
01662	Potassium	7440-09-7	5,170		11.7	51.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-012-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SS-0.0-0.5

LLI Sample # SW 6426114
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:00

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5905 SDG#: DE259-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01667	Sodium	7440-23-5	114		6.17	104	1
07968	Strontium	7440-24-6	81.7		0.0259	0.518	1
06969	Tin	7440-31-5	1.98	J	0.332	10.4	1
06970	Titanium	7440-32-6	1,490		0.0750	1.06	1
10146	Zirconium	7440-67-7	3.28	J	0.477	5.18	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.141	J	0.0774	0.209	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.06		0.0837	0.419	2
06126	Barium	7440-39-3	116		0.111	0.419	2
06127	Beryllium	7440-41-7	0.757		0.0167	0.105	2
06128	Cadmium	7440-43-9	0.247		0.0460	0.105	2
06131	Chromium	7440-47-3	32.0		0.126	0.419	2
06132	Cobalt	7440-48-4	12.2		0.0209	0.105	2
06133	Copper	7440-50-8	21.7		0.0837	0.419	2
06135	Lead	7439-92-1	17.6		0.0107	0.209	2
06138	Molybdenum	7439-98-7	0.362		0.0523	0.105	2
06139	Nickel	7440-02-0	20.5		0.105	0.419	2
06141	Selenium	7782-49-2	0.331	J	0.0607	0.419	2
06142	Silver	7440-22-4	0.0384	J	0.0149	0.105	2
06145	Thallium	7440-28-0	0.342		0.0314	0.105	2
06148	Vanadium	7440-62-2	64.7		0.0230	0.105	2
06149	Zinc	7440-66-6	77.0		0.586	3.14	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0329	J	0.0072	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.85	U	0.85	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.72		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.3		0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-012-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SS-0.0-0.5

LLI Sample # SW 6426114
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:00

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5905 SDG#: DE259-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLC026	10/17/2011 21:16	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/15/2011 13:54	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112830002A	10/12/2011 22:18	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/17/2011 00:14	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/18/2011 20:39	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112840037A	10/12/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112830002A	10/11/2011 07:45	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 08:50	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 08:50	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/13/2011 08:50	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112795708003	10/14/2011 05:59	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 08:50	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 08:50	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 08:50	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 08:50	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 08:50	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 08:50	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 08:50	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 08:50	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112915708001	10/19/2011 12:53	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 08:50	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 08:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 08:26	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 08:26	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 08:26	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-012-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-012-SA8S-SS-0.0-0.5

LLI Sample # SW 6426114
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:00

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5905 SDG#: DE259-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 08:26	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 08:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 08:26	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 08:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 08:26	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 08:26	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 08:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 08:26	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 08:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 08:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 08:26	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 08:26	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 08:43	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112875708001	10/17/2011 11:09	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112915708001	10/18/2011 22:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11287621201A	10/15/2011 07:58	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201A	10/14/2011 14:31	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11284243201A	10/14/2011 15:08	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11287621201A	10/14/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201A	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401A	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401A	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-016-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8S-SS-0.0-0.5

LLI Sample # SW 6426115
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:17

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5906 SDG#: DE259-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	230	J	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	70	U	70	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	36	J	17	350	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	70	U	70	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-016-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8S-SS-0.0-0.5

LLI Sample # SW 6426115
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:17

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5906 SDG#: DE259-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	30	J	17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	1.3	J	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	4.7		0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	26		6.2	19	1
10138	Di-n-butylphthalate	84-74-2	8.0	J	6.2	19	1
10138	Chrysene	218-01-9	1.6	J	0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Fluoranthene	206-44-0	1.7	J	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.73	J	0.69	1.7	1
10138	Pyrene	129-00-0	1.1	J	0.69	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.4	1
10401	2,4-DB	94-82-6	1.6	U	1.6	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.2	1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8	1
10401	MCPA	94-74-6	1,600		79	260	1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260	1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18	1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.069	U	0.069	0.17	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-016-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8S-SS-0.0-0.5

LLI Sample # SW 6426115
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:17

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5906 SDG#: DE259-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.063	U	0.063	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	1.3	J	0.83	3.5	1
01363	p,p-DDD	72-54-8	0.069	U	0.069	0.35	1
01363	p,p-DDE	72-55-9	2.0		0.069	0.35	1
01363	p,p-DDT	50-29-3	2.1		0.069	0.35	1
01363	Delta BHC	319-86-8	0.50		0.038	0.17	1
01363	Dieldrin	60-57-1	0.33	J	0.069	0.35	1
01363	Endosulfan I	959-98-8	0.12	J	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.069	U	0.069	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.069	U	0.069	0.35	1
01363	Endrin	72-20-8	0.069	U	0.069	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.80	U	0.80	0.80	1
01363	Endrin Ketone	53494-70-5	0.069	U	0.069	0.35	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.11	J	0.035	0.17	1
01363	Methoxychlor	72-43-5	2.0	U	2.0	2.0	1
01363	Mirex	2385-85-5	0.55	U	0.55	0.55	1
01363	Toxaphene	8001-35-2	13	U	13	13	1

The sample was injected after maintenance and a new calibration.
Toxaphene in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.4	J	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	1.1	J	0.34	1.8	1
10225	PCB-1254	11097-69-1	6.8		0.34	1.8	1
10225	PCB-1260	11096-82-5	2.8		0.41	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	22,600		6.31	20.9	1
07914	Boron	7440-42-8	9.38		0.375	5.21	1
01650	Calcium	7440-70-2	12,400		2.61	20.9	1
01654	Iron	7439-89-6	26,200		2.72	20.9	1
01656	Lithium	7439-93-2	21.6		0.65	2.1	1
01657	Magnesium	7439-95-4	6,900		0.459	10.4	1
06958	Manganese	7439-96-5	462		0.0375	0.521	1
10145	Phosphorus	7723-14-0	827		0.365	10.4	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-016-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA8S-SS-0.0-0.5

LLI Sample # SW 6426115
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:17

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5906 SDG#: DE259-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	6,450		11.8	52.1	1
01667	Sodium	7440-23-5	86.5	J	6.20	104	1
07968	Strontium	7440-24-6	28.9		0.0261	0.521	1
06969	Tin	7440-31-5	2.19	J	0.334	10.4	1
06970	Titanium	7440-32-6	1,220		0.0733	1.03	1
10146	Zirconium	7440-67-7	2.69	J	0.480	5.21	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.132	J	0.0772	0.209	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.22		0.0834	0.417	2
06126	Barium	7440-39-3	109		0.111	0.417	2
06127	Beryllium	7440-41-7	0.698		0.0167	0.104	2
06128	Cadmium	7440-43-9	0.396		0.0459	0.104	2
06131	Chromium	7440-47-3	28.8		0.125	0.417	2
06132	Cobalt	7440-48-4	10.1		0.0209	0.104	2
06133	Copper	7440-50-8	19.8		0.0834	0.417	2
06135	Lead	7439-92-1	14.4		0.0106	0.209	2
06138	Molybdenum	7439-98-7	0.574		0.0521	0.104	2
06139	Nickel	7440-02-0	20.3		0.104	0.417	2
06141	Selenium	7782-49-2	0.207	J	0.0605	0.417	2
06142	Silver	7440-22-4	0.0519	J	0.0148	0.104	2
06145	Thallium	7440-28-0	0.341		0.0313	0.104	2
06148	Vanadium	7440-62-2	49.4		0.0229	0.104	2
06149	Zinc	7440-66-6	77.5		0.584	3.13	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0294	J	0.0072	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.84	U	0.84	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.41	J	0.20	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.69		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.1		0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-016-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA8S-SS-0.0-0.5

LLI Sample # SW 6426115
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:17

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5906 SDG#: DE259-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLC026	10/17/2011 21:41	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/15/2011 14:25	Mark A Clark	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112830002A	10/12/2011 22:46	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/16/2011 22:45	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/18/2011 20:58	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112840037A	10/12/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112830002A	10/11/2011 07:45	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 08:55	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 08:55	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/13/2011 08:55	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112795708003	10/13/2011 08:55	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 08:55	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 08:55	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 08:55	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 08:55	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 08:55	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 08:55	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 08:55	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 08:55	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112915708001	10/19/2011 12:57	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 08:55	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 08:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 08:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 08:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 08:29	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-016-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8S-SS-0.0-0.5

LLI Sample # SW 6426115
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:17

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5906 SDG#: DE259-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 08:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 08:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 08:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 08:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 08:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 08:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 08:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 08:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 08:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 08:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 08:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 08:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 08:44	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112875708001	10/17/2011 11:09	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112915708001	10/18/2011 22:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11287621201A	10/15/2011 08:10	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201A	10/14/2011 14:54	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11284243201A	10/14/2011 15:30	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11287621201A	10/14/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201A	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401A	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401A	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SS-0.0-0.5

LLI Sample # SW 6426116
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 13:47

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5907 SDG#: DE259-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	18	360	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-017-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SS-0.0-0.5

LLI Sample # SW 6426116
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 13:47

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5907 SDG#: DE259-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	2.0		0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	0.46	J	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.7	1
10401	2,4-DB	94-82-6	0.67	U	0.67	1.8	1
10401	Dicamba	1918-00-9	0.45	J	0.43	1.3	1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8	1
10401	MCPA	94-74-6	82	U	82	270	1
10401	MCPP (Mecoprop)	93-65-2	200	U	200	270	1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18	1
10401	2,4,5-TP	93-72-1	0.081	U	0.081	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-017-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SS-0.0-0.5

LLI Sample # SW 6426116
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 13:47

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5907 SDG#: DE259-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	1.2	J	0.86	3.7	1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.37	1
01363	p,p-DDE	72-55-9	3.9		0.36	1.8	5
01363	p,p-DDT	50-29-3	4.6		0.36	1.8	5
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.071	U	0.071	0.37	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.19	U	0.19	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.37	1
01363	Endrin	72-20-8	0.071	U	0.071	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.37	U	0.37	0.37	1
01363	Endrin Ketone	53494-70-5	0.14	U	0.14	0.37	1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.078	U	0.078	0.18	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.36	U	0.36	0.37	1
01363	Toxaphene	8001-35-2	7.1	U	7.1	7.1	1

The sample was injected after maintenance and a new calibration.
Toxaphene in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.
The DCB surrogate recovery is outside the client sppecified QC limits at 132%.
The recovery is within our in-house statistical limits of 45-150%.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	2.3	J	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	1.5	J	0.36	1.8	1
10225	PCB-1254	11097-69-1	8.9		0.36	1.8	1
10225	PCB-1260	11096-82-5	6.4		0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,800		6.21	20.5	1
07914	Boron	7440-42-8	10.1		0.369	5.13	1
01650	Calcium	7440-70-2	11,400		2.57	20.5	1
01654	Iron	7439-89-6	25,800		2.68	20.5	1
01656	Lithium	7439-93-2	22.9		0.64	2.1	1
01657	Magnesium	7439-95-4	7,270		0.452	10.3	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-017-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SS-0.0-0.5

LLI Sample # SW 6426116
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 13:47

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5907 SDG#: DE259-07

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals		**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
06958	Manganese		7439-96-5	497		0.0369	0.513	1
10145	Phosphorus		7723-14-0	864		0.359	10.3	1
01662	Potassium		7440-09-7	6,270		11.6	51.3	1
01667	Sodium		7440-23-5	88.5	J	6.11	103	1
07968	Strontium		7440-24-6	27.8		0.0257	0.513	1
06969	Tin		7440-31-5	2.30	J	0.328	10.3	1
06970	Titanium		7440-32-6	1,210		0.0750	1.06	1
10146	Zirconium		7440-67-7	2.97	J	0.472	5.13	1
		SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony		7440-36-0	0.151	J	0.0790	0.213	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic		7440-38-2	5.77		0.0854	0.427	2
06126	Barium		7440-39-3	107		0.113	0.427	2
06127	Beryllium		7440-41-7	0.626		0.0171	0.107	2
06128	Cadmium		7440-43-9	0.398		0.0469	0.107	2
06131	Chromium		7440-47-3	26.3		0.128	0.427	2
06132	Cobalt		7440-48-4	9.05		0.0213	0.107	2
06133	Copper		7440-50-8	18.5		0.0854	0.427	2
06135	Lead		7439-92-1	19.2		0.0109	0.213	2
06138	Molybdenum		7439-98-7	0.570		0.0533	0.107	2
06139	Nickel		7440-02-0	17.4		0.107	0.427	2
06141	Selenium		7782-49-2	0.230	J	0.0619	0.427	2
06142	Silver		7440-22-4	0.0746	J	0.0152	0.107	2
06145	Thallium		7440-28-0	0.284		0.0320	0.107	2
06148	Vanadium		7440-62-2	44.7		0.0235	0.107	2
06149	Zinc		7440-66-6	83.1		0.597	3.20	2
		SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury		7439-97-6	0.0343	J	0.0072	0.102	1
Wet Chemistry		**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride		16984-48-8	0.93	J	0.87	1.1	1
		EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	9.7	U	9.7	32.3	1
		SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.21	U	0.21	1.0	1
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C		n.a.	7.56		0.0100	0.0100	1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-017-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SS-0.0-0.5

LLI Sample # SW 6426116
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 13:47

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5907 SDG#: DE259-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	7.2	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLC026	10/17/2011 22:07	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/17/2011 08:07	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112830002A	10/12/2011 23:13	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/17/2011 00:43	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/17/2011 00:57	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/18/2011 21:17	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112840037A	10/12/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112830002A	10/11/2011 07:45	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 08:59	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 08:59	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/13/2011 08:59	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112795708003	10/13/2011 08:59	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 08:59	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 08:59	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 08:59	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 08:59	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 08:59	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 08:59	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 08:59	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 08:59	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112915708001	10/19/2011 13:01	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 08:59	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 08:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 08:32	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-017-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SS-0.0-0.5

LLI Sample # SW 6426116
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 13:47

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5907 SDG#: DE259-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 08:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 08:32	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 08:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 08:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 08:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 08:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 08:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 08:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 08:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 08:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 08:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 08:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 08:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 08:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 08:46	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112875708001	10/17/2011 11:09	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112915708001	10/18/2011 22:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11287621201A	10/15/2011 08:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201A	10/14/2011 15:17	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11284243201A	10/14/2011 15:37	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11287621201A	10/14/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201A	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401A	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401A	10/12/2011 20:02	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-018-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SS-0.0-0.5

LLI Sample # SW 6426117
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:00

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5908 SDG#: DE259-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	21	J	17	340	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SS-0.0-0.5

LLI Sample # SW 6426117
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:00

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5908 SDG#: DE259-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.99	J	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.95	J	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	5.0		0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	1.6	J	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Fluoranthene	206-44-0	1.6	J	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.75	J	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.88	J	0.69	1.7	1
10138	Pyrene	129-00-0	0.91	J	0.69	1.7	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.6	U	4.6	9.3	1
10401	2,4-DB	94-82-6	0.64	U	0.64	1.8	1
10401	Dicamba	1918-00-9	0.41	U	0.41	1.2	1
10401	Dinoseb	88-85-7	0.83	U	0.83	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.83	U	0.83	1.8	1
10401	MCPA	94-74-6	300		79	260	1
10401	MCPP (Mecoprop)	93-65-2	78	U	78	260	1
10401	2,4,5-T	93-76-5	0.085	U	0.085	0.18	1
10401	2,4,5-TP	93-72-1	0.078	U	0.078	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	1.4	U	1.4	3.5	20

*=This limit was used in the evaluation of the final result

Sample Description: **SL-018-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SS-0.0-0.5

LLI Sample # SW 6426117
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:00

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5908 SDG#: DE259-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Alpha BHC	319-84-6	0.71	U	0.71	3.5	20
01363	Beta BHC	319-85-7	1.3	U	1.3	3.5	20
01363	Gamma BHC - Lindane	58-89-9	0.71	U	0.71	3.5	20
01363	Chlordane	57-74-9	51	U	51	71	20
01363	p,p-DDD	72-54-8	1.4	U	1.4	7.1	20
01363	p,p-DDE	72-55-9	59	U	59	59	20
01363	p,p-DDT	50-29-3	74	U	74	74	50
01363	Delta BHC	319-86-8	0.75	U	0.75	3.5	20
01363	Dieldrin	60-57-1	25	U	25	25	20
01363	Endosulfan I	959-98-8	0.92	U	0.92	3.5	20
01363	Endosulfan II	33213-65-9	12	U	12	12	20
01363	Endosulfan Sulfate	1031-07-8	1.4	U	1.4	7.1	20
01363	Endrin	72-20-8	8.1	U	8.1	8.1	20
01363	Endrin Aldehyde	7421-93-4	6.7	U	6.7	7.1	20
01363	Endrin Ketone	53494-70-5	1.4	U	1.4	7.1	20
01363	Heptachlor	76-44-8	1.3	U	1.3	3.5	20
01363	Heptachlor Epoxide	1024-57-3	9.6	U	9.6	9.6	20
01363	Methoxychlor	72-43-5	7.1	U	7.1	35	20
01363	Mirex	2385-85-5	1.4	U	1.4	7.1	20
01363	Toxaphene	8001-35-2	140	U	140	140	20

The sample was injected after maintenance and a new calibration.
Toxaphene in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
The DCB surrogate recovery is outside the client sppecified QC limits at 137%.
The recovery is within our in-house statistical limits of 45-150%.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	100	U	100	340	100
10225	Aroclor 5442	12642-23-8	100	U	100	340	100
10225	Aroclor 5460	11126-42-4	100	U	100	340	100
10225	PCB-1016	12674-11-2	34	U	34	180	100
10225	PCB-1221	11104-28-2	34	U	34	180	100
10225	PCB-1232	11141-16-5	34	U	34	180	100
10225	PCB-1242	53469-21-9	34	U	34	180	100
10225	PCB-1248	12672-29-6	500		34	180	100
10225	PCB-1254	11097-69-1	1,500		34	180	100
10225	PCB-1260	11096-82-5	220		41	180	100
10225	PCB-1262	37324-23-5	34	U	34	180	100
10225	PCB-1268	11100-14-4	34	U	34	180	100

Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,600		6.18	20.4	1
07914	Boron	7440-42-8	8.97		0.368	5.11	1
01650	Calcium	7440-70-2	20,800		2.56	20.4	1
01654	Iron	7439-89-6	30,100		13.3	102	5
01656	Lithium	7439-93-2	24.0		0.63	2.0	1
01657	Magnesium	7439-95-4	7,380		0.450	10.2	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SS-0.0-0.5

LLI Sample # SW 6426117
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:00

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5908 SDG#: DE259-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
06958	Manganese	7439-96-5	474		0.0368	0.511	1
10145	Phosphorus	7723-14-0	840		0.358	10.2	1
01662	Potassium	7440-09-7	6,280		11.6	51.1	1
01667	Sodium	7440-23-5	86.8	J	6.08	102	1
07968	Strontium	7440-24-6	37.8		0.0256	0.511	1
06969	Tin	7440-31-5	2.36	J	0.327	10.2	1
06970	Titanium	7440-32-6	1,200		0.0740	1.04	1
10146	Zirconium	7440-67-7	3.05	J	0.470	5.11	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.120	J	0.0764	0.206	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.24		0.0826	0.413	2
06126	Barium	7440-39-3	107		0.109	0.413	2
06127	Beryllium	7440-41-7	0.690		0.0165	0.103	2
06128	Cadmium	7440-43-9	0.402		0.0454	0.103	2
06131	Chromium	7440-47-3	30.0		0.124	0.413	2
06132	Cobalt	7440-48-4	9.73		0.0206	0.103	2
06133	Copper	7440-50-8	19.2		0.0826	0.413	2
06135	Lead	7439-92-1	13.4		0.0105	0.206	2
06138	Molybdenum	7439-98-7	0.504		0.0516	0.103	2
06139	Nickel	7440-02-0	19.3		0.103	0.413	2
06141	Selenium	7782-49-2	0.194	J	0.0599	0.413	2
06142	Silver	7440-22-4	0.0484	J	0.0147	0.103	2
06145	Thallium	7440-28-0	0.306		0.0310	0.103	2
06148	Vanadium	7440-62-2	51.0		0.0227	0.103	2
06149	Zinc	7440-66-6	73.9		0.578	3.10	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0123	J	0.0072	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.97	J	0.83	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.44		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-018-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SS-0.0-0.5

LLI Sample # SW 6426117
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:00

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5908 SDG#: DE259-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	4.1	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLC026	10/17/2011 22:32	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/17/2011 08:40	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112830002A	10/13/2011 01:03	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/17/2011 05:07	Melissa McDermott	50
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/17/2011 05:37	Melissa McDermott	20
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/19/2011 02:17	Jessica L Miller	100
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112840037A	10/12/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112830002A	10/11/2011 07:45	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 09:03	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 09:03	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/13/2011 09:03	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112795708003	10/14/2011 06:18	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 09:03	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 09:03	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 09:03	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 09:03	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 09:03	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 09:03	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 09:03	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 09:03	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112915708001	10/19/2011 13:06	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 09:03	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 08:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 08:35	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-018-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SS-0.0-0.5

LLI Sample # SW 6426117
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:00

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5908 SDG#: DE259-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 08:35	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 08:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 08:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 08:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 08:35	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 08:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 08:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 08:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 08:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 08:35	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 08:35	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 08:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 08:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 08:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 08:47	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112875708001	10/17/2011 11:09	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112915708001	10/18/2011 22:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11287621201A	10/15/2011 08:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201A	10/14/2011 15:40	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11284243201A	10/14/2011 16:06	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11287621201A	10/14/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201A	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401A	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401A	10/12/2011 20:02	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-019-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SS-0.0-0.5

LLI Sample # SW 6426118
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 10:40

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5909 SDG#: DE259-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Butylbenzylphthalate	85-68-7	210		17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	68	U	68	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	68	U	68	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	510	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-019-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SS-0.0-0.5

LLI Sample # SW 6426118
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 10:40

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5909 SDG#: DE259-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170	1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7	1
10138	Acenaphthylene	208-96-8	0.52	J	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	1.2	J	0.68	1.7	1
10138	Benzo(a)pyrene	50-32-8	1.6	J	0.68	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	5.8		0.68	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.84	J	0.68	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.68	U	0.68	1.7	1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18	1
10138	Chrysene	218-01-9	3.9		0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7	1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18	1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	51		6.1	18	1
10138	Fluoranthene	206-44-0	3.0		0.68	1.7	1
10138	Fluorene	86-73-7	1.1	J	0.68	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7	1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18	1
10138	Phenanthrene	85-01-8	0.81	J	0.68	1.7	1
10138	Pyrene	129-00-0	1.3	J	0.68	1.7	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 12 ug/kg. The blank value was not subtracted from the analytical result.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.2	U	1.2	3.7	1
10401	Dalapon	75-99-0	4.5	U	4.5	9.2	1
10401	2,4-DB	94-82-6	4.0		0.63	1.7	1
10401	Dicamba	1918-00-9	0.61	J	0.41	1.2	1
10401	Dinoseb	88-85-7	0.82	U	0.82	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.82	U	0.82	1.7	1
10401	MCPA	94-74-6	190	U	190	260	1
10401	MCPP (Mecoprop)	93-65-2	77	U	77	260	1
10401	2,4,5-T	93-76-5	0.084	U	0.084	0.17	1
10401	2,4,5-TP	93-72-1	0.077	U	0.077	0.17	1

The recovery for Dinoseb is outside the QC limits. However, this compound does

*=This limit was used in the evaluation of the final result

Sample Description: **SL-019-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SS-0.0-0.5

LLI Sample # SW 6426118
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 10:40

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5909 SDG#: DE259-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.067	U	0.067	0.17	1
01363	Alpha BHC	319-84-6	0.035	U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.061	U	0.061	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035	U	0.035	0.17	1
01363	Chlordane	57-74-9	2.7	J	0.82	3.5	1
01363	p,p-DDD	72-54-8	0.067	U	0.067	0.35	1
01363	p,p-DDE	72-55-9	1.6		0.067	0.35	1
01363	p,p-DDT	50-29-3	2.0		0.067	0.35	1
01363	Delta BHC	319-86-8	1.3	U	1.3	1.3	1
01363	Dieldrin	60-57-1	0.21	U	0.21	0.35	1
01363	Endosulfan I	959-98-8	0.27	U	0.27	0.27	1
01363	Endosulfan II	33213-65-9	0.067	U	0.067	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.67	U	0.67	3.5	10
01363	Endrin	72-20-8	0.18	U	0.18	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.99	U	0.99	0.99	1
01363	Endrin Ketone	53494-70-5	0.33	U	0.33	0.35	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.12	U	0.12	0.17	1
01363	Methoxychlor	72-43-5	1.2	U	1.2	1.7	1
01363	Mirex	2385-85-5	0.26	U	0.26	0.35	1
01363	Toxaphene	8001-35-2	20	U	20	20	1
	The sample was injected after maintenance and a new calibration. Toxaphene in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. The DCB surrogate recovery is outside the client sppecified QC limits at 129%. The recovery is within our in-house statistical limits of 45-150%. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7	1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,200		5.95	19.7	1
07914	Boron	7440-42-8	1.70	J	0.354	4.92	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-019-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SS-0.0-0.5

LLI Sample # SW 6426118
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 10:40

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5909 SDG#: DE259-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01650	Calcium	7440-70-2	3,480		2.46	19.7	1
01654	Iron	7439-89-6	19,800		2.57	19.7	1
01656	Lithium	7439-93-2	24.2		0.61	2.0	1
01657	Magnesium	7439-95-4	4,070		0.433	9.83	1
06958	Manganese	7439-96-5	272		0.0354	0.492	1
10145	Phosphorus	7723-14-0	348		0.344	9.83	1
01662	Potassium	7440-09-7	3,000		11.1	49.2	1
01667	Sodium	7440-23-5	57.7	J	5.85	98.3	1
07968	Strontium	7440-24-6	8.34		0.0246	0.492	1
06969	Tin	7440-31-5	2.50	J	0.315	9.83	1
06970	Titanium	7440-32-6	1,020		0.0719	1.01	1
10146	Zirconium	7440-67-7	1.50	J	0.452	4.92	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0723	J	0.0721	0.195	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.79		0.0779	0.390	2
06126	Barium	7440-39-3	74.6		0.103	0.390	2
06127	Beryllium	7440-41-7	0.476		0.0156	0.0974	2
06128	Cadmium	7440-43-9	0.153		0.0428	0.0974	2
06131	Chromium	7440-47-3	14.3		0.117	0.390	2
06132	Cobalt	7440-48-4	5.64		0.0195	0.0974	2
06133	Copper	7440-50-8	7.44		0.0779	0.390	2
06135	Lead	7439-92-1	8.31		0.0099	0.195	2
06138	Molybdenum	7439-98-7	0.459		0.0487	0.0974	2
06139	Nickel	7440-02-0	9.48		0.0974	0.390	2
06141	Selenium	7782-49-2	0.125	J	0.0565	0.390	2
06142	Silver	7440-22-4	0.0234	J	0.0138	0.0974	2
06145	Thallium	7440-28-0	0.254		0.0292	0.0974	2
06148	Vanadium	7440-62-2	30.6		0.0214	0.0974	2
06149	Zinc	7440-66-6	55.7		0.545	2.92	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0098	J	0.0072	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.81	U	0.81	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.7	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.41	J	0.21	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-019-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SS-0.0-0.5

LLI Sample # SW 6426118
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 10:40

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5909 SDG#: DE259-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	6.52	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	2.2	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLC026	10/17/2011 22:57	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/17/2011 09:13	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112830002A	10/13/2011 01:31	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/17/2011 02:41	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/17/2011 02:55	Melissa McDermott	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/18/2011 21:35	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112840037A	10/12/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112830002A	10/11/2011 07:45	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 09:08	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 09:08	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/13/2011 09:08	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112795708003	10/13/2011 09:08	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 09:08	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 09:08	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 09:08	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 09:08	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 09:08	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 09:08	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 09:08	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 09:08	Joanne M Gates	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-019-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-019-SA8S-SS-0.0-0.5

LLI Sample # SW 6426118
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 10:40

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5909 SDG#: DE259-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112915708001	10/19/2011 13:10	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 09:08	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 08:38	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 08:38	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 08:38	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 08:38	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 08:38	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 08:38	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 08:38	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 08:38	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 08:38	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 08:38	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 08:38	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 08:38	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 08:38	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 08:38	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 08:38	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 08:38	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 08:48	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112875708001	10/17/2011 11:09	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112915708001	10/18/2011 22:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11287621201A	10/15/2011 08:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201A	10/14/2011 16:03	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11284243201A	10/14/2011 16:20	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11287621201A	10/14/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201A	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401A	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401A	10/12/2011 20:02	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-020-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SS-0.0-0.5

LLI Sample # SW 6426119
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:13

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5910 SDG#: DE259-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Butylbenzylphthalate	85-68-7	220		18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	J	18	360	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-020-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SS-0.0-0.5

LLI Sample # SW 6426119
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:13

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5910 SDG#: DE259-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.75	J	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	1.2	J	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.3	J	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	3.3		0.71	1.8	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	1.6	J	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Fluoranthene	206-44-0	1.5	J	0.71	1.8	1
10138	Fluorene	86-73-7	0.74	J	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	J	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.9	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.8	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.86	U	0.86	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U	0.86	1.8	1
10401	MCPA	94-74-6	81	U	81	270	1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270	1
10401	2,4,5-T	93-76-5	0.088	U	0.088	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

*=This limit was used in the evaluation of the final result

Sample Description: SL-020-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SS-0.0-0.5

LLI Sample # SW 6426119
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:13

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5910 SDG#: DE259-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18	1
01363	Chlordane	57-74-9	0.86	U	0.86	3.6	1
01363	p,p-DDD	72-54-8	0.071	U	0.071	0.36	1
01363	p,p-DDE	72-55-9	1.0		0.071	0.36	1
01363	p,p-DDT	50-29-3	1.1		0.071	0.36	1
01363	Delta BHC	319-86-8	0.72		0.039	0.18	1
01363	Dieldrin	60-57-1	0.13	U	0.13	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.36	1
01363	Endrin	72-20-8	0.071	U	0.071	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.40	U	0.40	0.40	1
01363	Endrin Ketone	53494-70-5	0.35	U	0.35	0.36	1
01363	Heptachlor	76-44-8	0.064	U	0.064	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.036	U	0.036	0.18	1
01363	Methoxychlor	72-43-5	0.74	U	0.74	1.8	1
01363	Mirex	2385-85-5	0.35	U	0.35	0.36	1
01363	Toxaphene	8001-35-2	5.5	U	5.5	7.1	1

The sample was injected after maintenance and a new calibration.
Toxaphene in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	2.4	J	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	1.2	J	0.35	1.8	1
10225	PCB-1260	11096-82-5	2.2		0.42	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,400		6.30	20.8	1
07914	Boron	7440-42-8	9.51		0.375	5.21	1
01650	Calcium	7440-70-2	109,000		13.0	104	5
01654	Iron	7439-89-6	27,100		2.72	20.8	1
01656	Lithium	7439-93-2	20.6		0.65	2.1	1
01657	Magnesium	7439-95-4	7,010		0.458	10.4	1
06958	Manganese	7439-96-5	395		0.0375	0.521	1
10145	Phosphorus	7723-14-0	544		0.365	10.4	1
01662	Potassium	7440-09-7	5,050		11.8	52.1	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-020-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SS-0.0-0.5

LLI Sample # SW 6426119
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:13

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5910 SDG#: DE259-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01667	Sodium	7440-23-5	115		6.20	104	1
07968	Strontium	7440-24-6	135		0.0260	0.521	1
06969	Tin	7440-31-5	2.04	J	0.333	10.4	1
06970	Titanium	7440-32-6	1,010		0.0747	1.05	1
10146	Zirconium	7440-67-7	3.21	J	0.479	5.21	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.182	J	0.0771	0.208	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.97		0.0833	0.417	2
06126	Barium	7440-39-3	79.5		0.110	0.417	2
06127	Beryllium	7440-41-7	0.581		0.0167	0.104	2
06128	Cadmium	7440-43-9	0.346		0.0458	0.104	2
06131	Chromium	7440-47-3	27.1		0.125	0.417	2
06132	Cobalt	7440-48-4	8.63		0.0208	0.104	2
06133	Copper	7440-50-8	18.0		0.0833	0.417	2
06135	Lead	7439-92-1	23.0		0.0106	0.208	2
06138	Molybdenum	7439-98-7	0.427		0.0521	0.104	2
06139	Nickel	7440-02-0	16.5		0.104	0.417	2
06141	Selenium	7782-49-2	0.235	J	0.0604	0.417	2
06142	Silver	7440-22-4	0.0311	J	0.0148	0.104	2
06145	Thallium	7440-28-0	0.273		0.0313	0.104	2
06148	Vanadium	7440-62-2	44.8		0.0229	0.104	2
06149	Zinc	7440-66-6	63.1		0.583	3.13	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0160	J	0.0073	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.84	U	0.84	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.73	J	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.29		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.8		0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-020-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SS-0.0-0.5

LLI Sample # SW 6426119
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:13

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5910 SDG#: DE259-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLC026	10/17/2011 23:22	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/17/2011 09:46	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112830002A	10/13/2011 01:58	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/16/2011 23:00	Melissa McDermott	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/18/2011 21:54	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112840037A	10/12/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112830002A	10/11/2011 07:45	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 09:12	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 09:12	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/14/2011 06:25	Tara L Snyder	5
01654	Iron	SW-846 6010B	1	112795708003	10/13/2011 09:12	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 09:12	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 09:12	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 09:12	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 09:12	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 09:12	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 09:12	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 09:12	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 09:12	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112915708001	10/19/2011 13:14	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 09:12	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 08:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 08:41	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 08:41	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 08:41	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-020-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA8S-SS-0.0-0.5

LLI Sample # SW 6426119
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:13

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5910 SDG#: DE259-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 08:41	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 08:41	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 08:41	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 08:41	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 08:41	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 08:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 08:41	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 08:41	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 08:41	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 08:41	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 08:41	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 08:41	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 08:49	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112875708001	10/17/2011 11:09	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112915708001	10/18/2011 22:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11287621201A	10/15/2011 08:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201A	10/14/2011 16:27	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11284243201A	10/14/2011 16:35	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11287621201A	10/14/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201A	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401B	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-021-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SS-0.0-0.5

LLI Sample # SW 6426120
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:30

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5911 SDG#: DE259-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-021-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SS-0.0-0.5

LLI Sample # SW 6426120
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:30

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5911 SDG#: DE259-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	5.5		0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	19		0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	7.6		0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	8.1		0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.3	J	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	33		0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	220		64	190	10
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	16		0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	2.2		0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	300		6.4	19	1
10138	Fluoranthene	206-44-0	14		0.71	1.8	1
10138	Fluorene	86-73-7	5.2		0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.84	J	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	1.0	J	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	3.1		0.71	1.8	1
10138	Pyrene	129-00-0	6.8		0.71	1.8	1

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 12 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.8	1
10401	Dicamba	1918-00-9	0.43	U	0.43	1.3	1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.6	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8	1
10401	MCPA	94-74-6	81	U	81	270	1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270	1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does

*=This limit was used in the evaluation of the final result

Sample Description: **SL-021-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SS-0.0-0.5

LLI Sample # SW 6426120
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:30

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5911 SDG#: DE259-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.						
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.071	U	0.071	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18	1
01363	Chlordane	57-74-9	3.7		0.86	3.6	1
01363	p,p-DDD	72-54-8	0.29	U	0.29	0.36	1
01363	p,p-DDE	72-55-9	1.4		0.071	0.36	1
01363	p,p-DDT	50-29-3	1.0		0.071	0.36	1
01363	Delta BHC	319-86-8	1.7		0.19	0.89	5
01363	Dieldrin	60-57-1	0.14	U	0.14	0.36	1
01363	Endosulfan I	959-98-8	0.047	U	0.047	0.18	1
01363	Endosulfan II	33213-65-9	0.071	U	0.071	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.071	U	0.071	0.36	1
01363	Endrin	72-20-8	0.071	U	0.071	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.69	U	0.69	0.69	1
01363	Endrin Ketone	53494-70-5	0.071	U	0.071	0.36	1
01363	Heptachlor	76-44-8	0.13	U	0.13	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.058	U	0.058	0.18	1
01363	Methoxychlor	72-43-5	0.93	U	0.93	1.8	1
01363	Mirex	2385-85-5	0.40	U	0.40	0.40	1
01363	Toxaphene	8001-35-2	15	U	15	15	1
	The sample was injected after maintenance and a new calibration. Toxaphene in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	25,600		6.41	21.2	1
07914	Boron	7440-42-8	10.4		0.382	5.30	1
01650	Calcium	7440-70-2	48,700		2.65	21.2	1
01654	Iron	7439-89-6	31,400		13.8	106	5
01656	Lithium	7439-93-2	23.9		0.66	2.1	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-021-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SS-0.0-0.5

LLI Sample # SW 6426120
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:30

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5911 SDG#: DE259-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	7,600		0.466	10.6	1
06958	Manganese	7439-96-5	375		0.0382	0.530	1
10145	Phosphorus	7723-14-0	706		0.371	10.6	1
01662	Potassium	7440-09-7	5,560		12.0	53.0	1
01667	Sodium	7440-23-5	95.7	J	6.31	106	1
07968	Strontium	7440-24-6	58.9		0.0265	0.530	1
06969	Tin	7440-31-5	2.23	J	0.339	10.6	1
06970	Titanium	7440-32-6	1,100		0.0753	1.06	1
10146	Zirconium	7440-67-7	3.92	J	0.488	5.30	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.105	J	0.0777	0.210	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.44		0.0840	0.420	2
06126	Barium	7440-39-3	88.1		0.111	0.420	2
06127	Beryllium	7440-41-7	0.562		0.0168	0.105	2
06128	Cadmium	7440-43-9	0.357		0.0462	0.105	2
06131	Chromium	7440-47-3	31.0		0.126	0.420	2
06132	Cobalt	7440-48-4	7.51		0.0210	0.105	2
06133	Copper	7440-50-8	15.9		0.0840	0.420	2
06135	Lead	7439-92-1	12.8		0.0107	0.210	2
06138	Molybdenum	7439-98-7	0.383		0.0525	0.105	2
06139	Nickel	7440-02-0	16.2		0.105	0.420	2
06141	Selenium	7782-49-2	0.201	J	0.0609	0.420	2
06142	Silver	7440-22-4	0.0342	J	0.0149	0.105	2
06145	Thallium	7440-28-0	0.262		0.0315	0.105	2
06148	Vanadium	7440-62-2	51.1		0.0231	0.105	2
06149	Zinc	7440-66-6	61.2		0.588	3.15	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0199	J	0.0073	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.87	U	0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.77	J	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.61		0.0100	0.0100	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-021-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SS-0.0-0.5

LLI Sample # SW 6426120
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:30

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5911 SDG#: DE259-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	6.6	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLC026	10/17/2011 23:47	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/17/2011 10:19	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/18/2011 08:36	Joseph M Gambler	10
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112830002A	10/13/2011 02:26	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/17/2011 03:10	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/17/2011 03:25	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/18/2011 22:13	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112840037A	10/12/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112830002A	10/11/2011 07:45	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 09:16	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 09:16	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/13/2011 09:16	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112795708003	10/14/2011 06:44	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 09:16	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 09:16	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 09:16	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 09:16	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 09:16	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 09:16	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 09:16	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 09:16	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112915708001	10/19/2011 13:19	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 09:16	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 08:44	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-021-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-021-SA8S-SS-0.0-0.5

LLI Sample # SW 6426120
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 11:30

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5911 SDG#: DE259-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 08:44	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 08:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 08:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 08:44	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 08:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 08:44	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 08:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 08:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 08:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 08:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 08:44	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 08:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 08:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 08:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 08:44	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 08:50	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112875708001	10/17/2011 11:09	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112915708001	10/18/2011 22:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11287621201B	10/15/2011 09:11	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201B	10/14/2011 16:50	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11284243201A	10/14/2011 16:56	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11287621201B	10/14/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201B	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401B	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

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Analysis Report

Sample Description: SL-022-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SS-0.0-0.5

LLI Sample # SW 6426121
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:05

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5912 SDG#: DE259-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Butylbenzylphthalate	85-68-7	210		18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-022-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SS-0.0-0.5

LLI Sample # SW 6426121
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:05

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5912 SDG#: DE259-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	1.4	J	0.70	1.8	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	0.51	J	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.5	J	6.3	19	1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.8	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.8	1
10138	Pyrene	129-00-0	0.70	U	0.70	1.8	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 12 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.5	1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8	1
10401	MCPA	94-74-6	81	U	81	270	1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270	1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Sample Description: **SL-022-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SS-0.0-0.5

LLI Sample # SW 6426121
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:05

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5912 SDG#: DE259-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.070	U	0.070	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.064	U	0.064	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.078	U	0.078	0.18	1
01363	Chlordane	57-74-9	3.6	J	0.85	3.6	1
01363	p,p-DDD	72-54-8	0.070	U	0.070	0.36	1
01363	p,p-DDE	72-55-9	2.0		0.070	0.36	1
01363	p,p-DDT	50-29-3	1.9		0.070	0.36	1
01363	Delta BHC	319-86-8	1.2	U	1.2	1.2	5
01363	Dieldrin	60-57-1	0.33	U	0.33	0.36	1
01363	Endosulfan I	959-98-8	0.095	U	0.095	0.18	1
01363	Endosulfan II	33213-65-9	0.070	U	0.070	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.36	1
01363	Endrin	72-20-8	0.14	U	0.14	0.36	1
01363	Endrin Aldehyde	7421-93-4	2.2	U	2.2	2.2	1
01363	Endrin Ketone	53494-70-5	0.34	U	0.34	0.34	1
01363	Heptachlor	76-44-8	0.091	U	0.091	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.18	U	0.18	0.18	1
01363	Methoxychlor	72-43-5	2.1	U	2.1	2.1	1
01363	Mirex	2385-85-5	0.51	U	0.51	0.51	1
01363	Toxaphene	8001-35-2	42	U	42	42	1

The sample was injected after maintenance and a new calibration.
Toxaphene in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	1.3	J	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

Metals	**SW-846 6010B**	**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,600	6.29	20.8	1
07914	Boron	7440-42-8	7.64	0.374	5.20	1
01650	Calcium	7440-70-2	100,000	13.0	104	5
01654	Iron	7439-89-6	23,300	2.71	20.8	1
01656	Lithium	7439-93-2	22.4	0.64	2.1	1
01657	Magnesium	7439-95-4	6,650	0.457	10.4	1
06958	Manganese	7439-96-5	285	0.0374	0.520	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-022-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SS-0.0-0.5

LLI Sample # SW 6426121
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:05

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5912 SDG#: DE259-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	489		0.364	10.4	1
01662	Potassium	7440-09-7	4,270		11.7	52.0	1
01667	Sodium	7440-23-5	112		6.19	104	1
07968	Strontium	7440-24-6	138		0.0260	0.520	1
06969	Tin	7440-31-5	2.07	J	0.333	10.4	1
06970	Titanium	7440-32-6	1,020		0.0745	1.05	1
10146	Zirconium	7440-67-7	4.98	J	0.478	5.20	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.120	J	0.0785	0.212	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.00		0.0848	0.424	2
06126	Barium	7440-39-3	73.7		0.112	0.424	2
06127	Beryllium	7440-41-7	0.547		0.0170	0.106	2
06128	Cadmium	7440-43-9	0.324		0.0467	0.106	2
06131	Chromium	7440-47-3	34.0		0.127	0.424	2
06132	Cobalt	7440-48-4	7.64		0.0212	0.106	2
06133	Copper	7440-50-8	14.8		0.0848	0.424	2
06135	Lead	7439-92-1	11.9		0.0108	0.212	2
06138	Molybdenum	7439-98-7	0.311		0.0530	0.106	2
06139	Nickel	7440-02-0	15.2		0.106	0.424	2
06141	Selenium	7782-49-2	0.249	J	0.0615	0.424	2
06142	Silver	7440-22-4	0.0264	J	0.0151	0.106	2
06145	Thallium	7440-28-0	0.243		0.0318	0.106	2
06148	Vanadium	7440-62-2	53.2		0.0233	0.106	2
06149	Zinc	7440-66-6	58.8		0.594	3.18	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0281	J	0.0071	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.0	J	0.84	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.82	J	0.21	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.64		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.7		0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-022-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SS-0.0-0.5

LLI Sample # SW 6426121
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:05

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5912 SDG#: DE259-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLC026	10/18/2011 00:12	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/17/2011 10:52	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112830002A	10/13/2011 02:53	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/17/2011 03:39	Melissa McDermott	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/17/2011 03:54	Melissa McDermott	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/18/2011 22:32	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112840037A	10/12/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112830002A	10/11/2011 07:45	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 09:21	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 09:21	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/14/2011 06:52	Tara L Snyder	5
01654	Iron	SW-846 6010B	1	112795708003	10/13/2011 09:21	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 09:21	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 09:21	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 09:21	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 09:21	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 09:21	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 09:21	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 09:21	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 09:21	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112915708001	10/19/2011 13:23	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 09:21	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 08:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 08:47	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 08:47	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-022-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SS-0.0-0.5

LLI Sample # SW 6426121
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:05

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5912 SDG#: DE259-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 08:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 08:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 08:47	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 08:47	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 08:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 08:47	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 08:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 08:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 08:47	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 08:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 08:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 08:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 08:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 08:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112875708001	10/17/2011 11:09	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112915708001	10/18/2011 22:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11287621201B	10/15/2011 10:24	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201B	10/14/2011 18:22	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11284243201A	10/14/2011 17:03	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11287621201B	10/14/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201B	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401B	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

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Analysis Report

Sample Description: SL-023-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SS-0.0-0.5

LLI Sample # SW 6426122
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:45

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5913 SDG#: DE259-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Butylbenzylphthalate	85-68-7	260		18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-023-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SS-0.0-0.5

LLI Sample # SW 6426122
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:45

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5913 SDG#: DE259-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	1.6	J	0.71	1.8	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.3	U	6.3	19	1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8	1
Herbicides	**SW-846 8151A**		**ug/kg**		**ug/kg**	**ug/kg**	
10401	2,4-D	94-75-7	1.3	U	1.3	3.8	1
10401	Dalapon	75-99-0	4.7	U	4.7	9.6	1
10401	2,4-DB	94-82-6	0.66	U	0.66	1.8	1
10401	Dicamba	1918-00-9	0.42	U	0.42	1.3	1
10401	Dinoseb	88-85-7	0.85	U	0.85	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U	0.85	1.8	1
10401	MCPA	94-74-6	81	U	81	270	1
10401	MCPP (Mecoprop)	93-65-2	80	U	80	270	1
10401	2,4,5-T	93-76-5	0.087	U	0.087	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U	0.080	0.18	1
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Aldrin	309-00-2	0.70	U	0.70	1.8	10
01363	Alpha BHC	319-84-6	0.36	U	0.36	1.8	10

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-023-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SS-0.0-0.5

LLI Sample # SW 6426122
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:45

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5913 SDG#: DE259-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/kg**		**ug/kg**	**ug/kg**	
01363	Beta BHC	319-85-7	0.64	U	0.64	1.8	10
01363	Gamma BHC - Lindane	58-89-9	0.36	U	0.36	1.8	10
01363	Chlordane	57-74-9	8.5	U	8.5	36	10
01363	p,p-DDD	72-54-8	0.70	U	0.70	3.6	10
01363	p,p-DDE	72-55-9	4.3		0.70	3.6	10
01363	p,p-DDT	50-29-3	3.0	J	0.70	3.6	10
01363	Delta BHC	319-86-8	12		0.38	1.8	10
01363	Dieldrin	60-57-1	0.70	U	0.70	3.6	10
01363	Endosulfan I	959-98-8	0.47	U	0.47	1.8	10
01363	Endosulfan II	33213-65-9	0.70	U	0.70	3.6	10
01363	Endosulfan Sulfate	1031-07-8	0.70	U	0.70	3.6	10
01363	Endrin	72-20-8	2.3	U	2.3	3.6	10
01363	Endrin Aldehyde	7421-93-4	3.7	U	3.7	3.7	10
01363	Endrin Ketone	53494-70-5	0.70	U	0.70	3.6	10
01363	Heptachlor	76-44-8	0.64	U	0.64	1.8	10
01363	Heptachlor Epoxide	1024-57-3	0.40	J	0.36	1.8	10
01363	Methoxychlor	72-43-5	6.4	U	6.4	18	10
01363	Mirex	2385-85-5	0.70	U	0.70	3.6	10
01363	Toxaphene	8001-35-2	45	U	45	70	10

The sample was injected after maintenance and a new calibration.
Toxaphene in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.
Reporting limits were raised due to interference from the sample matrix.

Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,800	6.18	20.4	1
07914	Boron	7440-42-8	10.6	0.367	5.10	1
01650	Calcium	7440-70-2	95,500	12.8	102	5
01654	Iron	7439-89-6	25,200	2.66	20.4	1
01656	Lithium	7439-93-2	23.1	0.63	2.0	1
01657	Magnesium	7439-95-4	7,060	0.449	10.2	1
06958	Manganese	7439-96-5	347	0.0367	0.510	1
10145	Phosphorus	7723-14-0	642	0.357	10.2	1
01662	Potassium	7440-09-7	5,120	11.5	51.0	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-023-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SS-0.0-0.5

LLI Sample # SW 6426122
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:45

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5913 SDG#: DE259-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01667	Sodium	7440-23-5	94.3	J	6.07	102	1
07968	Strontium	7440-24-6	96.3		0.0255	0.510	1
06969	Tin	7440-31-5	1.84	J	0.327	10.2	1
06970	Titanium	7440-32-6	1,200		0.0746	1.05	1
10146	Zirconium	7440-67-7	2.23	J	0.470	5.10	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.134	J	0.0763	0.206	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.80		0.0825	0.412	2
06126	Barium	7440-39-3	87.5		0.109	0.412	2
06127	Beryllium	7440-41-7	0.617		0.0165	0.103	2
06128	Cadmium	7440-43-9	0.384		0.0453	0.103	2
06131	Chromium	7440-47-3	31.4		0.124	0.412	2
06132	Cobalt	7440-48-4	8.67		0.0206	0.103	2
06133	Copper	7440-50-8	15.8		0.0825	0.412	2
06135	Lead	7439-92-1	16.7		0.0105	0.206	2
06138	Molybdenum	7439-98-7	0.399		0.0515	0.103	2
06139	Nickel	7440-02-0	17.5		0.103	0.412	2
06141	Selenium	7782-49-2	0.266	J	0.0598	0.412	2
06142	Silver	7440-22-4	0.0485	J	0.0146	0.103	2
06145	Thallium	7440-28-0	0.289		0.0309	0.103	2
06148	Vanadium	7440-62-2	53.8		0.0227	0.103	2
06149	Zinc	7440-66-6	62.8		0.577	3.09	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0248	J	0.0074	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.92	J	0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	31.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.34	J	0.20	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.59		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.8		0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-023-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SS-0.0-0.5

LLI Sample # SW 6426122
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:45

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5913 SDG#: DE259-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLC026	10/18/2011 00:38	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/17/2011 11:24	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	112830002A	10/13/2011 03:21	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	112840037A	10/17/2011 05:52	Melissa McDermott	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/18/2011 22:50	Jessica L Miller	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	112840037A	10/12/2011 12:00	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	112830002A	10/11/2011 07:45	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 09:33	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 09:33	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/14/2011 07:00	Tara L Snyder	5
01654	Iron	SW-846 6010B	1	112795708003	10/13/2011 09:33	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 09:33	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 09:33	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 09:33	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 09:33	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 09:33	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 09:33	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 09:33	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 09:33	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112915708001	10/19/2011 13:28	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 09:33	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 08:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 08:59	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 08:59	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 08:59	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-023-SA8S-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SS-0.0-0.5

LLI Sample # SW 6426122
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:45

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5913 SDG#: DE259-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 08:59	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 08:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 08:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 08:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 08:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 08:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 08:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 08:59	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 08:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 08:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 08:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 08:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 08:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112875708001	10/17/2011 11:09	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112915708001	10/18/2011 22:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11287621201B	10/15/2011 10:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201B	10/14/2011 18:45	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11284243201A	10/14/2011 17:25	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11287621201B	10/14/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201B	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401B	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

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Analysis Report

Sample Description: SL-084-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA7-SB-0.0-1.0

LLI Sample # SW 6426123
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:05

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5914 SDG#: DE259-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-084-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-084-SA7-SB-0.0-1.0

LLI Sample # SW 6426123
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:05

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5914 SDG#: DE259-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.2	U	6.2	19	1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.65	J	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-084-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-084-SA7-SB-0.0-1.0

LLI Sample # SW 6426123
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:05

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5914 SDG#: DE259-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,200		5.98	19.8	1
07914	Boron	7440-42-8	0.356	U	0.356	4.94	1
01650	Calcium	7440-70-2	6,950		2.47	19.8	1
01654	Iron	7439-89-6	28,700		12.9	98.8	5
01656	Lithium	7439-93-2	36.1		0.61	2.0	1
01657	Magnesium	7439-95-4	7,430		0.435	9.88	1
06958	Manganese	7439-96-5	509		0.0356	0.494	1
10145	Phosphorus	7723-14-0	521		0.346	9.88	1
01662	Potassium	7440-09-7	2,800		11.2	49.4	1
01667	Sodium	7440-23-5	121		5.88	98.8	1
07968	Strontium	7440-24-6	9.98		0.0247	0.494	1
06969	Tin	7440-31-5	2.50	J	0.316	9.88	1
06970	Titanium	7440-32-6	1,420		0.0715	1.01	1
10146	Zirconium	7440-67-7	1.00	J	0.454	4.94	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0841	J	0.0753	0.203	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.46		0.0814	0.407	2
06126	Barium	7440-39-3	135		0.108	0.407	2
06127	Beryllium	7440-41-7	0.815		0.0163	0.102	2
06128	Cadmium	7440-43-9	0.190		0.0447	0.102	2
06131	Chromium	7440-47-3	41.6		0.122	0.407	2
06132	Cobalt	7440-48-4	10.3		0.0203	0.102	2
06133	Copper	7440-50-8	15.9		0.0814	0.407	2
06135	Lead	7439-92-1	6.89		0.0104	0.203	2
06138	Molybdenum	7439-98-7	0.626		0.0509	0.102	2
06139	Nickel	7440-02-0	29.2		0.102	0.407	2
06141	Selenium	7782-49-2	0.149	J	0.0590	0.407	2
06142	Silver	7440-22-4	0.0736	J	0.0144	0.102	2
06145	Thallium	7440-28-0	0.346		0.0305	0.102	2
06148	Vanadium	7440-62-2	58.8		0.0224	0.102	2
06149	Zinc	7440-66-6	77.0		0.570	3.05	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	U	0.0071	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.84	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.20	1.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-084-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-084-SA7-SB-0.0-1.0

LLI Sample # SW 6426123
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:05

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5914 SDG#: DE259-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.79	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	3.6	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11284SLC026	10/18/2011 01:03	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/17/2011 11:58	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/18/2011 23:09	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 09:38	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 09:38	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/13/2011 09:38	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112795708003	10/14/2011 07:07	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 09:38	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 09:38	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 09:38	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 09:38	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 09:38	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 09:38	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 09:38	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 09:38	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112915708001	10/19/2011 13:32	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 09:38	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 09:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 09:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 09:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 09:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 09:04	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-084-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-084-SA7-SB-0.0-1.0

LLI Sample # SW 6426123
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:05

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5914 SDG#: DE259-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 09:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 09:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 09:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 09:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 09:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 09:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 09:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 09:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 09:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 09:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 09:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 08:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112875708001	10/17/2011 11:09	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112915708001	10/18/2011 22:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11287621201B	10/15/2011 10:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201B	10/14/2011 19:08	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11284243201A	10/14/2011 17:40	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11287621201B	10/14/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201B	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401B	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

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Analysis Report

Sample Description: SL-113-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA7-SB-0.0-1.0

LLI Sample # SW 6426124
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:06

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5915 SDG#: DE259-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-113-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA7-SB-0.0-1.0

LLI Sample # SW 6426124
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:06

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5915 SDG#: DE259-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	190	U	190	190	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-113-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA7-SB-0.0-1.0

LLI Sample # SW 6426124
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:06

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5915 SDG#: DE259-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,000	6.68	22.1	1
07914	Boron	7440-42-8	0.397 U	0.397	5.52	1
01650	Calcium	7440-70-2	6,810	2.76	22.1	1
01654	Iron	7439-89-6	49,400	14.4	110	5
01656	Lithium	7439-93-2	52.2	0.68	2.2	1
01657	Magnesium	7439-95-4	11,300	0.486	11.0	1
06958	Manganese	7439-96-5	444	0.0397	0.552	1
10145	Phosphorus	7723-14-0	914	0.386	11.0	1
01662	Potassium	7440-09-7	2,610	12.5	55.2	1
01667	Sodium	7440-23-5	834	6.57	110	1
07968	Strontium	7440-24-6	31.7	0.0276	0.552	1
06969	Tin	7440-31-5	3.10 J	0.353	11.0	1
06970	Titanium	7440-32-6	1,430	0.0784	1.10	1
10146	Zirconium	7440-67-7	0.508 U	0.508	5.52	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.214 J	0.0817	0.221	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	13.8	0.0883	0.442	2
06126	Barium	7440-39-3	298	0.293	1.10	5
06127	Beryllium	7440-41-7	1.64	0.0442	0.276	5
06128	Cadmium	7440-43-9	0.420	0.0486	0.110	2
06131	Chromium	7440-47-3	53.2	0.132	0.442	2
06132	Cobalt	7440-48-4	20.1	0.0221	0.110	2
06133	Copper	7440-50-8	45.8	0.0883	0.442	2
06135	Lead	7439-92-1	18.7	0.0113	0.221	2
06138	Molybdenum	7439-98-7	0.714	0.0552	0.110	2
06139	Nickel	7440-02-0	58.3	0.110	0.442	2
06141	Selenium	7782-49-2	1.72	0.0640	0.442	2
06142	Silver	7440-22-4	1.04	0.0157	0.110	2
06145	Thallium	7440-28-0	0.472	0.0331	0.110	2
06148	Vanadium	7440-62-2	80.4	0.0243	0.110	2
06149	Zinc	7440-66-6	113	0.618	3.31	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0667 J	0.0079	0.112	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.2	0.91	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.8	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.78 J	0.23	1.2	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-113-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA7-SB-0.0-1.0

LLI Sample # SW 6426124
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:06

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5915 SDG#: DE259-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.19	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.2	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11284SLC026	10/18/2011 01:28	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/17/2011 12:31	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/18/2011 23:28	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 09:42	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 09:42	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/13/2011 09:42	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112795708003	10/14/2011 07:11	Tara L Snyder	5
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 09:42	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 09:42	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 09:42	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 09:42	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 09:42	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 09:42	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 09:42	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 09:42	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112915708001	10/19/2011 13:44	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 09:42	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 09:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 09:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 09:38	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 09:38	Choon Y Tian	5
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 09:07	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-113-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-113-SA7-SB-0.0-1.0

LLI Sample # SW 6426124
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:06

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5915 SDG#: DE259-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 09:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 09:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 09:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 09:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 09:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 09:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 09:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 09:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 09:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 09:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 09:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 08:57	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112875708001	10/17/2011 11:09	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112915708001	10/18/2011 22:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11287621201B	10/15/2011 11:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201B	10/14/2011 19:31	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11284243201A	10/14/2011 17:54	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11287621201B	10/14/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201B	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401B	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-115-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA7-SB-0.5-1.5

LLI Sample # SW 6426125
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:23

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5916 SDG#: DE259-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-115-SA7-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-115-SA7-SB-0.5-1.5

LLI Sample # SW 6426125
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:23

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5916 SDG#: DE259-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.8	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.3	U	6.3	19	1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.8	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.8	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.8	1
10138	Pyrene	129-00-0	0.70	U	0.70	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-115-SA7-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-115-SA7-SB-0.5-1.5

LLI Sample # SW 6426125
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:23

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5916 SDG#: DE259-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,700		6.16	20.4	1
07914	Boron	7440-42-8	0.367	U	0.367	5.09	1
01650	Calcium	7440-70-2	2,550		2.55	20.4	1
01654	Iron	7439-89-6	19,900		2.66	20.4	1
01656	Lithium	7439-93-2	19.1		0.63	2.0	1
01657	Magnesium	7439-95-4	5,440		0.448	10.2	1
06958	Manganese	7439-96-5	212		0.0367	0.509	1
10145	Phosphorus	7723-14-0	276		0.357	10.2	1
01662	Potassium	7440-09-7	1,280		11.5	50.9	1
01667	Sodium	7440-23-5	509		6.06	102	1
07968	Strontium	7440-24-6	12.7		0.0255	0.509	1
06969	Tin	7440-31-5	2.34	J	0.326	10.2	1
06970	Titanium	7440-32-6	1,320		0.0723	1.02	1
10146	Zirconium	7440-67-7	0.913	J	0.469	5.09	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0782	J	0.0761	0.206	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.86		0.0823	0.411	2
06126	Barium	7440-39-3	89.7		0.109	0.411	2
06127	Beryllium	7440-41-7	0.576		0.0165	0.103	2
06128	Cadmium	7440-43-9	0.0453	U	0.0453	0.103	2
06131	Chromium	7440-47-3	27.0		0.123	0.411	2
06132	Cobalt	7440-48-4	6.14		0.0206	0.103	2
06133	Copper	7440-50-8	7.81		0.0823	0.411	2
06135	Lead	7439-92-1	4.62		0.0105	0.206	2
06138	Molybdenum	7439-98-7	0.467		0.0514	0.103	2
06139	Nickel	7440-02-0	14.0		0.103	0.411	2
06141	Selenium	7782-49-2	0.192	J	0.0597	0.411	2
06142	Silver	7440-22-4	0.0290	J	0.0146	0.103	2
06145	Thallium	7440-28-0	0.196		0.0309	0.103	2
06148	Vanadium	7440-62-2	43.8		0.0226	0.103	2
06149	Zinc	7440-66-6	52.7		0.576	3.09	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	U	0.0073	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.4		0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42	J	0.21	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-115-SA7-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-115-SA7-SB-0.5-1.5

LLI Sample # SW 6426125
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:23

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5916 SDG#: DE259-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.01	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	5.6	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11284SLC026	10/18/2011 01:53	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/17/2011 13:04	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/19/2011 01:02	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 09:46	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 09:46	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/13/2011 09:46	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112795708003	10/13/2011 09:46	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 09:46	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 09:46	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 09:46	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 09:46	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 09:46	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 09:46	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 09:46	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 09:46	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112915708001	10/19/2011 13:48	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 09:46	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 09:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 09:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 09:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 09:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 09:10	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-115-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-115-SA7-SB-0.5-1.5

LLI Sample # SW 6426125
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:23

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5916 SDG#: DE259-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 09:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 09:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 09:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 09:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 09:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 09:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 09:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 09:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 09:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 09:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 09:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 08:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112875708001	10/17/2011 11:09	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112915708001	10/18/2011 22:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11287621201B	10/15/2011 11:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201B	10/14/2011 19:54	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11284243201A	10/14/2011 18:01	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11287621201B	10/14/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201B	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401B	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-132-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-4.0-5.0

LLI Sample # SW 6426126
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:23

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5917 SDG#: DE259-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	175	U	175	349	10
	Reporting limits were raised due to interference from the sample matrix.						
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	2-butoxy-Ethanol	111-76-2	1,700	U	1,700	1,700	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	70	U	70	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	70	U	70	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-132-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-4.0-5.0

LLI Sample # SW 6426126
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:23

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5917 SDG#: DE259-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	2-phenoxy-Ethanol	122-99-6	1,700	U	1,700	1,700	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.7	1
10138	Benzo(a)pyrene	50-32-8	1.4	J	0.70	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	3.4		0.70	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	1.6	J	0.70	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	3.4		0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	J	0.70	1.7	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.3	U	6.3	19	1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.7	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	J	0.70	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.7	1
10138	Pyrene	129-00-0	0.70	U	0.70	1.7	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1	25.72
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	630	U	630	1,600	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-132-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-4.0-5.0

LLI Sample # SW 6426126
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:23

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5917 SDG#: DE259-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.66	J	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside of the method required holding time, and surrogate recoveries are within the QC acceptance limits. Since the hold time had expired prior to the second extraction all results are reported from the original extract. Similar results were obtained in both extracts.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520	1
10501	Isopropanol	67-63-0	100	U	100	520	1
10501	Methanol	67-56-1	100	U	100	520	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10	1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10	1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3	1
10199	EFH (C15-C20)	n.a.	0.54	J	0.42	1.3	1
10199	EFH (C21-C30)	n.a.	7.4		0.42	1.3	1
10199	EFH (C30 - C40)	n.a.	21		0.42	1.3	1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-132-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-4.0-5.0

LLI Sample # SW 6426126
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:23

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5917 SDG#: DE259-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,100		6.10	20.2	1
07914	Boron	7440-42-8	0.556	J	0.363	5.04	1
01650	Calcium	7440-70-2	3,210		2.52	20.2	1
01654	Iron	7439-89-6	19,000		2.63	20.2	1
01656	Lithium	7439-93-2	22.3		0.62	2.0	1
01657	Magnesium	7439-95-4	4,110		0.443	10.1	1
06958	Manganese	7439-96-5	242		0.0363	0.504	1
10145	Phosphorus	7723-14-0	319		0.353	10.1	1
01662	Potassium	7440-09-7	2,580		11.4	50.4	1
01667	Sodium	7440-23-5	133		6.00	101	1
07968	Strontium	7440-24-6	17.0		0.0252	0.504	1
06969	Tin	7440-31-5	2.29	J	0.323	10.1	1
06970	Titanium	7440-32-6	1,130		0.0723	1.02	1
10146	Zirconium	7440-67-7	1.42	J	0.464	5.04	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.145	J	0.0753	0.204	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.81		0.0814	0.407	2
06126	Barium	7440-39-3	105		0.108	0.407	2
06127	Beryllium	7440-41-7	0.619		0.0163	0.102	2
06128	Cadmium	7440-43-9	0.131		0.0448	0.102	2
06131	Chromium	7440-47-3	19.7		0.122	0.407	2
06132	Cobalt	7440-48-4	6.82		0.0204	0.102	2
06133	Copper	7440-50-8	9.14		0.0814	0.407	2
06135	Lead	7439-92-1	6.71		0.0104	0.204	2
06138	Molybdenum	7439-98-7	0.788		0.0509	0.102	2
06139	Nickel	7440-02-0	12.8		0.102	0.407	2
06141	Selenium	7782-49-2	0.122	J	0.0590	0.407	2
06142	Silver	7440-22-4	0.0302	J	0.0145	0.102	2
06145	Thallium	7440-28-0	0.324		0.0305	0.102	2
06148	Vanadium	7440-62-2	38.3		0.0224	0.102	2
06149	Zinc	7440-66-6	66.8		0.570	3.05	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0069	U	0.0069	0.0981	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8		0.84	1.0	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.84	U	0.84	1.6	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.30	J	0.21	1.0	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-132-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-4.0-5.0

LLI Sample # SW 6426126
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:23

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5917 SDG#: DE259-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.11	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.6	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-132-SA7-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11283SLD026	10/13/2011 18:25	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLC026	10/18/2011 02:18	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/17/2011 13:36	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11283SLD026	10/11/2011 07:30	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11274A34B	10/07/2011 10:12	Laura M Krieger	25.72
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201127425715	10/01/2011 16:09	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201127425715	10/01/2011 16:09	Christopher D Meeks	n.a.
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112790001A	10/07/2011 21:17	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/19/2011 01:21	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112790001A	10/06/2011 13:00	Wanda F Oswald	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112760023A	10/05/2011 00:32	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112790048A	10/06/2011 22:09	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112790037A	10/08/2011 14:19	Heather E Williams	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-132-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-4.0-5.0

LLI Sample # SW 6426126
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:23

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5917 SDG#: DE259-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112800012A	10/12/2011 04:48	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112800012A	10/07/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112790037A	10/07/2011 07:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112760023A	10/04/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112790048A	10/06/2011 17:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 09:50	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 09:50	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/13/2011 09:50	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112795708003	10/13/2011 09:50	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 09:50	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 09:50	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 09:50	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 09:50	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 09:50	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 09:50	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 09:50	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 09:50	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112915708001	10/19/2011 13:52	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 09:50	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 09:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 09:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 09:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 09:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 09:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 09:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 09:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 09:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 09:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 09:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 09:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 09:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 09:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 09:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 09:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 09:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 08:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112875708001	10/17/2011 11:09	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112915708001	10/18/2011 22:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11287621201B	10/15/2011 05:56	Ashley M Adams	1

Sample Description: **SL-132-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-4.0-5.0

LLI Sample # SW 6426126
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:23

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5917 SDG#: DE259-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11287621201B	10/15/2011 05:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201B	10/14/2011 20:17	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11284243201A	10/14/2011 18:23	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11287621201B	10/14/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201B	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401B	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-132-SA7-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-8.5-9.5

LLI Sample # SW 6426127
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:10

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5918 SDG#: DE259-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	178	U	178	357	10
	Reporting limits were raised due to interference from the sample matrix.						
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	2-butoxy-Ethanol	111-76-2	1,800	U	1,800	1,800	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-132-SA7-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-8.5-9.5

LLI Sample # SW 6426127
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:10

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5918 SDG#: DE259-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	2-phenoxy-Ethanol	122-99-6	1,800	U	1,800	1,800	1
04688	Tetralin	119-64-2	180	U	180	180	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19	1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1	24.9
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	640	U	640	1,600	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-132-SA7-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-8.5-9.5

LLI Sample # SW 6426127
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:10

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5918 SDG#: DE259-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540	1
10501	Isopropanol	67-63-0	110	U	110	540	1
10501	Methanol	67-56-1	110	U	110	540	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11	1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11	1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3	1
10199	EFH (C15-C20)	n.a.	0.48	J	0.43	1.3	1
10199	EFH (C21-C30)	n.a.	5.6		0.43	1.3	1
10199	EFH (C30 - C40)	n.a.	20		0.43	1.3	1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,100		6.17	20.4	1
07914	Boron	7440-42-8	1.07	J	0.367	5.10	1
01650	Calcium	7440-70-2	2,910		2.55	20.4	1
01654	Iron	7439-89-6	18,500		2.66	20.4	1
01656	Lithium	7439-93-2	20.7		0.63	2.0	1
01657	Magnesium	7439-95-4	3,930		0.449	10.2	1
06958	Manganese	7439-96-5	398		0.0367	0.510	1
10145	Phosphorus	7723-14-0	244		0.357	10.2	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-132-SA7-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-8.5-9.5

LLI Sample # SW 6426127
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:10

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5918 SDG#: DE259-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	2,360		11.5	51.0	1
01667	Sodium	7440-23-5	189		6.07	102	1
07968	Strontium	7440-24-6	17.5		0.0255	0.510	1
06969	Tin	7440-31-5	2.46	J	0.326	10.2	1
06970	Titanium	7440-32-6	1,220		0.376	5.30	5
10146	Zirconium	7440-67-7	1.49	J	0.469	5.10	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0762	U	0.0762	0.206	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.94		0.0824	0.412	2
06126	Barium	7440-39-3	93.8		0.109	0.412	2
06127	Beryllium	7440-41-7	0.579		0.0165	0.103	2
06128	Cadmium	7440-43-9	0.105		0.0453	0.103	2
06131	Chromium	7440-47-3	15.2		0.124	0.412	2
06132	Cobalt	7440-48-4	9.74		0.0206	0.103	2
06133	Copper	7440-50-8	6.53		0.0824	0.412	2
06135	Lead	7439-92-1	6.01		0.0105	0.206	2
06138	Molybdenum	7439-98-7	0.466		0.0515	0.103	2
06139	Nickel	7440-02-0	10.5		0.103	0.412	2
06141	Selenium	7782-49-2	0.425		0.0597	0.412	2
06142	Silver	7440-22-4	0.0172	J	0.0146	0.103	2
06145	Thallium	7440-28-0	0.242		0.0309	0.103	2
06148	Vanadium	7440-62-2	36.3		0.0226	0.103	2
06149	Zinc	7440-66-6	55.4		0.577	3.09	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	U	0.0073	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.87	U	0.87	1.1	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.93	J	0.87	1.6	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.28	J	0.21	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.19		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.6		0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-132-SA7-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-8.5-9.5

LLI Sample # SW 6426127
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:10

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5918 SDG#: DE259-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-132-SA7-SB-9.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11283SLD026	10/13/2011 18:44	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLC026	10/18/2011 02:44	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/17/2011 14:08	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11283SLD026	10/11/2011 07:30	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11274A34B	10/07/2011 10:49	Laura M Krieger	24.9
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201127425715	10/01/2011 16:10	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201127425715	10/01/2011 16:11	Christopher D Meeks	n.a.
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112790001A	10/07/2011 21:55	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/19/2011 01:39	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112790001A	10/06/2011 13:00	Wanda F Oswald	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112760023A	10/05/2011 00:49	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112790048A	10/06/2011 22:22	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112790037A	10/08/2011 14:46	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112800012A	10/12/2011 05:59	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112800012A	10/07/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112790037A	10/07/2011 07:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112760023A	10/04/2011 17:00	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-132-SA7-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-8.5-9.5

LLI Sample # SW 6426127
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:10

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5918 SDG#: DE259-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112790048A	10/06/2011 17:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 09:55	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 09:55	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/13/2011 09:55	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112795708003	10/13/2011 09:55	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 09:55	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 09:55	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 09:55	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 09:55	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 09:55	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 09:55	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 09:55	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 09:55	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112915708001	10/19/2011 23:42	John W Yanzuk II	5
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 09:55	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 09:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 09:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 09:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 09:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 09:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 09:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 09:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 09:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 09:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 09:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 09:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 09:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 09:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 09:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 09:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 09:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 09:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112875708001	10/17/2011 11:09	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112915708001	10/18/2011 22:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11287621201B	10/15/2011 06:08	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11287621201B	10/15/2011 06:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201B	10/14/2011 20:40	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11284243201A	10/14/2011 19:49	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11287621201B	10/14/2011 06:00	William L Hamaker Jr	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-132-SA7-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-8.5-9.5

LLI Sample # SW 6426127
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:10

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5918 SDG#: DE259-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201B	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401B	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-180-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA7-SB-2.0-3.0

LLI Sample # SW 6426128
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:50

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5919 SDG#: DE259-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.3	U	17.3	34.6	1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	2-butoxy-Ethanol	111-76-2	1,700	U	1,700	1,700	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-180-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-180-SA7-SB-2.0-3.0

LLI Sample # SW 6426128
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:50

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5919 SDG#: DE259-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	2-phenoxy-Ethanol	122-99-6	1,700	U	1,700	1,700	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.2	U	6.2	19	1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0	24.37
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	630	U	630	1,600	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-180-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA7-SB-2.0-3.0

LLI Sample # SW 6426128
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:50

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5919 SDG#: DE259-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520	1
10501	Isopropanol	67-63-0	100	U	100	520	1
10501	Methanol	67-56-1	100	U	100	520	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10	1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10	1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6	1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6	1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3	1
10199	EFH (C15-C20)	n.a.	0.56	J	0.42	1.3	1
10199	EFH (C21-C30)	n.a.	4.8		0.42	1.3	1
10199	EFH (C30 - C40)	n.a.	8.6		0.42	1.3	1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,500		6.24	20.6	1
07914	Boron	7440-42-8	1.36	J	0.371	5.16	1
01650	Calcium	7440-70-2	6,720		2.58	20.6	1
01654	Iron	7439-89-6	15,700		2.69	20.6	1
01656	Lithium	7439-93-2	23.9		0.64	2.1	1
01657	Magnesium	7439-95-4	3,580		0.454	10.3	1
06958	Manganese	7439-96-5	267		0.0371	0.516	1
10145	Phosphorus	7723-14-0	304		0.361	10.3	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-180-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-180-SA7-SB-2.0-3.0

LLI Sample # SW 6426128
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:50

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5919 SDG#: DE259-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	2,980		11.7	51.6	1
01667	Sodium	7440-23-5	108		6.14	103	1
07968	Strontium	7440-24-6	13.1		0.0258	0.516	1
06969	Tin	7440-31-5	2.23	J	0.330	10.3	1
06970	Titanium	7440-32-6	1,000		0.0718	1.01	1
10146	Zirconium	7440-67-7	1.08	J	0.474	5.16	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0748	U	0.0748	0.202	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	2.86		0.0809	0.405	2
06126	Barium	7440-39-3	90.3		0.107	0.405	2
06127	Beryllium	7440-41-7	0.383		0.0162	0.101	2
06128	Cadmium	7440-43-9	0.111		0.0445	0.101	2
06131	Chromium	7440-47-3	11.7		0.121	0.405	2
06132	Cobalt	7440-48-4	4.30		0.0202	0.101	2
06133	Copper	7440-50-8	5.16		0.0809	0.405	2
06135	Lead	7439-92-1	3.63		0.0103	0.202	2
06138	Molybdenum	7439-98-7	0.342		0.0506	0.101	2
06139	Nickel	7440-02-0	7.43		0.101	0.405	2
06141	Selenium	7782-49-2	0.0587	U	0.0587	0.405	2
06142	Silver	7440-22-4	0.0144	U	0.0144	0.101	2
06145	Thallium	7440-28-0	0.226		0.0303	0.101	2
06148	Vanadium	7440-62-2	24.9		0.0222	0.101	2
06149	Zinc	7440-66-6	50.5		0.566	3.03	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	U	0.0071	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1		0.83	1.0	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.6		0.83	1.6	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.28	J	0.21	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.21		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.0		0.50	0.50	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-180-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA7-SB-2.0-3.0

LLI Sample # SW 6426128
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:50

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5919 SDG#: DE259-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-180-SA7-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11283SLD026	10/13/2011 19:03	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11284SLC026	10/18/2011 03:09	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11285SLA026	10/17/2011 14:41	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11283SLD026	10/11/2011 07:30	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11285SLA026	10/12/2011 02:30	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11284SLC026	10/12/2011 12:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11274A34B	10/07/2011 11:25	Laura M Krieger	24.37
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201127425715	10/01/2011 16:12	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201127425715	10/01/2011 16:12	Christopher D Meeks	n.a.
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112790001A	10/07/2011 22:05	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112840033A	10/19/2011 01:58	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112840033A	10/12/2011 10:30	Olivia Arosemena	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112790001A	10/06/2011 13:00	Wanda F Oswald	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112760023A	10/05/2011 01:05	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112790048A	10/06/2011 22:35	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112790037A	10/08/2011 15:13	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112800012A	10/12/2011 04:24	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112800012A	10/07/2011 18:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	112790037A	10/07/2011 07:40	Katheryne V Sponheimer	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112760023A	10/04/2011 17:00	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-180-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-180-SA7-SB-2.0-3.0

LLI Sample # SW 6426128
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:50

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5919 SDG#: DE259-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112790048A	10/06/2011 17:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112795708003	10/13/2011 09:59	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112795708003	10/13/2011 09:59	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112795708003	10/13/2011 09:59	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112795708003	10/13/2011 09:59	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112795708003	10/13/2011 09:59	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112795708003	10/13/2011 09:59	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112795708003	10/13/2011 09:59	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112795708003	10/13/2011 09:59	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112795708003	10/13/2011 09:59	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112795708003	10/13/2011 09:59	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112795708003	10/13/2011 09:59	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112795708003	10/13/2011 09:59	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	112915708001	10/19/2011 14:00	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112795708003	10/13/2011 09:59	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112791026001A	10/10/2011 09:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112791026001A	10/10/2011 09:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112791026001D	10/10/2011 09:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112791026001A	10/10/2011 09:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112791026001A	10/10/2011 09:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112791026001A	10/10/2011 09:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112791026001A	10/10/2011 09:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112791026001A	10/10/2011 09:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112791026001A	10/10/2011 09:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112791026001C	10/10/2011 09:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112791026001A	10/10/2011 09:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112791026001B	10/10/2011 09:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112791026001A	10/10/2011 09:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112791026001A	10/10/2011 09:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112791026001A	10/10/2011 09:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112791026001A	10/10/2011 09:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112785711003	10/06/2011 09:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112795708003	10/09/2011 13:18	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112875708001	10/17/2011 11:09	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112915708001	10/18/2011 22:06	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112791026001	10/09/2011 13:46	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112785711003	10/06/2011 02:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11287621201B	10/15/2011 06:20	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11287621201B	10/15/2011 06:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11286286201B	10/14/2011 21:03	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11284243201A	10/14/2011 19:57	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11287621201B	10/14/2011 06:00	William L Hamaker Jr	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-180-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-180-SA7-SB-2.0-3.0

LLI Sample # SW 6426128
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:50

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5919 SDG#: DE259-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11286286201B	10/13/2011 07:10	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11286039401B	10/13/2011 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11284243201A	10/11/2011 22:10	Daniel S Smith	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **FB-SA7-SB-093011 Water**
SSFL Area IV Collocated Soil Sampling
FB-SA7-SB-093011

LLI Sample # WW 6426129
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:40

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5920 SDG#: DE259-20FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	0.478 U	0.478	0.955	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11278WAC026	10/07/2011 17:15	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11278WAC026	10/05/2011 14:25	Wanda F Oswald	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA7-SB-093011 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-093011

LLI Sample # WW 6426130
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:45

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5921 SDG#: DE259-21EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	0.952 J	0.478	0.956	1

The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.

The internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection. The values here are from the initial injection of the sample.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11278WAC026	10/07/2011 17:34	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11278WAC026	10/05/2011 14:25	Wanda F Oswald	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: TB-092911 Sand
SSFL Area IV Collocated Soil Sampling
TB-092911

LLI Sample # SW 6426131
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:30

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5922 SDG#: DE259-22TB

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	16.5	U	16.5	33.0	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.50	U	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11283SLD026	10/13/2011 19:23	Matthew S Woods	1
11630	NDMA Soil Microwave	SW-846 3546	1	11283SLD026	10/11/2011 07:30	Katheryne V Sponheimer	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-092911 Water**
SSFL Area IV Collocated Soil Sampling
TB-092911

LLI Sample # WW 6426132
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:30

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5923 SDG#: DE259-23TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	4.12	0.496	0.991	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11278WAC026	10/07/2011 17:53	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11278WAC026	10/05/2011 14:25	Wanda F Oswald	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **TB-092911 Water**
SSFL Area IV Collocated Soil Sampling
TB-092911

LLI Sample # WW 6426133
LLI Group # 1269321
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:30

Submitted: 10/01/2011 09:45
Reported: 11/08/2011 12:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E5924 SDG#: DE259-24TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11279C20A	10/10/2011 14:09	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11279C20A	10/10/2011 14:09	Marie D John	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269321
Reported: 11/08/11 at 12:18 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11278WAC026	Sample number(s): 6426129-6426130,6426132									
N-Nitrosodimethylamine	0.500	U	0.500	1.00	ng/l	105	93	70-130	12	30
Batch number: 11283SLD026	Sample number(s): 6426126-6426128,6426131									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	93		70-130		
Batch number: 11284SLC026	Sample number(s): 6426110-6426128									
Aniline	170 U		170.	500	ug/kg	79		20-115		
Benzidine	1,200 U		1,200.	3,300	ug/kg	45		15-121		
Benzoic acid	170 U		170.	500	ug/kg	63		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	103		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	104		73-114		
2-butoxy-Ethanol	1,700 U		1,700.	1,700	ug/kg					
Butylbenzylphthalate	17	U	17.	170	ug/kg	95		75-115		
Carbazole	17	U	17.	170	ug/kg	96		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	108		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	51		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	104		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	101		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	99		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	76		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	102		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	101		74-115		
Dibenzofuran	17	U	17.	170	ug/kg	96		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	90		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	89		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	89		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	51		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	105		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	107		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	114		83-120		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	46		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	25		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	104		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	105		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	105		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	98		75-117		
Fluoranthene	17	U	17.	170	ug/kg	104		78-116		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269321
Reported: 11/08/11 at 12:18 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Hexachlorobenzene	17	U	17.	170	ug/kg	106		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	101		65-117		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	91		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	89		61-109		
Isophorone	17	U	17.	170	ug/kg	107		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	106		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	104		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	104		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	94		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	74		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	108		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	106		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	81		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	100		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	101		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	79		51-117		
Phenol	17	U	17.	170	ug/kg	108		58-112		
2-phenoxy-Ethanol	1,700	U	1,700.	1,700	ug/kg					
Tetralin	170	U	170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	99		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	103		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	103		78-111		
Batch number: 11285SLA026	Sample number(s): 6426110-6426128									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	99		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	92		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	98		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	98		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	97		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	94		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	115		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	100		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	90		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	98		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	101		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	110		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	95		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	98		79-121		
Bis(2-Ethylhexyl)phthalate	12	J	6.0	18	ug/kg	140		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	98		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	100		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	111		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	89		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	89		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	91		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	96		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	89		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	95		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	92		72-119		
Batch number: 11274A34B	Sample number(s): 6426126-6426128									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	71		67-119		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269321
Reported: 11/08/11 at 12:18 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11279C20A	Sample number(s): 6426133									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	100	75-135	0	30
Batch number: 112790001A	Sample number(s): 6426126-6426128									
20a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	94		80-126		
Batch number: 112830002A	Sample number(s): 6426110-6426122									
2,4-D	1.2	U	1.2	3.6	ug/kg	92		73-146		
Dalapon	4.4	U	4.4	9.0	ug/kg	57		11-116		
2,4-DB	0.62	U	0.62	1.7	ug/kg	84		62-131		
Dicamba	0.40	U	0.40	1.2	ug/kg	75		54-121		
Dinoseb	0.80	U	0.80	2.4	ug/kg	8*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	110		62-170		
MCPA	76	U	76.	250	ug/kg	74		60-130		
MCPP (Mecoprop)	75	U	75.	250	ug/kg	69		54-137		
2,4,5-T	0.10	J	0.082	0.17	ug/kg	116		73-143		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	75		68-114		
Batch number: 112840033A	Sample number(s): 6426110-6426128									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	79	76	36-106	5	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	85		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	95		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112840037A	Sample number(s): 6426110-6426122									
Aldrin	0.066	U	0.066	0.17	ug/kg	70		44-135		
Alpha BHC	0.034	U	0.034	0.17	ug/kg	65		38-130		
Beta BHC	0.060	U	0.060	0.17	ug/kg	97		56-134		
Gamma BHC - Lindane	0.034	U	0.034	0.17	ug/kg	74		46-127		
Chlordane	0.80	U	0.80	3.4	ug/kg					
p,p-DDD	0.066	U	0.066	0.34	ug/kg	127		60-137		
p,p-DDE	0.066	U	0.066	0.34	ug/kg	117		59-141		
p,p-DDT	0.066	U	0.066	0.34	ug/kg	123		54-130		
Delta BHC	0.036	U	0.036	0.17	ug/kg	103		55-144		
Dieldrin	0.066	U	0.066	0.34	ug/kg	94		65-129		
Endosulfan I	0.044	U	0.044	0.17	ug/kg	88		45-123		
Endosulfan II	0.066	U	0.066	0.34	ug/kg	112		63-127		
Endosulfan Sulfate	0.066	U	0.066	0.34	ug/kg	122		72-138		
Endrin	0.066	U	0.066	0.34	ug/kg	96		62-129		
Endrin Aldehyde	0.066	U	0.066	0.34	ug/kg	92		55-132		
Endrin Ketone	0.066	U	0.066	0.34	ug/kg	115		69-139		
Heptachlor	0.060	U	0.060	0.17	ug/kg	71		43-124		
Heptachlor Epoxide	0.034	U	0.034	0.17	ug/kg	88		65-131		
Methoxychlor	0.34	U	0.34	1.7	ug/kg	143*		59-125		
Mirex	0.066	U	0.066	0.34	ug/kg					
Toxaphene	2.2	U	2.2	6.6	ug/kg					
Batch number: 112760023A	Sample number(s): 6426126-6426128									
Ethanol	100		100.	500	ug/kg	98		71-129		

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269321
Reported: 11/08/11 at 12:18 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Isopropanol	100 U		100.	500	ug/kg	98		75-125		
Methanol	100 U		100.	500	ug/kg	99		68-129		
Batch number: 112790048A	Sample number(s): 6426126-6426128									
Diethylene glycol	5.0	U	5.0	10	mg/kg	94		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	96		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	84		67-131		
Batch number: 112790037A	Sample number(s): 6426126-6426128									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	100		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	96		69-109		
Batch number: 112800012A	Sample number(s): 6426126-6426128									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	93		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	98		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	97		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	95		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	74		49-107		
Batch number: 112785711003	Sample number(s): 6426110-6426128									
Mercury	0.0069	U	0.0069	0.0983	mg/kg	112		82-118		
Batch number: 112791026001A	Sample number(s): 6426110-6426128									
Antimony	0.0712	U	0.0712	0.192	mg/kg	78		40-227		
Arsenic	0.0769	U	0.0769	0.385	mg/kg	102		83-111		
Beryllium	0.0154	U	0.0154	0.0962	mg/kg	98		84-112		
Cadmium	0.0423	U	0.0423	0.0962	mg/kg	99		83-111		
Chromium	0.115	U	0.115	0.385	mg/kg	115		77-123		
Cobalt	0.0192	U	0.0192	0.0962	mg/kg	103		85-114		
Copper	0.122	J	0.0769	0.385	mg/kg	101		81-110		
Lead	0.0700	J	0.0098	0.192	mg/kg	101		84-112		
Nickel	0.0962	U	0.0962	0.385	mg/kg	101		81-110		
Silver	0.0137	U	0.0137	0.0962	mg/kg	101		83-112		
Thallium	0.0288	U	0.0288	0.0962	mg/kg	102		82-112		
Vanadium	0.0212	U	0.0212	0.0962	mg/kg	103		76-110		
Zinc	0.538	U	0.538	2.88	mg/kg	100		82-110		
Batch number: 112791026001B	Sample number(s): 6426110-6426128									
Selenium	0.0558	U	0.0558	0.385	mg/kg	98		79-110		
Batch number: 112791026001C	Sample number(s): 6426110-6426128									
Molybdenum	0.0481	U	0.0481	0.0962	mg/kg	100		80-110		
Batch number: 112791026001D	Sample number(s): 6426110-6426128									
Barium	0.102	U	0.102	0.385	mg/kg	105		83-110		
Batch number: 112795708003	Sample number(s): 6426110-6426128									
Aluminum	5.93	U	5.93	19.6	mg/kg	105		51-110		
Boron	0.353	U	0.353	4.90	mg/kg	99		83-110		
Calcium	8.43	J	2.45	19.6	mg/kg	101		81-110		
Iron	6.68	J	2.56	19.6	mg/kg	98		57-110		
Lithium	0.61	U	0.61	2.0	mg/kg	100		80-120		
Magnesium	0.579	J	0.431	9.80	mg/kg	102		68-110		
Manganese	0.221	J	0.0353	0.490	mg/kg	97		85-116		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269321
Reported: 11/08/11 at 12:18 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Phosphorus	1.26	J	0.343	9.80	mg/kg	105		80-120		
Potassium	11.1	U	11.1	49.0	mg/kg	101		71-110		
Sodium	5.83	U	5.83	98.0	mg/kg	98		76-110		
Strontium	0.0353	J	0.0245	0.490	mg/kg	97		84-110		
Tin	1.44	J	0.314	9.80	mg/kg	94		86-120		
Titanium	0.0696	U	0.0696	0.980	mg/kg	77*		80-120		
Zirconium	0.451	U	0.451	4.90	mg/kg	101		80-120		
Batch number: 112915708001	Sample number(s): 6426111-6426128									
Titanium	0.0710	U	0.0710	1.00	mg/kg	90		80-120		
Batch number: 11284243201A	Sample number(s): 6426110-6426128									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	83		80-120		
Batch number: 11286286201A	Sample number(s): 6426110-6426119									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	112		85-115		
Batch number: 11286286201B	Sample number(s): 6426120-6426128									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	112		85-115		
Batch number: 11287621201A	Sample number(s): 6426111-6426119									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	101		90-110		
Batch number: 11287621201B	Sample number(s): 6426120-6426128									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	101		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	102		90-110		
Batch number: 11286039401A	Sample number(s): 6426110-6426118									
17a pH by 9045C						100		95-105		
Batch number: 11286039401B	Sample number(s): 6426119-6426128									
17a pH by 9045C						100		95-105		
Batch number: 11285162401A	Sample number(s): 6426110-6426118									
Moisture Content by 160.3						102		80-120		
Batch number: 11285162401B	Sample number(s): 6426119-6426128,6426131									
Moisture Content by 160.3						102		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11283SLD026	Sample number(s): 6426126-6426128,6426131 UNSPK: P430028								
N-Nitrosodimethylamine	85	92	70-130	9	30				
Batch number: 11284SLC026	Sample number(s): 6426110-6426128 UNSPK: 6426110								
Aniline	77	71	18-116	9	30				
Benzidine	0*	0*	35-141	0	30				
Benzoic acid	40	35	10-173	14	30				
Benzyl alcohol	103	100	67-115	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269321
Reported: 11/08/11 at 12:18 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
4-Bromophenyl-phenylether	104	102	67-129	2	30				
Butylbenzylphthalate	96	92	73-134	4	30				
Carbazole	95	90	64-120	6	30				
4-Chloro-3-methylphenol	107	101	62-122	6	30				
4-Chloroaniline	59	57	13-107	4	30				
bis(2-Chloroethoxy)methane	105*	100	75-104	6	30				
bis(2-Chloroethyl)ether	101	99	60-116	2	30				
bis(2-Chloroisopropyl)ether	101	96	55-142	5	30				
2-Chloronaphthalene	81	74	50-141	9	30				
2-Chlorophenol	101	100	73-121	1	30				
4-Chlorophenyl-phenylether	104	98	80-109	6	30				
Dibenzofuran	97	92	71-112	5	30				
1,2-Dichlorobenzene	89	86	66-108	4	30				
1,3-Dichlorobenzene	89	87	63-109	3	30				
1,4-Dichlorobenzene	90	86	58-108	5	30				
3,3'-Dichlorobenzidine	69	66	28-109	4	30				
2,4-Dichlorophenol	105	102	66-123	3	30				
2,4-Dimethylphenol	106	102	68-118	4	30				
3,5-Dimethylphenol	113	108	71-127	5	30				
4,6-Dinitro-2-methylphenol	54	55	11-126	2	30				
2,4-Dinitrophenol	31	29	20-143	5	30				
2,4-Dinitrotoluene	100	96	56-129	4	30				
2,6-Dinitrotoluene	102	97	69-123	5	30				
1,2-Diphenylhydrazine	104	100	71-129	5	30				
bis(2-Ethylhexyl)phthalate	99	95	63-122	5	30				
Fluoranthene	102	97	73-112	4	30				
Hexachlorobenzene	105	101	77-114	4	30				
Hexachlorobutadiene	102	97	62-120	5	30				
Hexachlorocyclopentadiene	88	82	10-153	6	30				
Hexachloroethane	90	87	57-109	4	30				
Isophorone	106*	102	73-102	4	30				
2-Methylphenol	103	102	75-111	2	30				
4-Methylphenol	102	101	59-123	1	30				
2-Nitroaniline	104	99	67-125	5	30				
3-Nitroaniline	96	91	59-122	6	30				
4-Nitroaniline	81	73	41-109	10	30				
Nitrobenzene	106	100	57-125	6	30				
2-Nitrophenol	103	102	56-127	1	30				
4-Nitrophenol	85	79	37-129	7	30				
N-Nitroso-di-n-propylamine	98	96	60-116	1	30				
N-Nitrosodiphenylamine	100	96	71-122	4	30				
Pentachlorophenol	84	87	28-127	3	30				
Phenol	104	103	58-126	1	30				
1,2,4-Trichlorobenzene	101	96	72-115	5	30				
2,4,5-Trichlorophenol	108	103	58-129	5	30				
2,4,6-Trichlorophenol	108	103	56-134	4	30				
Batch number: 11285SLA026	Sample number(s): 6426110-6426128 UNSPK: 6426111								
Acenaphthene	92	98	63-105	7	30				
Acenaphthylene	88	99	67-114	11	30				
Anthracene	94	104	73-115	10	30				
Benzo(a)anthracene	93	104	59-128	10	30				
Benzo(a)pyrene	103	104	58-142	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269321
Reported: 11/08/11 at 12:18 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(b)fluoranthene	130	117	54-163	11	30				
Benzo(g,h,i)perylene	43	54	33-141	23	30				
Benzo(k)fluoranthene	114	115	57-153	1	30				
Butylbenzylphthalate	128	132	57-173	3	30				
Di-n-butylphthalate	119	128	65-148	7	30				
Chrysene	94	99	67-123	5	30				
Dibenz(a,h)anthracene	53	68	22-133	24	30				
Diethylphthalate	113	111	70-136	1	30				
Dimethylphthalate	102	107	74-118	5	30				
Bis(2-Ethylhexyl)phthalate	146	135	39-167	5	30				
Fluoranthene	112	114	51-149	2	30				
Fluorene	98	104	66-122	6	30				
Indeno(1,2,3-cd)pyrene	51	64	21-143	22	30				
1-Methylnaphthalene	94	95	72-123	1	30				
2-Methylnaphthalene	94	95	64-103	1	30				
Naphthalene	96	96	61-102	0	30				
N-Nitrosodimethylamine	92	92	48-113	0	30				
Di-n-octylphthalate	182	155	40-192	16	30				
Phenanthrene	93	99	62-122	6	30				
Pyrene	101	99	51-131	1	30				
Batch number: 11274A34B	Sample number(s): 6426126-6426128 UNSPK: P421299								
9a TPH by EPA 8015B Gas C5-C12	77	77	39-118	9	30				
Batch number: 112790001A	Sample number(s): 6426126-6426128 UNSPK: 6426126								
20a Formaldehyde 8315A	100	95	80-120	5	50				
Batch number: 112830002A	Sample number(s): 6426110-6426122 UNSPK: 6426110								
2,4-D	47	38	17-180	20	35				
Dalapon	0*	0*	10-125	0	50				
2,4-DB	57	52	10-201	10	50				
Dicamba	52	52	10-190	0	50				
Dinoseb	9*	15	10-46	43*	35				
2,4-DP (Dichlorprop)	82	73	33-178	11	50				
MCPA	126	60	10-213	71*	50				
MCPP (Mecoprop)	44	23	10-184	38	50				
2,4,5-T	12	46	10-156	117*	35				
2,4,5-TP	53	46	24-141	15	35				
Batch number: 112840033A	Sample number(s): 6426110-6426128 UNSPK: 6426110								
PCB-1016	70	70	29-146	1	50				
PCB-1260	81	74	39-149	8	50				
Batch number: 112840037A	Sample number(s): 6426110-6426122 UNSPK: 6426110								
Aldrin	82	73	16-126	12	50				
Alpha BHC	56	56	10-129	0	50				
Beta BHC	69	69	14-147	0	50				
Gamma BHC - Lindane	56	56	10-140	0	50				
p,p-DDD	93	90	16-163	3	50				
p,p-DDE	238 (2)	75 (2)	18-161	11	50				
p,p-DDT	159 (2)	-5 (2)	10-176	23	50				
Delta BHC	1581*	188*	23-140	158*	50				
Dieldrin	94	84	19-154	12	50				

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Quality Control Summary

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Endosulfan I	53	47	16-137	12	50				
Endosulfan II	123	100	28-154	21	50				
Endosulfan Sulfate	146	120	21-160	20	50				
Endrin	103	63	11-149	49	50				
Endrin Aldehyde	226*	174*	10-148	26	35				
Endrin Ketone	74	76	22-165	2	50				
Heptachlor	71	68	13-126	4	50				
Heptachlor Epoxide	118	103	13-157	14	50				
Methoxychlor	125	117	32-147	6	50				
Batch number: 112760023A	Sample number(s): 6426126-6426128 UNSPK: P421299								
Ethanol	85	90	48-130	6	20				
Isopropanol	100	92	12-149	9	20				
Methanol	100	91	43-138	9	20				
Batch number: 112790048A	Sample number(s): 6426126-6426128 UNSPK: P430028								
Diethylene glycol	28*	34*	59-109	20	20				
Ethylene glycol	58*	61*	63-107	5	20				
Propylene glycol	61*	63	63-107	2	20				
Batch number: 112790037A	Sample number(s): 6426126-6426128 UNSPK: P421299								
m-Terphenyl	91	96	75-125	6	20				
o-Terphenyl	93	99	75-125	6	20				
p-Terphenyl	92	98	75-125	6	20				
Batch number: 112800012A	Sample number(s): 6426126-6426128 UNSPK: 6426126								
EFH (C12-C14)	99	90	49-123	9	20				
EFH (C15-C20)	90	98	49-123	7	20				
EFH (C21-C30)	24*	121	49-123	23*	20				
EFH (C30 - C40)	-29 (2)	283 (2)	49-123	34*	20				
EFH (C8-C11)	80	75	49-123	6	20				
Batch number: 112785711003	Sample number(s): 6426110-6426128 UNSPK: 6426110 BKG: 6426110								
Mercury	102	97	65-135	4	20	0.0386 J	0.0384 J	1 (1)	20
Batch number: 112791026001A	Sample number(s): 6426110-6426128 UNSPK: 6426110 BKG: 6426110								
Antimony	21*	20*	75-125	4	20	0.179 J	0.117 J	42* (1)	20
Arsenic	146*	86	75-125	14	20	6.11	5.40	12	20
Beryllium	95	72*	75-125	15	20	0.630	0.569	10	20
Cadmium	114	100	75-125	12	20	0.275	0.274	0 (1)	20
Chromium	132*	109	75-125	6	20	26.9	25.5	5	20
Cobalt	112	99	75-125	12	20	9.88	9.21	7	20
Copper	119	98	75-125	8	20	19.6	17.9	9	20
Lead	242 (2)	131 (2)	75-125	13	20	20.4	21.9	7	20
Nickel	125	89	75-125	13	20	18.6	16.6	11	20
Silver	107	98	75-125	10	20	0.0283 J	0.0293 J	4 (1)	20
Thallium	116	94	75-125	13	20	0.316	0.270	16 (1)	20
Vanadium	178 (2)	137 (2)	75-125	7	20	49.4	46.6	6	20
Zinc	143 (2)	76 (2)	75-125	9	20	66.1	62.3	6	20
Batch number: 112791026001B	Sample number(s): 6426110-6426128 UNSPK: 6426110 BKG: 6426110								
Selenium	100	93	75-125	9	20	0.250 J	0.238 J	5 (1)	20

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Quality Control Summary

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Reported: 11/08/11 at 12:18 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Batch number: 112791026001C	Sample number(s): 6426110-6426128 UNSPK: 6426110 BKG: 6426110										
Molybdenum	102	93	75-125	11	20	0.411		0.438		6 (1)	20
Batch number: 112791026001D	Sample number(s): 6426110-6426128 UNSPK: 6426110 BKG: 6426110										
Barium	183 (2)	73 (2)	75-125	11	20	89.8		78.8		13	20
Batch number: 112795708003	Sample number(s): 6426110-6426128 UNSPK: 6426110 BKG: 6426110										
Aluminum	3710 (2)	3342 (2)	75-125	2	20	21,600		22,600		5	20
Boron	99	100	84-115	4	20	11.4		12.0		6 (1)	20
Calcium	-3536 (2)	-4031 (2)	75-125	4	20	78,500		62,500		23*	20
Iron	2084 (2)	829 (2)	75-125	4	20	25,200		24,800		2	20
Lithium	103	103	82-114	2	20	19.6		19.9		1	20
Magnesium	591 (2)	471 (2)	75-125	2	20	7,070		7,230		2	20
Manganese	3 (2)	18 (2)	75-125	2	20	360		320		12	20
Phosphorus	84 (2)	102 (2)	75-125	3	20	549		551		0	20
Potassium	185 (2)	206 (2)	75-125	4	20	5,280		5,420		3	20
Sodium	96	96	75-125	3	20	101		101		1 (1)	20
Strontium	83	76	75-115	2	20	101		88.1		14	20
Tin	78*	79*	80-110	4	20	2.13	J	1.93	J	10 (1)	20
Titanium	376 (2)	379 (2)	75-125	1	20	948		983		4	20
Zirconium	85	84	81-110	2	20	3.85	J	4.39	J	13 (1)	20
Batch number: 112915708001	Sample number(s): 6426111-6426128 UNSPK: 6426111 BKG: 6426111										
Titanium	339 (2)	367 (2)	75-125	3	20	824		844		2	20
Batch number: 11284243201A	Sample number(s): 6426110-6426128 UNSPK: 6426126 BKG: 6426126										
3a Cr VI by EPA 7199	93		75-125			0.29	J	0.43	J	39* (1)	20
Batch number: 11286286201A	Sample number(s): 6426110-6426119 UNSPK: 6426110 BKG: 6426110										
7a Perchlorate EPA 314.0	115		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11286286201B	Sample number(s): 6426120-6426128 UNSPK: 6426120 BKG: 6426120										
7a Perchlorate EPA 314.0	106		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11287621201A	Sample number(s): 6426111-6426119 UNSPK: 6426111 BKG: 6426111										
11a Anions by 300.0 - Fluoride	87		80-120			0.80	U	0.80	U	0 (1)	20
Batch number: 11287621201B	Sample number(s): 6426120-6426128 UNSPK: 6426120 BKG: 6426120										
11a Anions by 300.0 - Fluoride	77*		80-120			0.80	U	0.80	U	0 (1)	20
11a Anions by 300.0 - Nitrate	107		80-120			0.80	U	0.80	U	0 (1)	20
Batch number: 11286039401A	Sample number(s): 6426110-6426118 BKG: 6426118										
17a pH by 9045C						6.52		6.52		0	3
Batch number: 11286039401B	Sample number(s): 6426119-6426128 BKG: 6426119										
17a pH by 9045C						7.29		7.29		0	3
Batch number: 11285162401A	Sample number(s): 6426110-6426118 BKG: 6426118										
Moisture Content by 160.3						2.2		2.2		0 (1)	20

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Quality Control Summary

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Reported: 11/08/11 at 12:18 PM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11285162401B	Sample number(s): 6426119-6426128,6426131 BKG: 6426127								
Moisture Content by 160.3						6.6	5.9	11	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 21b. NDMA in Water
Batch number: 11278WAC026

	N-Nitrosodimethylamine-d6
6426129	131
6426130	267*
6426132	138
Blank	123
LCS	112
LCSD	127
Limits:	50-150

Analysis Name: 21a NDMA by 1625C
Batch number: 11283SLD026

	N-Nitrosodimethylamine-d6
6426126	196*
6426127	131
6426128	111
6426131	117
Blank	127
LCS	140
MS	173*
MSD	135
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11284SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6426110	98	98	97	94	88	84
6426111	98	99	101	97	90	87
6426112	98	98	102	95	87	84
6426113	98	98	98	97	90	84
6426114	97	98	96	94	85	81
6426115	97	97	100	95	88	85
6426116	99	99	98	96	87	84
6426117	93	94	101	92	86	84

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Client Name: CDM Federal Programs Corp. Group Number: 1269321
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Surrogate Quality Control

6426118	96	96	98	93	86	82
6426119	100	100	104	96	90	86
6426120	99	99	101	96	88	85
6426121	99	100	101	97	90	85
6426122	92	95	98	94	88	84
6426123	95	95	97	95	87	85
6426124	90	90	95	88	82	81
6426125	93	94	97	94	86	82
6426126	97	97	94	92	85	84
6426127	88	87	90	86	81	79
6426128	95	94	93	88	84	83
Blank	82	84	85	83	77	74
LCS	98	100	101	98	87	85
MS	96	97	102	97	89	84
MSD	96	96	97	93	85	82
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11285SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6426110	137*	86	107
6426111	108	92	97
6426112	116	92	101
6426113	105	79	146*
6426114	105	92	102
6426115	117	90	101
6426116	95	88	70
6426117	114	95	76
6426118	139*	80	86
6426119	113	90	65
6426120	221*	56	194*
6426121	113	89	72
6426122	109	94	71
6426123	95	88	72
6426124	100	88	69
6426125	99	89	69
6426126	104	87	74
6426127	101	90	74
6426128	76	69	53
Blank	102	91	91
LCS	111	91	91
MS	128	87	97
MSD	109	92	97
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11274A34B

	Trifluorotoluene-F
6426126	83
6426127	85
6426128	77
Blank	97
LCS	92
MS	96

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Quality Control Summary

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Reported: 11/08/11 at 12:18 PM

Surrogate Quality Control

MSD	98

Limits: 61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11279C20A

	Trifluorotoluene-F
6426133	86
Blank	86
LCS	111
LCSD	111

Limits: 63-135

Analysis Name: 20a Formaldehyde 8315A
Batch number: 112790001A

	Butyraldehyde
6426126	92
6426127	92
6426128	94
Blank	96
LCS	83
MS	92
MSD	80

Limits: 64-126

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 112830002A

	2,4-Dichlorophenylacetic acid
6426110	82
6426111	74
6426112	61
6426113	87
6426114	69
6426115	58
6426116	64
6426117	50
6426118	59
6426119	57
6426120	75
6426121	76
6426122	60
Blank	86
LCS	90
MS	61
MSD	49

Limits: 36-156

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112840033A

	Tetrachloro-m-xylene	Decachlorobiphenyl

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Quality Control Summary

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Surrogate Quality Control

6426110	89	89
6426111	108	110
6426112	97	107
6426113	103	105
6426114	65	70
6426115	106	117
6426116	80	84
6426117	116	188*
6426118	110	119
6426119	88	92
6426120	112	112
6426121	114	119
6426122	121	120
6426123	112	119
6426124	97	100
6426125	123	135*
6426126	155*	170*
6426127	109	99
6426128	106	115
Blank	91	103
LCS	91	104
LCSD	103	119
MS	82	88
MSD	88	90
Limits:	53-139	45-120

Analysis Name: 12a Pesticides by 8081A
Batch number: 112840037A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6426110	63	89
6426111	64	106
6426112	53	80
6426113	62	79
6426114	56	69
6426115	66	81
6426116	57	132*
6426117	112	137*
6426118	65	129*
6426119	79	115
6426120	69	80
6426121	58	97
6426122	59	114
Blank	67	130*
LCS	64	129*
MS	54	83
MSD	56	80
Limits:	50-130	20-120

Analysis Name: 18a Alcohols by 8015B
Batch number: 112760023A

	Acetone
6426126	95
6426127	93

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269321
Reported: 11/08/11 at 12:18 PM

Surrogate Quality Control

6426128	91
Blank	101
LCS	99
MS	99
MSD	93
Limits:	42-138

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112790037A

	n-Triacontane-d62
6426126	65
6426127	62
6426128	62
Blank	68
LCS	67
MS	68
MSD	69
Limits:	19-152

Analysis Name: 19a Glycols by 8015B
Batch number: 112790048A

	Tetramethylene glycol
6426126	73
6426127	74
6426128	74
Blank	83
LCS	84
MS	74
MSD	73
Limits:	29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112800012A

	Chlorobenzene	Orthoterphenyl
6426126	84	90
6426127	76	84
6426128	77	85
Blank	76	83
LCS	81	90
MS	80	88
MSD	76	87
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Gp# 1269321 sample# 6426110-33

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SS ONLY		Other Instructions and Notes
						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	
SL-008-SA8S-0.0-0.5	9/30/11	0920	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-008-SA8S-0.0-0.5	9/30/11	0920	SOIL	NONE	1-SS Sleeve			X	X								
SL-009-SA8S-0.0-0.5	9/30/11	1023	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-009-SA8S-0.0-0.5	9/30/11	1023	SOIL	NONE	1-SS Sleeve			X	X								
SL-010-SA8S-0.0-0.5	9/30/11	0945	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-010-SA8S-0.0-0.5	9/30/11	0945	SOIL	NONE	1-SS Sleeve			X	X								
SL-011-SA8S-0.0-0.5	9/30/11	0815	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-011-SA8S-0.0-0.5	9/30/11	0815	SOIL	NONE	1-SS Sleeve			X	X								
SL-012-SA8S-0.0-0.5	9/30/11	0800	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-012-SA8S-0.0-0.5	9/30/11	0800	SOIL	NONE	1-SS Sleeve			X	X								
SL-016-SA8S-0.0-0.5	9/30/11	1417	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-016-SA8S-0.0-0.5	9/30/11	1417	SOIL	NONE	1-SS Sleeve			X	X								
SL-017-SA8S-0.0-0.5	9/30/11	1347	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-017-SA8S-0.0-0.5	9/30/11	1347	SOIL	NONE	1-SS Sleeve			X	X								
SL-018-SA8S-0.0-0.5	9/30/11	1400	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-018-SA8S-0.0-0.5	9/30/11	1400	SOIL	NONE	1-SS Sleeve			X	X								
SL-019-SA8S-0.0-0.5	9/30/11	1040	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-019-SA8S-0.0-0.5	9/30/11	1040	SOIL	NONE	1-SS Sleeve			X	X								
SL-020-SA8S-0.0-0.5	9/30/11	1113	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-020-SA8S-0.0-0.5	9/30/11	1113	SOIL	NONE	1-SS Sleeve			X	X								
SL-021-SA8S-0.0-0.5	9/30/11	1130	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-021-SA8S-0.0-0.5	9/30/11	1130	SOIL	NONE	1-SS Sleeve			X	X								
SL-022-SA8S-0.0-0.5	9/30/11	0905	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-022-SA8S-0.0-0.5	9/30/11	0905	SOIL	NONE	1-SS Sleeve			X	X								
SL-023-SA8S-0.0-0.5	9/30/11	0845	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-023-SA8S-0.0-0.5	9/30/11	0845	SOIL	NONE	1-SS Sleeve			X	X								

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	09/30/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**	
	10/1/11 / 0945	8767 9857 4445; 8767 9857 4456	

The surface ~~SS~~ SS was added to the samples listed above. NLM 10/4/11

acct# 13013 Grp# 1269391 sample# 6426116-33

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-084-SA7-SB-0.0-1.0	9/30/11	1205	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-113-SA7-SB-0.0-1.0	9/30/11	1406	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-115-SA7-SB-0.5-1.5	9/30/11	1223	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-132-SA7-SB-4.5	9/30/11	0819	SOIL	NONE	2-Encores										X											
SL-132-SA7-SB-4.0-5.0	9/30/11	0823	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X			X	X	X	X	
SL-132-SA7-SB-8.0	9/30/11	0814	SOIL	NONE	2-Encores										X											
SL-132-SA7-SB-8.5-9.5	9/30/11	0810	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X			X	X	X	X	
SL-180-SA7-SB-2.5	9/30/11	0947	SOIL	NONE	2-Encores										X											
SL-180-SA7-SB-2.0-3.0	9/30/11	0950	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X			X	X	X	X	
FB-SA7-SB-093011	9/30/11	1240	WATER	NONE	1-1 liter amber														X							
EB-SA7-SB-093011	9/30/11	1245	WATER	NONE	1-1 liter amber														X							
TB-092911	9/30/11	1430	SOIL	NONE	1-4 oz. jar														X							
TB-092911	9/30/11	1430	WATER	NONE	1-1 liter amber														X							
TB-092911	9/30/11	1430	WATER	NONE	2-40mL vials										X											

Relinquished by: (*Signature*) — Date/Time: 09/30/2011 / 1630 — Received for Laboratory by: (*Signature*)

Laboratory: Lancaster Laboratories, Inc.

Received by: (*Signature*) — Date/Time: 9/30/11 1630 — Airbill No.(s): 8767 9857 4445; 8767 9857 4456

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 21, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/01/2011
Group Number: 1269323
SDG: DX146
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-022-SA8S-SS-0.0-0.5 Soil	6426145
SL-023-SA8S-SS-0.0-0.5 Soil	6426146
SL-084-SA7-SB-0.0-1.0 Soil	6426147
SL-113-SA7-SB-0.0-1.0 Soil	6426148
SL-115-SA7-SB-0.5-1.5 Soil	6426149
SL-132-SA7-SB-4.0-5.0 Soil	6426150
SL-132-SA7-SB-8.5-9.5 Soil	6426151
SL-180-SA7-SB-2.0-3.0 Soil	6426152

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-022-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SS-0.0-0.5

LLI Sample # SW 6426145
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:05

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4605 SDG#: DX146-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-022-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SS-0.0-0.5

LLI Sample # SW 6426145
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:05

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4605 SDG#: DX146-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0264	U	0.0264	1.05	1
11031	12378-PeCDD	40321-76-4	0.112	JB	0.0309	5.26	1
11031	123478-HxCDD	39227-28-6	0.0991	J	0.0297	5.26	1
11031	123678-HxCDD	57653-85-7	0.182	JQ	0.0327	5.26	1
11031	123789-HxCDD	19408-74-3	0.153	J	0.0283	5.26	1
11031	1234678-HpCDD	35822-46-9	3.60	JB	0.0328	5.26	1
11031	OCDD	3268-87-9	25.7	B	0.0310	10.5	1
11031	2378-TCDF	51207-31-9	0.128	JQ	0.0559	1.05	1
11031	12378-PeCDF	57117-41-6	0.0992	JBQ	0.0286	5.26	1
11031	23478-PeCDF	57117-31-4	0.165	JB	0.0276	5.26	1
11031	123478-HxCDF	70648-26-9	0.126	JBQ	0.0243	5.26	1
11031	123678-HxCDF	57117-44-9	0.102	JB	0.0223	5.26	1
11031	123789-HxCDF	72918-21-9	0.0240	U	0.0240	5.26	1
11031	234678-HxCDF	60851-34-5	0.130	JBQ	0.0220	5.26	1
11031	1234678-HpCDF	67562-39-4	0.777	JB	0.0181	5.26	1
11031	1234789-HpCDF	55673-89-7	0.0858	JB	0.0243	5.26	1
11031	OCDF	39001-02-0	1.23	JB	0.0256	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	74	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-022-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SS-0.0-0.5

LLI Sample # SW 6426145
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:05

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4605 SDG#: DX146-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-022-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-022-SA8S-SS-0.0-0.5

LLI Sample # SW 6426145
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:05

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4605 SDG#: DX146-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11283001	10/14/2011 08:28	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11283001	10/10/2011 14:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-023-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SS-0.0-0.5

LLI Sample # SW 6426146
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:45

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4606 SDG#: DX146-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-023-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SS-0.0-0.5

LLI Sample # SW 6426146
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:45

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4606 SDG#: DX146-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0466	JQ	0.0403	1.05	1
11031	12378-PeCDD	40321-76-4	0.0967	JB	0.0377	5.25	1
11031	123478-HxCDD	39227-28-6	0.128	JQ	0.0384	5.25	1
11031	123678-HxCDD	57653-85-7	0.310	J	0.0411	5.25	1
11031	123789-HxCDD	19408-74-3	0.333	JQ	0.0666	5.25	1
11031	1234678-HpCDD	35822-46-9	5.75	B	0.0488	5.25	1
11031	OCDD	3268-87-9	40.2	B	0.0346	10.5	1
11031	2378-TCDF	51207-31-9	0.474	J	0.0693	1.05	1
11031	12378-PeCDF	57117-41-6	0.116	JBQ	0.0368	5.25	1
11031	23478-PeCDF	57117-31-4	0.0340	U	0.0340	5.25	1
11031	123478-HxCDF	70648-26-9	0.186	JBQ	0.0295	5.25	1
11031	123678-HxCDF	57117-44-9	0.175	JB	0.0278	5.25	1
11031	123789-HxCDF	72918-21-9	0.0383	JBQ	0.0314	5.25	1
11031	234678-HxCDF	60851-34-5	0.183	JBQ	0.0287	5.25	1
11031	1234678-HpCDF	67562-39-4	1.01	JB	0.0312	5.25	1
11031	1234789-HpCDF	55673-89-7	0.0811	JBQ	0.0387	5.25	1
11031	OCDF	39001-02-0	1.63	JB	0.0310	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	47	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	89	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	78	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-023-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SS-0.0-0.5

LLI Sample # SW 6426146
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:45

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4606 SDG#: DX146-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-023-SA8S-SS-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA8S-SS-0.0-0.5

LLI Sample # SW 6426146
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:45

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4606 SDG#: DX146-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11283001	10/14/2011 09:24	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11283001	10/10/2011 14:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-084-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-084-SA7-SB-0.0-1.0

LLI Sample # SW 6426147
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:05

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4607 SDG#: DX146-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-084-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-084-SA7-SB-0.0-1.0

LLI Sample # SW 6426147
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:05

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4607 SDG#: DX146-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0390	J	0.0340	1.02	1
11031	12378-PeCDD	40321-76-4	0.0447	JB	0.0271	5.09	1
11031	123478-HxCDD	39227-28-6	0.0473	J	0.0235	5.09	1
11031	123678-HxCDD	57653-85-7	0.0561	JQ	0.0265	5.09	1
11031	123789-HxCDD	19408-74-3	0.0453	JQ	0.0407	5.09	1
11031	1234678-HpCDD	35822-46-9	0.374	JB	0.0230	5.09	1
11031	OCDD	3268-87-9	2.44	JB	0.0205	10.2	1
11031	2378-TCDF	51207-31-9	0.0243	U	0.0243	1.02	1
11031	12378-PeCDF	57117-41-6	0.0527	JB	0.0135	5.09	1
11031	23478-PeCDF	57117-31-4	0.106	JBQ	0.0138	5.09	1
11031	123478-HxCDF	70648-26-9	0.0709	JBQ	0.0205	5.09	1
11031	123678-HxCDF	57117-44-9	0.0683	JBQ	0.0168	5.09	1
11031	123789-HxCDF	72918-21-9	0.0466	JBQ	0.0243	5.09	1
11031	234678-HxCDF	60851-34-5	0.0603	JBQ	0.0127	5.09	1
11031	1234678-HpCDF	67562-39-4	0.144	JBQ	0.0189	5.09	1
11031	1234789-HpCDF	55673-89-7	0.0268	JBQ	0.0251	5.09	1
11031	OCDF	39001-02-0	0.212	JB	0.0345	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	47	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	44	26 - 152
13C12-123678-HxCDF	52	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	44	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	66	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-084-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-084-SA7-SB-0.0-1.0

LLI Sample # SW 6426147
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:05

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4607 SDG#: DX146-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-084-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-084-SA7-SB-0.0-1.0

LLI Sample # SW 6426147
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:05

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4607 SDG#: DX146-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11283001	10/14/2011 10:21	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11283001	10/10/2011 14:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-113-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA7-SB-0.0-1.0

LLI Sample # SW 6426148
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:06

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4608 SDG#: DX146-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-113-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA7-SB-0.0-1.0

LLI Sample # SW 6426148
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:06

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4608 SDG#: DX146-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0643	JQ	0.0266	1.11	1
11031	12378-PeCDD	40321-76-4	0.155	JB	0.0249	5.53	1
11031	123478-HxCDD	39227-28-6	0.0587	J	0.0240	5.53	1
11031	123678-HxCDD	57653-85-7	0.487	J	0.0241	5.53	1
11031	123789-HxCDD	19408-74-3	0.643	J	0.0234	5.53	1
11031	1234678-HpCDD	35822-46-9	0.662	JB	0.0255	5.53	1
11031	OCDD	3268-87-9	4.39	JB	0.0200	11.1	1
11031	2378-TCDF	51207-31-9	0.0416	JQ	0.0197	1.11	1
11031	12378-PeCDF	57117-41-6	0.156	JB	0.0135	5.53	1
11031	23478-PeCDF	57117-31-4	0.167	JB	0.0142	5.53	1
11031	123478-HxCDF	70648-26-9	0.149	JBQ	0.0185	5.53	1
11031	123678-HxCDF	57117-44-9	0.161	JB	0.0157	5.53	1
11031	123789-HxCDF	72918-21-9	0.0741	JB	0.0218	5.53	1
11031	234678-HxCDF	60851-34-5	0.0789	JBQ	0.0167	5.53	1
11031	1234678-HpCDF	67562-39-4	0.195	JBQ	0.0114	5.53	1
11031	1234789-HpCDF	55673-89-7	0.0386	JBQ	0.0204	5.53	1
11031	OCDF	39001-02-0	0.329	JB	0.0331	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	93	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	66	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-113-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA7-SB-0.0-1.0

LLI Sample # SW 6426148
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:06

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4608 SDG#: DX146-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-113-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-113-SA7-SB-0.0-1.0

LLI Sample # SW 6426148
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 14:06

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4608 SDG#: DX146-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11283001	10/14/2011 11:18	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11283001	10/10/2011 14:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-115-SA7-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-115-SA7-SB-0.5-1.5

LLI Sample # SW 6426149
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:23

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4609 SDG#: DX146-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-115-SA7-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-115-SA7-SB-0.5-1.5

LLI Sample # SW 6426149
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:23

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4609 SDG#: DX146-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0285 U	0.0285	1.04	1
11031	12378-PeCDD	40321-76-4	0.0468 JBQ	0.0307	5.20	1
11031	123478-HxCDD	39227-28-6	0.0265 U	0.0265	5.20	1
11031	123678-HxCDD	57653-85-7	0.313 J	0.0270	5.20	1
11031	123789-HxCDD	19408-74-3	0.434 J	0.0283	5.20	1
11031	1234678-HpCDD	35822-46-9	0.395 JB	0.0262	5.20	1
11031	OCDD	3268-87-9	3.13 JB	0.0248	10.4	1
11031	2378-TCDF	51207-31-9	0.0243 J	0.0220	1.04	1
11031	12378-PeCDF	57117-41-6	0.0864 JB	0.0135	5.20	1
11031	23478-PeCDF	57117-31-4	0.110 JBQ	0.0140	5.20	1
11031	123478-HxCDF	70648-26-9	0.0320 JBQ	0.0263	5.20	1
11031	123678-HxCDF	57117-44-9	0.199 JBQ	0.0192	5.20	1
11031	123789-HxCDF	72918-21-9	0.0431 JBQ	0.0208	5.20	1
11031	234678-HxCDF	60851-34-5	0.0565 JB	0.0157	5.20	1
11031	1234678-HpCDF	67562-39-4	0.130 JB	0.0101	5.20	1
11031	1234789-HpCDF	55673-89-7	0.0163 U	0.0163	5.20	1
11031	OCDF	39001-02-0	0.221 JB	0.0380	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	60	21 - 178
13C12-123478-HxCDF	39	26 - 152
13C12-123678-HxCDF	53	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	58	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	60	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-115-SA7-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-115-SA7-SB-0.5-1.5

LLI Sample # SW 6426149
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:23

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4609 SDG#: DX146-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-115-SA7-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-115-SA7-SB-0.5-1.5

LLI Sample # SW 6426149
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 12:23

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4609 SDG#: DX146-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11283001	10/14/2011 12:14	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11283001	10/10/2011 14:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-132-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-4.0-5.0

LLI Sample # SW 6426150
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:23

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4610 SDG#: DX146-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-132-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-4.0-5.0

LLI Sample # SW 6426150
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:23

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4610 SDG#: DX146-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0241	U	0.0241	1.02	1
11031	12378-PeCDD	40321-76-4	0.0449	JBQ	0.0226	5.09	1
11031	123478-HxCDD	39227-28-6	0.0415	JQ	0.0316	5.09	1
11031	123678-HxCDD	57653-85-7	0.239	J	0.0317	5.09	1
11031	123789-HxCDD	19408-74-3	0.187	JQ	0.0310	5.09	1
11031	1234678-HpCDD	35822-46-9	10.2	B	0.0505	5.09	1
11031	OCDD	3268-87-9	122	B	0.0526	10.2	1
11031	2378-TCDF	51207-31-9	0.0215	U	0.0215	1.02	1
11031	12378-PeCDF	57117-41-6	0.0365	JBQ	0.0140	5.09	1
11031	23478-PeCDF	57117-31-4	0.115	JBQ	0.0130	5.09	1
11031	123478-HxCDF	70648-26-9	0.0727	JBQ	0.0195	5.09	1
11031	123678-HxCDF	57117-44-9	0.0644	JBQ	0.0182	5.09	1
11031	123789-HxCDF	72918-21-9	0.0498	JBQ	0.0208	5.09	1
11031	234678-HxCDF	60851-34-5	0.0652	JBQ	0.0175	5.09	1
11031	1234678-HpCDF	67562-39-4	0.709	JB	0.0181	5.09	1
11031	1234789-HpCDF	55673-89-7	0.0713	JB	0.0251	5.09	1
11031	OCDF	39001-02-0	1.77	JB	0.0299	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	98	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	81	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-132-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-4.0-5.0

LLI Sample # SW 6426150
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:23

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4610 SDG#: DX146-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-132-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-4.0-5.0

LLI Sample # SW 6426150
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:23

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4610 SDG#: DX146-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11283001	10/14/2011 13:11	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11283001	10/10/2011 14:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-132-SA7-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-8.5-9.5

LLI Sample # SW 6426151
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:10

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4611 SDG#: DX146-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-132-SA7-SB-8.5-9.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-8.5-9.5

LLI Sample # SW 6426151
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:10

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4611 SDG#: DX146-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0427 U	0.0427	1.06	1
11031	12378-PeCDD	40321-76-4	0.0489 JBQ	0.0300	5.28	1
11031	123478-HxCDD	39227-28-6	0.0342 U	0.0342	5.28	1
11031	123678-HxCDD	57653-85-7	0.446 J	0.0332	5.28	1
11031	123789-HxCDD	19408-74-3	0.762 J	0.0307	5.28	1
11031	1234678-HpCDD	35822-46-9	2.70 JB	0.0493	5.28	1
11031	OCDD	3268-87-9	20.9 B	0.0287	10.6	1
11031	2378-TCDF	51207-31-9	0.0334 U	0.0334	1.06	1
11031	12378-PeCDF	57117-41-6	0.0636 JBQ	0.0168	5.28	1
11031	23478-PeCDF	57117-31-4	0.0637 JB	0.0180	5.28	1
11031	123478-HxCDF	70648-26-9	0.0579 JBQ	0.0257	5.28	1
11031	123678-HxCDF	57117-44-9	0.182 JB	0.0209	5.28	1
11031	123789-HxCDF	72918-21-9	0.110 JBQ	0.0243	5.28	1
11031	234678-HxCDF	60851-34-5	0.0422 JB	0.0198	5.28	1
11031	1234678-HpCDF	67562-39-4	0.364 JB	0.0153	5.28	1
11031	1234789-HpCDF	55673-89-7	0.102 JBQ	0.0267	5.28	1
11031	OCDF	39001-02-0	0.667 JB	0.0484	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	65	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-132-SA7-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-8.5-9.5

LLI Sample # SW 6426151
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:10

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4611 SDG#: DX146-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-132-SA7-SB-8.5-9.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-132-SA7-SB-8.5-9.5

LLI Sample # SW 6426151
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 08:10

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4611 SDG#: DX146-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11283001	10/14/2011 17:10	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11283001	10/10/2011 14:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-180-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-180-SA7-SB-2.0-3.0

LLI Sample # SW 6426152
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:50

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4612 SDG#: DX146-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-180-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-180-SA7-SB-2.0-3.0

LLI Sample # SW 6426152
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:50

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4612 SDG#: DX146-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0376	JQ	0.0366	1.02	1
11031	12378-PeCDD	40321-76-4	0.0258	U	0.0258	5.12	1
11031	123478-HxCDD	39227-28-6	0.0217	U	0.0217	5.12	1
11031	123678-HxCDD	57653-85-7	0.0787	JQ	0.0220	5.12	1
11031	123789-HxCDD	19408-74-3	0.127	JQ	0.0220	5.12	1
11031	1234678-HpCDD	35822-46-9	0.591	JBQ	0.0301	5.12	1
11031	OCDD	3268-87-9	2.78	JB	0.0195	10.2	1
11031	2378-TCDF	51207-31-9	0.0294	U	0.0294	1.02	1
11031	12378-PeCDF	57117-41-6	0.0278	JB	0.0159	5.12	1
11031	23478-PeCDF	57117-31-4	0.0980	JBQ	0.0169	5.12	1
11031	123478-HxCDF	70648-26-9	0.0426	JBQ	0.0168	5.12	1
11031	123678-HxCDF	57117-44-9	0.0179	JBQ	0.0140	5.12	1
11031	123789-HxCDF	72918-21-9	0.0730	JBQ	0.0155	5.12	1
11031	234678-HxCDF	60851-34-5	0.0712	JBQ	0.0134	5.12	1
11031	1234678-HpCDF	67562-39-4	0.191	JB	0.0102	5.12	1
11031	1234789-HpCDF	55673-89-7	0.0489	JBQ	0.0182	5.12	1
11031	OCDF	39001-02-0	0.252	JBQ	0.0377	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	97	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	68	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-180-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-180-SA7-SB-2.0-3.0

LLI Sample # SW 6426152
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:50

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4612 SDG#: DX146-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-180-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-180-SA7-SB-2.0-3.0

LLI Sample # SW 6426152
LLI Group # 1269323
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 09/30/2011 09:50

Submitted: 10/01/2011 09:45
Reported: 10/21/2011 20:32

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4612 SDG#: DX146-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11283001	10/14/2011 18:07	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11283001	10/10/2011 14:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11285162401B	10/12/2011 20:02	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269323
Reported: 10/21/11 at 08:32 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11285162401B	Sample number(s): 6426145-6426152								
Moisture Content by 160.3					102		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11283001	Sample number(s): 6426145-6426152								
2378-TCDD	0.0290 U	0.0290	1.00	ng/kg	98		67-158		
12378-PeCDD	0.0326 J	0.0224	5.00	ng/kg	101		70-142		
123478-HxCDD	0.0170 U	0.0170	5.00	ng/kg	98		70-164		
123678-HxCDD	0.0176 U	0.0176	5.00	ng/kg	98		76-134		
123789-HxCDD	0.0169 U	0.0169	5.00	ng/kg	96		64-162		
1234678-HpCDD	0.268 J	0.0221	5.00	ng/kg	96		70-140		
OCDD	0.392 J	0.0160	10.0	ng/kg	95		78-144		
2378-TCDF	0.0216 U	0.0216	1.00	ng/kg	98		75-158		
12378-PeCDF	0.0149 J	0.0125	5.00	ng/kg	97		80-134		
23478-PeCDF	0.0319 J	0.0127	5.00	ng/kg	93		68-160		
123478-HxCDF	0.0314 J	0.0139	5.00	ng/kg	96		72-134		
123678-HxCDF	0.0471 J	0.0114	5.00	ng/kg	95		84-130		
123789-HxCDF	0.0484 J	0.0132	5.00	ng/kg	96		78-130		
234678-HxCDF	0.0274 J	0.0107	5.00	ng/kg	96		70-156		
1234678-HpCDF	0.129 J	0.00980	5.00	ng/kg	93		82-122		
1234789-HpCDF	0.0187 J	0.0142	5.00	ng/kg	96		78-138		
OCDF	0.121 J	0.0323	10.0	ng/kg	96		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11285162401B	Sample number(s): 6426145-6426152 BKG: P426127								
Moisture Content by 160.3						6.6	5.9	11	20
Batch number: 11283001	Sample number(s): 6426145-6426152 UNSPK: P422605								
2378-TCDD	96	101	67-158	4	25				
12378-PeCDD	99	99	70-142	1	25				
123478-HxCDD	97	100	70-164	2	25				
123678-HxCDD	94	98	76-134	4	25				
123789-HxCDD	96	97	64-162	0	25				
1234678-HpCDD	95	99	70-140	4	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269323
Reported: 10/21/11 at 08:32 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
OCDD	95	169*	78-144	54*	25				
2378-TCDF	94	96	75-158	2	25				
12378-PeCDF	95	95	80-134	0	25				
23478-PeCDF	94	94	68-160	1	25				
123478-HxCDF	93	95	72-134	2	25				
123678-HxCDF	93	92	84-130	1	25				
123789-HxCDF	94	95	78-130	0	25				
234678-HxCDF	94	94	70-156	1	25				
1234678-HpCDF	91	91	82-122	0	25				
1234789-HpCDF	96	96	78-138	1	25				
OCDF	94	94	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11283001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6426145	73	65	62	67	69	74
6426146	76	71	69	72	71	76
6426147	70	64	44	52	67	44
6426148	79	67	64	76	70	65
6426149	70	60	39	53	64	58
6426150	77	72	69	75	77	76
6426151	72	65	56	67	67	65
6426152	74	67	55	68	68	68
Blank	80	72	62	74	76	74
MS	75	68	16*	15*	70	73
MSD	78	70	41	44	74	75
OPR	69	65	22	24	67	70
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6426145	79	71	74	68	81	78
6426146	77	77	78	73	78	77
6426147	71	65	66	69	82	75
6426148	95	65	66	76	86	86
6426149	76	59	60	70	82	84
6426150	88	76	81	76	85	87
6426151	89	63	65	72	78	81
6426152	92	64	68	77	83	87
Blank	92	74	78	82	92	92
MS	27	67	69	73	78	75
MSD	65	69	72	77	91	85
OPR	43	69	70	74	81	80

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1269323
Reported: 10/21/11 at 08:32 PM

Surrogate Quality Control

Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6426145	86	83	86	69	68	
6426146	47	86	89	77	71	
6426147	47	87	90	68	69	
6426148	85	89	93	71	76	
6426149	80	86	88	64	70	
6426150	85	92	98	76	76	
6426151	80	86	90	67	76	
6426152	82	90	97	69	78	
Blank	92	100	105	73	80	
MS	81	85	87	71	75	
MSD	96	91	94	74	79	
OPR	83	93	96	62	71	
Limits:	28-130	23-140	17-157	24-169	24-185	

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 GP# 1269323 sample# 6426145-52

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020BA7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	Other Instructions and Notes
SL-008-SA8S-0.0-0.5	9/30/11	0920	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-008-SA8S-0.0-0.5	9/30/11	0920	SOIL	NONE	1-SS Sleeve			X	X								
SL-009-SA8S-0.0-0.5	9/30/11	1023	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-009-SA8S-0.0-0.5	9/30/11	1023	SOIL	NONE	1-SS Sleeve			X	X								
SL-010-SA8S-0.0-0.5	9/30/11	0945	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-010-SA8S-0.0-0.5	9/30/11	0945	SOIL	NONE	1-SS Sleeve			X	X								
SL-011-SA8S-0.0-0.5	9/30/11	0815	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-011-SA8S-0.0-0.5	9/30/11	0815	SOIL	NONE	1-SS Sleeve			X	X								
SL-012-SA8S-0.0-0.5	9/30/11	0800	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-012-SA8S-0.0-0.5	9/30/11	0800	SOIL	NONE	1-SS Sleeve			X	X								
SL-016-SA8S-0.0-0.5	9/30/11	1417	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-016-SA8S-0.0-0.5	9/30/11	1417	SOIL	NONE	1-SS Sleeve			X	X								
SL-017-SA8S-0.0-0.5	9/30/11	1347	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-017-SA8S-0.0-0.5	9/30/11	1347	SOIL	NONE	1-SS Sleeve			X	X								
SL-018-SA8S-0.0-0.5	9/30/11	1400	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-018-SA8S-0.0-0.5	9/30/11	1400	SOIL	NONE	1-SS Sleeve			X	X								
SL-019-SA8S-0.0-0.5	9/30/11	1040	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-019-SA8S-0.0-0.5	9/30/11	1040	SOIL	NONE	1-SS Sleeve			X	X								
SL-020-SA8S-0.0-0.5	9/30/11	1113	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-020-SA8S-0.0-0.5	9/30/11	1113	SOIL	NONE	1-SS Sleeve			X	X								
SL-021-SA8S-0.0-0.5	9/30/11	1130	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-021-SA8S-0.0-0.5	9/30/11	1130	SOIL	NONE	1-SS Sleeve			X	X								
SL-022-SA8S-0.0-0.5	9/30/11	0905	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-022-SA8S-0.0-0.5	9/30/11	0905	SOIL	NONE	1-SS Sleeve			X	X								
SL-023-SA8S-0.0-0.5	9/30/11	0845	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X		X	X	
SL-023-SA8S-0.0-0.5	9/30/11	0845	SOIL	NONE	1-SS Sleeve			X	X								

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	09/30/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	10/1/11 / 0945	8767 9857 4445; 8767 9857 4456	

The Surface code SS was added to the samples above per PB. NLM 10/4/11

acct# 13013 Grp# 1269373 sample# 6426145-52

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 5 (SA5) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-084-SA7-SB-0.0-1.0	9/30/11	1205	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-113-SA7-SB-0.0-1.0	9/30/11	1406	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-115-SA7-SB-0.5-1.5	9/30/11	1223	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-132-SA7-SB-4.5	9/30/11	0819	SOIL	NONE	2-Encores										X											
SL-132-SA7-SB-4.0-5.0	9/30/11	0823	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X			X	X	X	X	
SL-132-SA7-SB-9.0	9/30/11	0814	SOIL	NONE	2-Encores										X											
SL-132-SA7-SB-8.5-9.5	9/30/11	0810	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X			X	X	X	X	
SL-180-SA7-SB-2.5	9/30/11	0947	SOIL	NONE	2-Encores										X											
SL-180-SA7-SB-2.0-3.0	9/30/11	0950	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X			X	X	X	X	
FB-SA7-SB-093011	9/30/11	1240	WATER	NONE	1-1 liter amber														X							
EB-SA7-SB-093011	9/30/11	1245	WATER	NONE	1-1 liter amber														X							
TB-092911	9/30/11	1430	SOIL	NONE	1-4 oz. jar														X							
TB-092911	9/30/11	1430	WATER	NONE	1-1 liter amber														X							
TB-092911	9/30/11	1430	WATER	NONE	2-40mL vials										X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	09/30/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	10/1/11 / 0845	8767 9857 4445; 8767 9857 4456	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 03, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/08/2011
Group Number: 1270365
SDG: DE264
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-046-SA7-SB-2.5-3.5 Soil	6432178
SL-137-SA7-SB-0.0-1.0 Soil	6432179
SL-138-SA7-SB-1.5-2.5 Soil	6432180
EB-SA7-SB-100711 Water	6432181
TB-100711 Water	6432182
TB-100711 Sand	6432183
TB-100711 Water	6432184

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

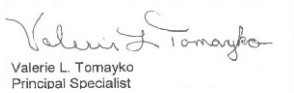
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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Valerie L. Tomayko
Principal Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-046-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA7-SB-2.5-3.5

LLI Sample # SW 6432178
LLI Group # 1270365
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/07/2011 11:15

Submitted: 10/08/2011 09:30
Reported: 11/03/2011 15:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6401 SDG#: DE264-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	23.2	J	17.3	34.6		1
	The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	70	U	70	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	70	U	70	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Sample Description: SL-046-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA7-SB-2.5-3.5

LLI Sample # SW 6432178
LLI Group # 1270365
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/07/2011 11:15

Submitted: 10/08/2011 09:30
Reported: 11/03/2011 15:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6401 SDG#: DE264-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.1	J	6.3	19		1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7		1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 13 ug/kg. The blank value was not subtracted from the analytical result.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		23.58
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-046-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA7-SB-2.5-3.5

LLI Sample # SW 6432178
LLI Group # 1270365
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/07/2011 11:15

Submitted: 10/08/2011 09:30
Reported: 11/03/2011 15:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6401 SDG#: DE264-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	63	U	63	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	84	U	84	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	84	U	84	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	130	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	130	10000000	1
10132	Nitroglycerin	55-63-0	840	U	840	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	84	U	84	130	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	130	10000000	1
10132	4-Nitrotoluene	99-99-0	84	U	84	130	10000000	1
10132	PETN	78-11-5	840	U	840	2,500	10000000	1
10132	RDX	121-82-4	52	U	52	130	10000000	1
10132	Tetryl	479-45-8	64	U	64	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	630	U	630	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1

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Sample Description: **SL-046-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA7-SB-2.5-3.5

LLI Sample # SW 6432178
LLI Group # 1270365
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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14420 Albemarle Point Place
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Chantilly VA 20151

E6401 SDG#: DE264-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C21-C30)	n.a.	1.5		0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	4.6		0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,700		6.22	20.6		1
07914	Boron	7440-42-8	0.370	U	0.370	5.14		1
01650	Calcium	7440-70-2	3,700		2.57	20.6		1
01654	Iron	7439-89-6	18,400		2.69	20.6		1
01656	Lithium	7439-93-2	27.0		0.64	2.1		1
01657	Magnesium	7439-95-4	4,360		0.453	10.3		1
06958	Manganese	7439-96-5	285		0.0370	0.514		1
10145	Phosphorus	7723-14-0	350		0.360	10.3		1
01662	Potassium	7440-09-7	2,930		11.6	51.4		1
01667	Sodium	7440-23-5	73.1	J	6.12	103		1
07968	Strontium	7440-24-6	11.6		0.0257	0.514		1
06969	Tin	7440-31-5	2.37	J	0.329	10.3		1
06970	Titanium	7440-32-6	1,190		0.0730	1.03		1
10146	Zirconium	7440-67-7	1.45	J	0.473	5.14		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-046-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA7-SB-2.5-3.5

LLI Sample # SW 6432178
LLI Group # 1270365
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/07/2011 11:15

Submitted: 10/08/2011 09:30
Reported: 11/03/2011 15:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6401 SDG#: DE264-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.124	J	0.0747	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.79		0.0807	0.404		2
06126	Barium	7440-39-3	118		0.107	0.404		2
06127	Beryllium	7440-41-7	0.581		0.0161	0.101		2
06128	Cadmium	7440-43-9	0.112		0.0444	0.101		2
06131	Chromium	7440-47-3	19.2		0.121	0.404		2
06132	Cobalt	7440-48-4	7.36		0.0202	0.101		2
06133	Copper	7440-50-8	9.21		0.0807	0.404		2
06135	Lead	7439-92-1	5.26		0.0103	0.202		2
06138	Molybdenum	7439-98-7	0.528		0.0504	0.101		2
06139	Nickel	7440-02-0	14.0		0.101	0.404		2
06141	Selenium	7782-49-2	0.0892	J	0.0585	0.404		2
06142	Silver	7440-22-4	0.0320	J	0.0143	0.101		2
06145	Thallium	7440-28-0	0.324		0.0303	0.101		2
06148	Vanadium	7440-62-2	39.9		0.0222	0.101		2
06149	Zinc	7440-66-6	78.9		0.565	3.03		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0072	U	0.0072	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.83	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.83	U	0.83	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.49		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.31		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-046-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA7-SB-2.5-3.5

LLI Sample # SW 6432178
LLI Group # 1270365
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/07/2011 11:15

Submitted: 10/08/2011 09:30
Reported: 11/03/2011 15:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6401 SDG#: DE264-01

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-046-SA7-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11285SLG026	10/17/2011 19:50	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11286SLA026	10/20/2011 00:04	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11286SLB026	10/15/2011 01:43	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11285SLG026	10/13/2011 06:25	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11286SLB026	10/14/2011 02:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11286SLA026	10/13/2011 17:45	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11280A34B	10/11/2011 20:58	Laura M Krieger	23.58
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128125799	10/08/2011 12:48	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128125799	10/08/2011 12:48	Christopher D Meeks	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112850002A	10/14/2011 11:46	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112840001A	10/12/2011 20:40	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112850024A	10/19/2011 10:06	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112850024A	10/13/2011 11:30	Denise L Trimby	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112840001A	10/11/2011 13:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112850002A	10/12/2011 15:15	Wanda F Oswald	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112830016A	10/11/2011 21:25	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112870018A	10/17/2011 23:13	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112810031A	10/11/2011 15:08	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112860009A	10/14/2011 23:38	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112860009A	10/13/2011 14:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112810031A	10/10/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112830016A	10/11/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112870018A	10/14/2011 17:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112935708004	10/21/2011 08:29	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112835708001	10/19/2011 04:04	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112835708001	10/19/2011 04:04	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112925708004	10/20/2011 13:00	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112835708001	10/19/2011 04:04	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112925708004	10/20/2011 13:00	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112835708001	10/19/2011 04:04	John W Yanzuk II	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-046-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA7-SB-2.5-3.5

LLI Sample # SW 6432178
LLI Group # 1270365
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/07/2011 11:15

Submitted: 10/08/2011 09:30
Reported: 11/03/2011 15:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6401 SDG#: DE264-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	112835708001	10/19/2011 04:04	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112835708001	10/19/2011 04:04	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112835708001	10/19/2011 04:04	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112835708001	10/19/2011 04:04	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112835708001	10/19/2011 04:04	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112835708001	10/19/2011 04:04	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112835708001	10/19/2011 04:04	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112831026001A	10/11/2011 09:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112831026001A	10/11/2011 09:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112831026001D	10/11/2011 09:31	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112831026001A	10/11/2011 09:31	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112831026001A	10/11/2011 09:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112831026001A	10/11/2011 09:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112831026001A	10/11/2011 09:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112831026001A	10/11/2011 09:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112831026001A	10/11/2011 09:31	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112831026001C	10/11/2011 09:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112831026001A	10/11/2011 09:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112831026001B	10/11/2011 09:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112831026001A	10/11/2011 09:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112831026001A	10/11/2011 09:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112831026001A	10/11/2011 09:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112831026001A	10/11/2011 09:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112835711001	10/11/2011 08:33	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112835708001	10/10/2011 20:36	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112925708004	10/19/2011 22:17	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112935708004	10/20/2011 22:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112831026001	10/10/2011 20:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112835711001	10/10/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11290495201B	10/19/2011 09:11	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11290495201B	10/19/2011 09:11	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11292621201B	10/25/2011 06:23	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11291243201A	10/20/2011 10:53	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11290102201A	10/17/2011 20:26	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11290495201B	10/17/2011 22:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11292621201B	10/19/2011 07:15	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11290102201A	10/17/2011 16:45	Carolyn M Mastropietro	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-046-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA7-SB-2.5-3.5

LLI Sample # SW 6432178
LLI Group # 1270365
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/07/2011 11:15

Submitted: 10/08/2011 09:30
Reported: 11/03/2011 15:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6401 SDG#: DE264-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	17a pH by 9045C	SW-846 9045C modified	1	11292039401A	10/19/2011 11:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11291162401B	10/18/2011 21:20	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-137-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA7-SB-0.0-1.0

LLI Sample # SW 6432179
LLI Group # 1270365
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/07/2011 11:25

Submitted: 10/08/2011 09:30
Reported: 11/03/2011 15:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6402 SDG#: DE264-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	64	J	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	140	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							

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Sample Description: **SL-137-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA7-SB-0.0-1.0

LLI Sample # SW 6432179
LLI Group # 1270365
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/07/2011 11:25

Submitted: 10/08/2011 09:30
Reported: 11/03/2011 15:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6402 SDG#: DE264-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	J	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.3	J	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	4.6		0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.0	J	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.1	J	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	2.0		0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	2.7		0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.89	J	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	1.1	J	0.71	1.8		1
10138	Pyrene	129-00-0	2.3		0.71	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		22.52
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1

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Sample Description: **SL-137-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA7-SB-0.0-1.0

LLI Sample # SW 6432179
LLI Group # 1270365
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/07/2011 11:25

Submitted: 10/08/2011 09:30
Reported: 11/03/2011 15:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6402 SDG#: DE264-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.1	U	2.1	6.4		5
10199	EFH (C15-C20)	n.a.	3.7	J	2.1	6.4		5
10199	EFH (C21-C30)	n.a.	23		2.1	6.4		5
10199	EFH (C30 - C40)	n.a.	76		2.1	6.4		5
10199	EFH (C8-C11)	n.a.	2.1	U	2.1	6.4		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,200		6.26	20.7		1
07914	Boron	7440-42-8	0.373	U	0.373	5.18		1
01650	Calcium	7440-70-2	2,480		2.59	20.7		1
01654	Iron	7439-89-6	18,600		2.68	20.5		1
01656	Lithium	7439-93-2	25.3		0.64	2.1		1
01657	Magnesium	7439-95-4	4,050		0.451	10.3		1
06958	Manganese	7439-96-5	271		0.0373	0.518		1
10145	Phosphorus	7723-14-0	365		0.362	10.4		1
01662	Potassium	7440-09-7	3,040		11.7	51.8		1
01667	Sodium	7440-23-5	69.5	J	6.16	104		1
07968	Strontium	7440-24-6	12.8		0.0259	0.518		1
06969	Tin	7440-31-5	2.36	J	0.331	10.4		1
06970	Titanium	7440-32-6	1,170		0.0735	1.04		1
10146	Zirconium	7440-67-7	1.48	J	0.476	5.18		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-137-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA7-SB-0.0-1.0

LLI Sample # SW 6432179
LLI Group # 1270365
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/07/2011 11:25

Submitted: 10/08/2011 09:30
Reported: 11/03/2011 15:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6402 SDG#: DE264-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.252		0.0789	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.01		0.0853	0.426		2
06126	Barium	7440-39-3	126		0.113	0.426		2
06127	Beryllium	7440-41-7	0.610		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.230		0.0469	0.107		2
06131	Chromium	7440-47-3	20.6		0.128	0.426		2
06132	Cobalt	7440-48-4	6.87		0.0213	0.107		2
06133	Copper	7440-50-8	10.6		0.0853	0.426		2
06135	Lead	7439-92-1	9.96		0.0109	0.213		2
06138	Molybdenum	7439-98-7	0.469		0.0533	0.107		2
06139	Nickel	7440-02-0	13.4		0.107	0.426		2
06141	Selenium	7782-49-2	0.0953	J	0.0618	0.426		2
06142	Silver	7440-22-4	0.0343	J	0.0151	0.107		2
06145	Thallium	7440-28-0	0.325		0.0320	0.107		2
06148	Vanadium	7440-62-2	39.2		0.0235	0.107		2
06149	Zinc	7440-66-6	99.1		0.597	3.20		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0104	J	0.0073	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.86	U	0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.25	J	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.59		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-137-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA7-SB-0.0-1.0

LLI Sample # SW 6432179
LLI Group # 1270365
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/07/2011 11:25

Submitted: 10/08/2011 09:30
Reported: 11/03/2011 15:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6402 SDG#: DE264-02

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-137-SA7-SB-1.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11286SLA026	10/20/2011 00:29	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11286SLB026	10/15/2011 02:15	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11286SLB026	10/14/2011 02:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11286SLA026	10/13/2011 17:45	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11280A34B	10/11/2011 21:34	Laura M Krieger	22.52
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128125799	10/08/2011 12:49	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128125799	10/08/2011 12:50	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112850024A	10/19/2011 10:25	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112850024A	10/13/2011 11:30	Denise L Trimby	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112830016A	10/11/2011 21:42	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112870018A	10/17/2011 23:26	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112810031A	10/11/2011 22:24	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112860009A	10/15/2011 04:48	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112860009A	10/13/2011 14:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112810031A	10/10/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112830016A	10/11/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112870018A	10/14/2011 17:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112935708004	10/21/2011 08:33	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112835708001	10/19/2011 04:08	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112835708001	10/19/2011 04:08	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112925708004	10/20/2011 13:04	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112835708001	10/19/2011 04:08	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112925708004	10/20/2011 13:04	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112835708001	10/19/2011 04:08	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112835708001	10/19/2011 04:08	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112835708001	10/19/2011 04:08	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112835708001	10/19/2011 04:08	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112835708001	10/19/2011 04:08	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112835708001	10/19/2011 04:08	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112835708001	10/19/2011 04:08	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112835708001	10/19/2011 04:08	John W Yanzuk II	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-137-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA7-SB-0.0-1.0

LLI Sample # SW 6432179
LLI Group # 1270365
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/07/2011 11:25

Submitted: 10/08/2011 09:30
Reported: 11/03/2011 15:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6402 SDG#: DE264-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112831026001A	10/11/2011 09:40	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112831026001A	10/11/2011 09:40	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112831026001D	10/11/2011 09:40	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112831026001A	10/11/2011 09:40	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112831026001A	10/11/2011 09:40	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112831026001A	10/11/2011 09:40	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112831026001A	10/11/2011 09:40	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112831026001A	10/11/2011 09:40	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112831026001A	10/11/2011 09:40	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112831026001C	10/11/2011 09:40	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112831026001A	10/11/2011 09:40	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112831026001B	10/11/2011 09:40	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112831026001A	10/11/2011 09:40	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112831026001A	10/11/2011 09:40	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112831026001A	10/11/2011 09:40	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112831026001A	10/11/2011 09:40	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112835711001	10/11/2011 08:34	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112835708001	10/10/2011 20:36	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112925708004	10/19/2011 22:17	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112935708004	10/20/2011 22:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112831026001	10/10/2011 20:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112835711001	10/10/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11290495201B	10/19/2011 09:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11292621201B	10/25/2011 07:55	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11291243201A	10/20/2011 11:13	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11290102201A	10/17/2011 20:27	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11290495201B	10/17/2011 22:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11292621201B	10/19/2011 07:15	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11290102201A	10/17/2011 16:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11292039401A	10/19/2011 11:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11286162401B	10/13/2011 20:54	Scott W Freisher	1

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Analysis Report

Sample Description: SL-138-SA7-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA7-SB-1.5-2.5

LLI Sample # SW 6432180
LLI Group # 1270365
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/07/2011 10:35

Submitted: 10/08/2011 09:30
Reported: 11/03/2011 15:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6403 SDG#: DE264-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	22	J	20	400		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-138-SA7-SB-1.5-2.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA7-SB-1.5-2.5

LLI Sample # SW 6432180
LLI Group # 1270365
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/07/2011 10:35

Submitted: 10/08/2011 09:30
Reported: 11/03/2011 15:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6403 SDG#: DE264-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	20	U	20	200		1
04688	Tetralin	119-64-2	200	U	200	200		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	2.7		0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	2.7		0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	4.2		0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	1.1	J	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	2.0	J	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	3.4		0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	3.6		0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.0	J	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0		1
10138	Pyrene	129-00-0	4.4		0.79	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		21.22
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-138-SA7-SB-1.5-2.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA7-SB-1.5-2.5

LLI Sample # SW 6432180
LLI Group # 1270365
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/07/2011 10:35

Submitted: 10/08/2011 09:30
Reported: 11/03/2011 15:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6403 SDG#: DE264-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	590		1
10501	Isopropanol	67-63-0	120	U	120	590		1
10501	Methanol	67-56-1	120	U	120	590		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.9	U	5.9	12		1
08283	Ethylene glycol	107-21-1	5.9	U	5.9	12		1
08283	Propylene glycol	57-55-6	5.9	U	5.9	12		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.2		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.2		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	2.7		0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	8.2		0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,200		6.97	23.0		1
07914	Boron	7440-42-8	0.427	U	0.427	5.93		1
01650	Calcium	7440-70-2	2,840		2.97	23.7		1
01654	Iron	7439-89-6	17,800		3.04	23.3		1
01656	Lithium	7439-93-2	27.1		0.74	2.4		1
01657	Magnesium	7439-95-4	4,380		0.512	11.6		1
06958	Manganese	7439-96-5	296		0.0427	0.593		1
10145	Phosphorus	7723-14-0	423		0.415	11.9		1
01662	Potassium	7440-09-7	3,180		13.4	59.3		1
01667	Sodium	7440-23-5	82.0	J	7.06	119		1
07968	Strontium	7440-24-6	14.7		0.0297	0.593		1
06969	Tin	7440-31-5	2.85	J	0.380	11.9		1
06970	Titanium	7440-32-6	1,230		0.0842	1.19		1
10146	Zirconium	7440-67-7	1.74	J	0.546	5.93		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-138-SA7-SB-1.5-2.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA7-SB-1.5-2.5

LLI Sample # SW 6432180
LLI Group # 1270365
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/07/2011 10:35

Submitted: 10/08/2011 09:30
Reported: 11/03/2011 15:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6403 SDG#: DE264-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.386		0.0844	0.228		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.71		0.0912	0.456		2
06126	Barium	7440-39-3	125		0.121	0.456		2
06127	Beryllium	7440-41-7	0.671		0.0182	0.114		2
06128	Cadmium	7440-43-9	0.271		0.0502	0.114		2
06131	Chromium	7440-47-3	23.7		0.137	0.456		2
06132	Cobalt	7440-48-4	7.48		0.0228	0.114		2
06133	Copper	7440-50-8	12.0		0.0912	0.456		2
06135	Lead	7439-92-1	12.1		0.0116	0.228		2
06138	Molybdenum	7439-98-7	0.610		0.0570	0.114		2
06139	Nickel	7440-02-0	14.8		0.114	0.456		2
06141	Selenium	7782-49-2	0.0978	J	0.0662	0.456		2
06142	Silver	7440-22-4	0.0403	J	0.0162	0.114		2
06145	Thallium	7440-28-0	0.382		0.0342	0.114		2
06148	Vanadium	7440-62-2	44.2		0.0251	0.114		2
06149	Zinc	7440-66-6	117		0.639	3.42		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0084	J	0.0082	0.117		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.94	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7	U	10.7	35.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.66	J	0.24	1.2		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.21	U	0.21	0.59		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.60		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-138-SA7-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA7-SB-1.5-2.5

LLI Sample # SW 6432180
LLI Group # 1270365
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/07/2011 10:35

Submitted: 10/08/2011 09:30
Reported: 11/03/2011 15:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6403 SDG#: DE264-03

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-138-SA7-SB-2.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11286SLA026	10/20/2011 00:55	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11286SLB026	10/15/2011 02:46	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11286SLB026	10/14/2011 02:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11286SLA026	10/13/2011 17:45	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11280A34B	10/11/2011 22:10	Laura M Krieger	21.22
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128125799	10/08/2011 12:51	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128125799	10/08/2011 12:51	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112850024A	10/19/2011 10:44	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112850024A	10/13/2011 11:30	Denise L Trimby	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112830016A	10/11/2011 21:58	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112870018A	10/17/2011 23:39	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112810031A	10/11/2011 15:36	Heather E Williams	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112860009A	10/15/2011 00:02	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112860009A	10/13/2011 14:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112810031A	10/10/2011 14:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112830016A	10/11/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112870018A	10/14/2011 17:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112935708004	10/21/2011 08:37	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112835708001	10/19/2011 04:12	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112835708001	10/19/2011 04:12	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112925708004	10/20/2011 13:08	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112835708001	10/19/2011 04:12	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112925708004	10/20/2011 13:08	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112835708001	10/19/2011 04:12	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112835708001	10/19/2011 04:12	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112835708001	10/19/2011 04:12	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112835708001	10/19/2011 04:12	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112835708001	10/19/2011 04:12	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112835708001	10/19/2011 04:12	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112835708001	10/19/2011 04:12	John W Yanzuk II	1
10146	Zirconium	SW-846 6010B	1	112835708001	10/19/2011 04:12	John W Yanzuk II	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-138-SA7-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-138-SA7-SB-1.5-2.5

LLI Sample # SW 6432180
LLI Group # 1270365
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/07/2011 10:35

Submitted: 10/08/2011 09:30
Reported: 11/03/2011 15:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6403 SDG#: DE264-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06124	Antimony	SW-846 6020	1	112831026001A	10/11/2011 09:43	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112831026001A	10/11/2011 09:43	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112831026001D	10/11/2011 09:43	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112831026001A	10/11/2011 09:43	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112831026001A	10/11/2011 09:43	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112831026001A	10/11/2011 09:43	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112831026001A	10/11/2011 09:43	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112831026001A	10/11/2011 09:43	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112831026001A	10/11/2011 09:43	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112831026001C	10/11/2011 09:43	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112831026001A	10/11/2011 09:43	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112831026001B	10/11/2011 09:43	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112831026001A	10/11/2011 09:43	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112831026001A	10/11/2011 09:43	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112831026001A	10/11/2011 09:43	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112831026001A	10/11/2011 09:43	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112835711001	10/11/2011 08:35	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112835708001	10/10/2011 20:36	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112925708004	10/19/2011 22:17	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	3	112935708004	10/20/2011 22:07	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112831026001	10/10/2011 20:37	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112835711001	10/10/2011 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11290495201B	10/19/2011 10:00	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11292621201B	10/25/2011 08:18	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11291243201A	10/20/2011 11:20	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11290102201A	10/17/2011 20:30	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11290495201B	10/17/2011 22:30	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11292621201B	10/19/2011 07:15	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11290102201A	10/17/2011 16:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11292039401A	10/19/2011 11:40	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11286162401B	10/13/2011 20:54	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB-SA7-SB-100711 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-100711

LLI Sample # WW 6432181
LLI Group # 1270365
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/07/2011 14:00

Submitted: 10/08/2011 09:30
Reported: 11/03/2011 15:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6404 SDG#: DE264-04EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/l	ng/l	ng/l	ng/l	
10962	N-Nitrosodimethylamine	62-75-9	0.589 J	0.475	0.951		1

The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11284WAA026	10/13/2011 17:27	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11284WAA026	10/11/2011 15:25	Wanda F Oswald	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-100711 Water
SSFL Area IV Collocated Soil Sampling
TB-100711

LLI Sample # WW 6432182
LLI Group # 1270365
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/07/2011 08:00

Submitted: 10/08/2011 09:30
Reported: 11/03/2011 15:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6405 SDG#: DE264-05TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/l**	**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	0.487 U	0.487	0.975		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11284WAA026	10/13/2011 17:46	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11284WAA026	10/11/2011 15:25	Wanda F Oswald	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-100711 Sand**
SSFL Area IV Collocated Soil Sampling
TB-100711

LLI Sample # SW 6432183
LLI Group # 1270365
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/07/2011 08:00

Submitted: 10/08/2011 09:30
Reported: 11/03/2011 15:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6406 SDG#: DE264-06TB

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	16.5	U	16.5	32.9		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.50	U	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11285SLG026	10/17/2011 21:07	Matthew S Woods	1
11630	NDMA Soil Microwave	SW-846 3546	1	11285SLG026	10/13/2011 06:25	Roman Kuropatkin	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11286162401B	10/13/2011 20:54	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-100711 Water
SSFL Area IV Collocated Soil Sampling
TB-100711

LLI Sample # WW 6432184
LLI Group # 1270365
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/07/2011 08:00

Submitted: 10/08/2011 09:30
Reported: 11/03/2011 15:24

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6407 SDG#: DE264-07TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11285A20A	10/13/2011	16:01	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11285A20A	10/13/2011	16:01	Marie D John	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270365
Reported: 11/03/11 at 03:24 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11284WAA026	Sample number(s): 6432181-6432182									
N-Nitrosodimethylamine	0.500	U	0.500	1.00	ng/l	96	94	70-130	2	30
Batch number: 11285SLG026	Sample number(s): 6432178,6432183									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	98		70-130		
Batch number: 11286SLA026	Sample number(s): 6432178-6432180									
Aniline	170 U		170.	500	ug/kg	76		20-115		
Benzidine	1,200 U		1,200.	3,300	ug/kg	36		15-121		
Benzoic acid	170 U		170.	500	ug/kg	93		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	96		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	100		73-114		
Di-n-butylphthalate	17	U	17.	170	ug/kg	94		79-112		
Carbazole	17	U	17.	170	ug/kg	94		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	101		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	36		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	99		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	96		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	95		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	74		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	95		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	97		74-115		
Dibenzofuran	17	U	17.	170	ug/kg	92		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	84		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	83		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	84		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	59		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	99		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	100		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	105		83-120		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	82		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	78		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	103		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	103		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	100		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	96		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	102		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	94		65-117		
Hexachlorocyclopentadiene	170		170.	500	ug/kg	97		46-115		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270365
Reported: 11/03/11 at 03:24 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Hexachloroethane	17 U	U	17.	170	ug/kg	84		61-109		
Isophorone	17	U	17.	170	ug/kg	101		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	99		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	97		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	100		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	93		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	75		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	102		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	100		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	87		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	94		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	97		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	97		51-117		
Phenol	17	U	17.	170	ug/kg	100		58-112		
Tetralin	170	U	170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	92		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	103		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	100		78-111		
Batch number: 11286SLB026	Sample number(s): 6432178-6432180									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	97		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	90		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	99		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	103		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	100		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	111		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	104		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	97		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	122		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	125		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	98		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	110		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	107		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	102		79-121		
Bis(2-Ethylhexyl)phthalate	13	J	6.0	18	ug/kg	141		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	107		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	100		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	109		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	92		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	90		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	90		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	95		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	128		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	98		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	100		72-119		
Batch number: 11280A34B	Sample number(s): 6432178-6432180									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	76		67-119		
Batch number: 11285A20A	Sample number(s): 6432184									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	100	75-135	0	30
Batch number: 112850002A	Sample number(s): 6432178									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	111		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270365
Reported: 11/03/11 at 03:24 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	110		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	96	98	54-134	2	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	96	98	54-134	2	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	113		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	104		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	109		80-120		
HMX	100 U		100.	300	ug/kg	95		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	107		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	90		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	105		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	111		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	104		80-120		
PETN	800 U		800.	2,400	ug/kg	105		80-120		
RDX	50	U	50.	120	ug/kg	105		75-131		
Tetryl	61	U	61.	120	ug/kg	107		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	108		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	111		80-120		
Batch number: 112840001A	Sample number(s): 6432178									
20a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	117		80-126		
Batch number: 112850024A	Sample number(s): 6432178-6432180									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	74	82	36-106	11	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	88		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	109		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112830016A	Sample number(s): 6432178-6432180									
Ethanol	100 U		100.	500	ug/kg	92		71-129		
Isopropanol	100 U		100.	500	ug/kg	89		75-125		
Methanol	100 U		100.	500	ug/kg	92		68-129		
Batch number: 112870018A	Sample number(s): 6432178-6432180									
Diethylene glycol	5.0	U	5.0	10	mg/kg	94		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	95		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	84		67-131		
Batch number: 112810031A	Sample number(s): 6432178-6432180									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	87		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	90		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	88		69-109		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270365
Reported: 11/03/11 at 03:24 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 112860009A	Sample number(s): 6432178-6432180									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	96		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	99		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	100		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	84		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	85		49-107		
Batch number: 112831026001A	Sample number(s): 6432178-6432180									
Antimony	0.0740	U	0.0740	0.200	mg/kg	132		40-227		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	104		83-111		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	104		84-112		
Cadmium	0.0440	U	0.0440	0.100	mg/kg	111		83-111		
Chromium	0.120	U	0.120	0.400	mg/kg	117		77-123		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	107		85-114		
Copper	0.0800	U	0.0800	0.400	mg/kg	108		81-110		
Lead	0.0102	U	0.0102	0.200	mg/kg	103		84-112		
Nickel	0.100	U	0.100	0.400	mg/kg	104		81-110		
Silver	0.0142	U	0.0142	0.100	mg/kg	105		83-112		
Thallium	0.0300	U	0.0300	0.100	mg/kg	103		82-112		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	108		76-110		
Zinc	0.560	U	0.560	3.00	mg/kg	106		82-110		
Batch number: 112831026001B	Sample number(s): 6432178-6432180									
Selenium	0.0580	U	0.0580	0.400	mg/kg	104		79-110		
Batch number: 112831026001C	Sample number(s): 6432178-6432180									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	105		80-110		
Batch number: 112831026001D	Sample number(s): 6432178-6432180									
Barium	0.106	U	0.106	0.400	mg/kg	104		83-110		
Batch number: 112835708001	Sample number(s): 6432178-6432180									
Boron	0.360	U	0.360	5.00	mg/kg	104		83-110		
Calcium	8.18	J	2.50	20.0	mg/kg	105		81-110		
Lithium	0.62	U	0.62	2.0	mg/kg	103		80-120		
Manganese	0.0400	J	0.0360	0.500	mg/kg	107		85-116		
Phosphorus	1.24	J	0.350	10.0	mg/kg	106		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	110		71-110		
Sodium	5.95	U	5.95	100	mg/kg	109		76-110		
Strontium	0.0440	J	0.0250	0.500	mg/kg	107		84-110		
Tin	1.46	J	0.320	10.0	mg/kg	101		86-120		
Titanium	0.0710	U	0.0710	1.00	mg/kg	98		80-120		
Zirconium	0.460	U	0.460	5.00	mg/kg	105		80-120		
Batch number: 112835711001	Sample number(s): 6432178-6432180									
Mercury	0.0067	U	0.0067	0.0953	mg/kg	103		83-119		
Batch number: 112925708004	Sample number(s): 6432178-6432180									
Iron	2.61	U	2.61	20.0	mg/kg	110		57-110		
Magnesium	0.440	U	0.440	10.0	mg/kg	107		68-110		
Batch number: 112935708004	Sample number(s): 6432178-6432180									
Aluminum	6.05	U	6.05	20.0	mg/kg	94		40-127		
Batch number: 11290102201A	Sample number(s): 6432178-6432180									
16a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	100		80-120		
Batch number: 11290495201B	Sample number(s): 6432178-6432180									

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Quality Control Summary

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	104		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	105		90-110		
Batch number: 11291243201A	Sample number(s): 6432178-6432180									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	81		80-120		
Batch number: 11292621201B	Sample number(s): 6432178-6432180									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	106		85-115		
Batch number: 11292039401A	Sample number(s): 6432178-6432180									
17a pH by 9045C						100		95-105		
Batch number: 11286162401B	Sample number(s): 6432179-6432180,6432183									
Moisture Content by 160.3						100		80-120		
Batch number: 11291162401B	Sample number(s): 6432178									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11285SLG026	Sample number(s): 6432178,6432183 UNSPK: 6432178								
N-Nitrosodimethylamine	89	105	70-130	16	30				
Batch number: 11286SLA026	Sample number(s): 6432178-6432180 UNSPK: P431133								
Aniline	77	85	18-116	9	30				
Benzidine	0*	0*	35-141	0	30				
Benzoic acid	93	100	10-173	7	30				
Benzyl alcohol	99	105	67-115	6	30				
4-Bromophenyl-phenylether	99	108	67-129	9	30				
Di-n-butylphthalate	91	97	67-123	7	30				
Carbazole	90	94	64-120	5	30				
4-Chloro-3-methylphenol	99	106	62-122	7	30				
4-Chloroaniline	56	44	13-107	26	30				
bis(2-Chloroethoxy)methane	98	107*	75-104	9	30				
bis(2-Chloroethyl)ether	99	105	60-116	6	30				
bis(2-Chloroisopropyl)ether	98	102	55-142	5	30				
2-Chloronaphthalene	71	74	50-141	5	30				
2-Chlorophenol	97	104	73-121	7	30				
4-Chlorophenyl-phenylether	97	104	80-109	7	30				
Dibenzofuran	91	99	71-112	8	30				
1,2-Dichlorobenzene	86	92	66-108	6	30				
1,3-Dichlorobenzene	85	91	63-109	6	30				
1,4-Dichlorobenzene	86	91	58-108	6	30				
3,3'-Dichlorobenzidine	69	70	28-109	1	30				
2,4-Dichlorophenol	98	107	66-123	9	30				
2,4-Dimethylphenol	97	106	68-118	10	30				
3,5-Dimethylphenol	0*	0*	71-127	0	30				
4,6-Dinitro-2-methylphenol	86	89	11-126	4	30				
2,4-Dinitrophenol	78	80	20-143	2	30				

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4-Dinitrotoluene	98	104	56-129	6	30				
2,6-Dinitrotoluene	98	106	69-123	8	30				
1,2-Diphenylhydrazine	101	110	71-129	8	30				
bis(2-Ethylhexyl)phthalate	95	100	63-122	5	30				
Hexachlorobenzene	101	111	77-114	10	30				
Hexachlorobutadiene	97	104	62-120	7	30				
Hexachlorocyclopentadiene	85	87	10-153	3	30				
Hexachloroethane	87	92	57-109	5	30				
Isophorone	100	109*	73-102	9	30				
2-Methylphenol	101	107	75-111	6	30				
4-Methylphenol	100	106	59-123	6	30				
2-Nitroaniline	99	106	67-125	7	30				
3-Nitroaniline	90	95	59-122	5	30				
4-Nitroaniline	82	80	41-109	2	30				
Nitrobenzene	102	111	57-125	8	30				
2-Nitrophenol	98	109	56-127	10	30				
4-Nitrophenol	82	86	37-129	4	30				
N-Nitroso-di-n-propylamine	96	103	60-116	8	30				
N-Nitrosodiphenylamine	92	101	71-122	9	30				
Pentachlorophenol	98	105	28-127	6	30				
Phenol	99	110	58-126	11	30				
1,2,4-Trichlorobenzene	93	102	72-115	9	30				
2,4,5-Trichlorophenol	101	109	58-129	7	30				
2,4,6-Trichlorophenol	101	109	56-134	7	30				
Batch number: 11286SLB026	Sample number(s): 6432178-6432180 UNSPK: P431134								
Acenaphthene	83	81	63-105	3	30				
Acenaphthylene	82	78	67-114	6	30				
Anthracene	78	89	73-115	12	30				
Benzo(a)anthracene	48*	176*	59-128	78*	30				
Benzo(a)pyrene	57*	134	58-142	57*	30				
Benzo(b)fluoranthene	45*	137	54-163	55*	30				
Benzo(g,h,i)perylene	51	70	33-141	20	30				
Benzo(k)fluoranthene	59	108	57-153	44*	30				
Butylbenzylphthalate	177*	169	57-173	5	30				
Di-n-butylphthalate	102	103	65-148	1	30				
Chrysene	37*	162*	67-123	75*	30				
Dibenz(a,h)anthracene	68	74	22-133	9	30				
Diethylphthalate	106	0*	70-136	200*	30				
Dimethylphthalate	0*	0*	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	91	88	39-167	2	30				
Fluoranthene	1*	178*	51-149	87*	30				
Fluorene	86	83	66-122	4	30				
Indeno(1,2,3-cd)pyrene	57	80	21-143	25	30				
1-Methylnaphthalene	81	80	72-123	2	30				
2-Methylnaphthalene	84	82	64-103	3	30				
Naphthalene	87	81	61-102	7	30				
N-Nitrosodimethylamine	81	76	48-113	5	30				
Di-n-octylphthalate	171	171	40-192	0	30				
Phenanthrene	46*	72	62-122	25	30				
Pyrene	6*	178*	51-131	85*	30				
Batch number: 11280A34B	Sample number(s): 6432178-6432180 UNSPK: P430028								

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270365
Reported: 11/03/11 at 03:24 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
9a TPH by EPA 8015B Gas C5-C12	82	76	39-118	3	30				
Batch number: 112850002A	Sample number(s): 6432178 UNSPK: P430028								
4-Amino-2,6-Dinitrotoluene	108	84	80-127	25	50				
2-Amino-4,6-Dinitrotoluene	104	82	80-137	24	50				
1,3-Dinitrobenzene	108	89	38-166	20	50				
2,4-Dinitrotoluene	99	81	80-131	20	50				
2,6-Dinitrotoluene	106	84	80-127	22	50				
HMX	91	68	63-128	29	50				
Nitrobenzene	101	85	80-125	17	50				
Nitroglycerin	97	76*	80-120	24	50				
2-Nitrotoluene	101	85	80-122	17	50				
3-Nitrotoluene	106	90	72-119	17	50				
4-Nitrotoluene	100	84	80-125	17	50				
PETN	105	79*	80-121	28	50				
RDX	93	78	75-129	18	50				
Tetryl	92	73	55-174	24	50				
1,3,5-Trinitrobenzene	97	82	82-126	17	50				
2,4,6-Trinitrotoluene	105	83	82-130	23	50				
Batch number: 112840001A	Sample number(s): 6432178 UNSPK: P430028								
20a Formaldehyde 8315A	111	105	80-120	6	50				
Batch number: 112850024A	Sample number(s): 6432178-6432180 UNSPK: P430028								
PCB-1016	105	98	29-146	7	50				
PCB-1260	109	113	39-149	4	50				
Batch number: 112830016A	Sample number(s): 6432178-6432180 UNSPK: P431134								
Ethanol	42*	43*	48-130	4	20				
Isopropanol	40	42	12-149	4	20				
Methanol	43	44	43-138	1	20				
Batch number: 112870018A	Sample number(s): 6432178-6432180 UNSPK: P434470								
Diethylene glycol	9*	8*	59-109	5	20				
Ethylene glycol	43*	42*	63-107	3	20				
Propylene glycol	52*	50*	63-107	3	20				
Batch number: 112810031A	Sample number(s): 6432178-6432180 UNSPK: P430028								
m-Terphenyl	88	87	75-125	1	20				
o-Terphenyl	90	90	75-125	0	20				
p-Terphenyl	89	89	75-125	0	20				
Batch number: 112860009A	Sample number(s): 6432178-6432180 UNSPK: P430028								
EFH (C12-C14)	85	85	49-123	0	20				
EFH (C15-C20)	106	112	49-123	5	20				
EFH (C21-C30)	111	135*	49-123	12	20				
EFH (C30 - C40)	171*	251*	49-123	19	20				
EFH (C8-C11)	68	67	49-123	2	20				
Batch number: 112831026001A	Sample number(s): 6432178-6432180 UNSPK: P431133 BKG: P431133								
Antimony	80	69*	75-125	14	20	0.150 J	0.203	30* (1)	20
Arsenic	235*	178*	75-125	16	20	3.40	5.91	54*	20
Beryllium	168*	122	75-125	25*	20	0.353	0.478	30* (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270365
Reported: 11/03/11 at 03:24 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Cadmium	162*	129*	75-125	22*	20	0.119	0.257	73* (1)	20
Chromium	258*	136*	75-125	38*	20	12.4	20.4	49*	20
Cobalt	158*	131*	75-125	18	20	3.90	10.4	91*	20
Copper	189*	134*	75-125	26*	20	5.75	8.91	43*	20
Lead	299*	184*	75-125	23*	20	8.05	12.2	41*	20
Nickel	243*	141*	75-125	38*	20	8.06	13.5	51*	20
Silver	151*	122	75-125	22*	20	0.0751 J	0.0712 J	5 (1)	20
Thallium	174*	124	75-125	28*	20	0.145	0.176	19 (1)	20
Vanadium	257*	161*	75-125	23*	20	22.0	32.2	38*	20
Zinc	441 (2)	217 (2)	75-125	28*	20	48.4	75.6	44*	20
Batch number: 112831026001B	Sample number(s): 6432178-6432180 UNSPK: P431133 BKG: P431133								
Selenium	144*	128*	75-125	13	20	0.0693 J	0.0869 J	22* (1)	20
Batch number: 112831026001C	Sample number(s): 6432178-6432180 UNSPK: P431133 BKG: P431133								
Molybdenum	157*	122	75-125	26*	20	0.289	0.569	65* (1)	20
Batch number: 112831026001D	Sample number(s): 6432178-6432180 UNSPK: P431133 BKG: P431133								
Barium	416 (2)	220 (2)	75-125	25*	20	47.5	73.8	43*	20
Batch number: 112835708001	Sample number(s): 6432178-6432180 UNSPK: P431133 BKG: P431133								
Boron	100	97	84-115	6	20	0.350 U	0.350 U	0 (1)	20
Calcium	86	117	75-125	6	20	1,520	1,610	6	20
Lithium	103	102	82-114	3	20	13.9	15.9	13	20
Manganese	16 (2)	66 (2)	75-125	10	20	231	342	39*	20
Phosphorus	72*	96	75-125	6	20	285	327	13	20
Potassium	135*	147*	75-125	2	20	1,800	2,100	15	20
Sodium	97	93	75-125	7	20	92.8 J	54.6 J	52* (1)	20
Strontium	97	97	75-115	3	20	12.5	9.47	28*	20
Tin	94	92	80-110	4	20	2.00 J	2.04 J	2 (1)	20
Titanium	257 (2)	268 (2)	75-125	0	20	602	678	12	20
Zirconium	102	100	81-110	5	20	1.85 J	1.43 J	26* (1)	20
Batch number: 112835711001	Sample number(s): 6432178-6432180 UNSPK: P431133 BKG: P431133								
Mercury	103	103	65-135	3	20	0.0069 U	0.0096 J	200* (1)	20
Batch number: 112925708004	Sample number(s): 6432178-6432180 UNSPK: P431133 BKG: P431133								
Iron	-2605 (2)	-2803 (2)	75-125	2	20	16,500	13,200	22*	20
Magnesium	-35 (2)	-83 (2)	75-125	3	20	3,260	2,910	11	20
Batch number: 112935708004	Sample number(s): 6432178-6432180 UNSPK: P431133 BKG: P431133								
Aluminum	1357 (2)	1385 (2)	75-125	0	20	6,670	8,360	23*	20
Batch number: 11290102201A	Sample number(s): 6432178-6432180 UNSPK: P431140 BKG: P431140								
16a Cyanide by 9012B	101		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11290495201B	Sample number(s): 6432178-6432180 UNSPK: 6432178 BKG: 6432178								
11a Anions by 300.0 - Fluoride	83		80-120			2.1	2.4	11 (1)	20
11a Anions by 300.0 - Nitrate	102		80-120			0.80 U	0.80 U	0 (1)	20
Batch number: 11291243201A	Sample number(s): 6432178-6432180 UNSPK: P435690 BKG: P435690								

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270365
Reported: 11/03/11 at 03:24 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
3a Cr VI by EPA 7199	91		75-125			0.20	U	0.20	U	0 (1)	20
Batch number: 11292621201B	Sample number(s): 6432178-6432180 UNSPK: 6432178 BKG: 6432178										
7a Perchlorate EPA 314.0	105		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11292039401A	Sample number(s): 6432178-6432180 BKG: 6432180										
17a pH by 9045C						7.60		7.68		1	3
Batch number: 11286162401B	Sample number(s): 6432179-6432180,6432183 BKG: P430034										
Moisture Content by 160.3						7.6		7.6		1	20
Batch number: 11291162401B	Sample number(s): 6432178 BKG: P431141										
Moisture Content by 160.3						4.4		4.3		2	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 21b. NDMA in Water
Batch number: 11284WAA026

	N-Nitrosodimethylamine-d6
6432181	258*
6432182	146
Blank	128
LCS	120
LCSD	125
Limits:	50-150

Analysis Name: 21a NDMA by 1625C
Batch number: 11285SLG026

	N-Nitrosodimethylamine-d6
6432178	189*
6432183	159*
Blank	175*
LCS	182*
MS	180*
MSD	147
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11286SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270365
Reported: 11/03/11 at 03:24 PM

Surrogate Quality Control

6432178	93	93	78	91	82	80
6432179	97	98	88	92	85	82
6432180	95	95	89	90	82	83
Blank	98	100	102	99	90	89
LCS	92	94	101	94	85	85
MS	96	97	100	93	85	83
MSD	102	103	107	101	90	89
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11286SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6432178	111	95	105
6432179	108	94	102
6432180	104	88	96
Blank	113	100	109
LCS	111	90	100
MS	88	77	84
MSD	88	75	85
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11280A34B

	Trifluorotoluene-F
6432178	94
6432179	90
6432180	85
Blank	94
LCS	93
MS	102
MSD	102
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11285A20A

	Trifluorotoluene-F
6432184	87
Blank	88
LCS	113
LCSD	115
Limits:	63-135

Analysis Name: 20a Formaldehyde 8315A
Batch number: 112840001A

	Butyraldehyde
6432178	100
Blank	106
LCS	96
MS	100

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270365
Reported: 11/03/11 at 03:24 PM

Surrogate Quality Control

MSD 94

Limits: 64-126

Analysis Name: 15a Energetics by 8330A
Batch number: 112850002A

	2-Nitro-m-xylene
6432178	109
Blank	112
LCS	116
LCSD	121
MS	112
MSD	93
Limits:	80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112850024A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6432178	106	99
6432179	114	123*
6432180	98	107
Blank	123	141*
LCS	100	120
LCSD	106	122*
MS	106	103
MSD	106	118
Limits:	53-139	45-120

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112810031A

	n-Triacontane-d62
6432178	64
6432179	69
6432180	63
Blank	62
LCS	61
MS	62
MSD	65
Limits:	19-152

Analysis Name: 18a Alcohols by 8015B
Batch number: 112830016A

	Acetone
6432178	80
6432179	51
6432180	67
Blank	86
LCS	84
MS	34*
MSD	36*

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270365
Reported: 11/03/11 at 03:24 PM

Surrogate Quality Control

Limits: 42-138

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112860009A

	Chlorobenzene	Orthoterphenyl
6432178	75	86
6432179	83	88
6432180	75	80
Blank	88	90
LCS	79	90
MS	80	86
MSD	77	87
Limits:	37-125	47-145

Analysis Name: 19a Glycols by 8015B
Batch number: 112870018A

	Tetramethylene glycol
6432178	74
6432179	75
6432180	74
Blank	84
LCS	87
MS	76
MSD	74
Limits:	29-137

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Ap# 1270365 Sample# 65643275-84

Alt 10/8/11 (3)

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-046-SA7-SB-3.0	10.07.11	1120	SOIL	NONE	2-Encores										X											
SL-046-SA7-SB-2.5-3.5	10.07.11	1115	SOIL	NONE	1-SS Sleeve			X	X																	
SL-046-SA7-SB-2.5-3.5	10.07.11	1115	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-137-SA7-SB-1.0	10.07.11	1130	SOIL	NONE	2-Encores										X											
SL-137-SA7-SB-0.0-1.0	10.07.11	1125	SOIL	NONE	1-SS Sleeve			X	X																	
SL-137-SA7-SB-0.0-1.0	10.07.11	1125	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X					X	X	X	X		
SL-138-SA7-SB-2.0	10.07.11	1040	SOIL	NONE	2-Encores										X											
SL-138-SA7-SB-1.5-2.5	10.07.11	1035	SOIL	NONE	1-SS Sleeve			X	X																	
SL-138-SA7-SB-1.5-2.5	10.07.11	1035	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X					X	X	X	X		
EB-SA7-SB-100711	10.07.11	1400	WATER	NONE	1-1 L Amber														X							HGL ASTM WATER
TB-100711	10.07.11	0800	WATER	NONE	1-1 L Amber														X							
TB-100711	10.07.11	0800	SOIL	NONE	1-4 oz Jar														X							
TB-100711	10.07.11	0800	WATER	NONE	2-40 mL Vials										X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/07/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	All samples collected 10/07/11 via Hand Auger and Slide Hammer
	10/8/11 0730	8767 9857 5095	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 31, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/08/2011
Group Number: 1270366
SDG: DX148
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-046-SA7-SB-2.5-3.5 Soil	6432185
SL-137-SA7-SB-0.0-1.0 Soil	6432186
SL-138-SA7-SB-1.5-2.5 Soil	6432187

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Dorothy M. Love

Dorothy M. Love
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-046-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA7-SB-2.5-3.5

LLI Sample # SW 6432185
LLI Group # 1270366
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/07/2011 11:15

Submitted: 10/08/2011 09:30
Reported: 10/31/2011 10:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4807 SDG#: DX148-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-046-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-046-SA7-SB-2.5-3.5

LLI Sample # SW 6432185
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Suite 210
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X4807 SDG#: DX148-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0314	U	0.0314	1.02	1
11031	12378-PeCDD	40321-76-4	0.0660	JQ	0.0238	5.09	1
11031	123478-HxCDD	39227-28-6	0.0313	J	0.0184	5.09	1
11031	123678-HxCDD	57653-85-7	0.0723	JB	0.0186	5.09	1
11031	123789-HxCDD	19408-74-3	0.0672	JB	0.0194	5.09	1
11031	1234678-HpCDD	35822-46-9	0.630	JBQ	0.0241	5.09	1
11031	OCDD	3268-87-9	3.82	JB	0.0234	10.2	1
11031	2378-TCDF	51207-31-9	0.0214	U	0.0214	1.02	1
11031	12378-PeCDF	57117-41-6	0.0300	JBQ	0.0130	5.09	1
11031	23478-PeCDF	57117-31-4	0.0733	JBQ	0.0133	5.09	1
11031	123478-HxCDF	70648-26-9	0.0390	JB	0.0139	5.09	1
11031	123678-HxCDF	57117-44-9	0.0365	JBQ	0.0122	5.09	1
11031	123789-HxCDF	72918-21-9	0.0455	JBQ	0.0161	5.09	1
11031	234678-HxCDF	60851-34-5	0.0671	JB	0.0125	5.09	1
11031	1234678-HpCDF	67562-39-4	0.151	JB	0.0126	5.09	1
11031	1234789-HpCDF	55673-89-7	0.0398	JBQ	0.0213	5.09	1
11031	OCDF	39001-02-0	0.276	JBQ	0.0285	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	93	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	100	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	77	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-046-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA7-SB-2.5-3.5

LLI Sample # SW 6432185
LLI Group # 1270366
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/07/2011 11:15

Submitted: 10/08/2011 09:30
Reported: 10/31/2011 10:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4807 SDG#: DX148-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-046-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-046-SA7-SB-2.5-3.5

LLI Sample # SW 6432185
LLI Group # 1270366
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/07/2011 11:15

Submitted: 10/08/2011 09:30
Reported: 10/31/2011 10:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4807 SDG#: DX148-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11293002	10/22/2011 12:33	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11293002	10/20/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11291162401B	10/18/2011 21:20	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-137-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA7-SB-0.0-1.0

LLI Sample # SW 6432186
LLI Group # 1270366
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/07/2011 11:25

Submitted: 10/08/2011 09:30
Reported: 10/31/2011 10:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4808 SDG#: DX148-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-137-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-137-SA7-SB-0.0-1.0

LLI Sample # SW 6432186
LLI Group # 1270366
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/07/2011 11:25

Submitted: 10/08/2011 09:30
Reported: 10/31/2011 10:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4808 SDG#: DX148-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.241	JQ	0.0378	1.03	1
11031	12378-PeCDD	40321-76-4	1.94	J	0.0816	5.13	1
11031	123478-HxCDD	39227-28-6	3.74	J	0.0796	5.13	1
11031	123678-HxCDD	57653-85-7	13.2	B	0.0821	5.13	1
11031	123789-HxCDD	19408-74-3	7.10	B	0.0828	5.13	1
11031	1234678-HpCDD	35822-46-9	345	B	0.186	5.13	1
11031	OCDD	3268-87-9	3,330	B	0.201	10.3	1
11031	2378-TCDF	51207-31-9	0.268	J	0.0511	1.03	1
11031	12378-PeCDF	57117-41-6	0.817	JB	0.0425	5.13	1
11031	23478-PeCDF	57117-31-4	0.925	JB	0.0399	5.13	1
11031	123478-HxCDF	70648-26-9	1.95	JB	0.0525	5.13	1
11031	123678-HxCDF	57117-44-9	2.18	JB	0.0474	5.13	1
11031	123789-HxCDF	72918-21-9	0.559	JB	0.0591	5.13	1
11031	234678-HxCDF	60851-34-5	3.78	JB	0.0519	5.13	1
11031	1234678-HpCDF	67562-39-4	40.8	B	0.0486	5.13	1
11031	1234789-HpCDF	55673-89-7	4.61	JB	0.0689	5.13	1
11031	OCDF	39001-02-0	85.4	B	0.0457	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	102	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	88	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-137-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA7-SB-0.0-1.0

LLI Sample # SW 6432186
LLI Group # 1270366
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/07/2011 11:25

Submitted: 10/08/2011 09:30
Reported: 10/31/2011 10:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4808 SDG#: DX148-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-137-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-137-SA7-SB-0.0-1.0

LLI Sample # SW 6432186
LLI Group # 1270366
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/07/2011 11:25

Submitted: 10/08/2011 09:30
Reported: 10/31/2011 10:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4808 SDG#: DX148-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11293002	10/22/2011 16:32	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11293002	10/20/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11286162401B	10/13/2011 20:54	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-138-SA7-SB-1.5-2.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA7-SB-1.5-2.5

LLI Sample # SW 6432187
LLI Group # 1270366
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/07/2011 10:35

Submitted: 10/08/2011 09:30
Reported: 10/31/2011 10:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4809 SDG#: DX148-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-138-SA7-SB-1.5-2.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA7-SB-1.5-2.5

LLI Sample # SW 6432187
LLI Group # 1270366
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/07/2011 10:35

Submitted: 10/08/2011 09:30
Reported: 10/31/2011 10:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4809 SDG#: DX148-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.166	J	0.0473	1.18	1
11031	12378-PeCDD	40321-76-4	1.82	J	0.0815	5.91	1
11031	123478-HxCDD	39227-28-6	3.53	J	0.0747	5.91	1
11031	123678-HxCDD	57653-85-7	13.9	B	0.0790	5.91	1
11031	123789-HxCDD	19408-74-3	6.96	B	0.0767	5.91	1
11031	1234678-HpCDD	35822-46-9	349	B	0.179	5.91	1
11031	OCDD	3268-87-9	2,830	B	0.177	11.8	1
11031	2378-TCDF	51207-31-9	0.244	J	0.0472	1.18	1
11031	12378-PeCDF	57117-41-6	0.846	JB	0.0333	5.91	1
11031	23478-PeCDF	57117-31-4	1.07	JB	0.0329	5.91	1
11031	123478-HxCDF	70648-26-9	1.62	JB	0.0579	5.91	1
11031	123678-HxCDF	57117-44-9	1.77	JB	0.0537	5.91	1
11031	123789-HxCDF	72918-21-9	0.538	JBQ	0.0577	5.91	1
11031	234678-HxCDF	60851-34-5	3.31	JB	0.0499	5.91	1
11031	1234678-HpCDF	67562-39-4	40.1	B	0.0522	5.91	1
11031	1234789-HpCDF	55673-89-7	3.73	JB	0.0796	5.91	1
11031	OCDF	39001-02-0	96.4	B	0.0544	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	91	32 - 141
13C12-123678-HxCDD	90	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	101	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	82	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-138-SA7-SB-1.5-2.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA7-SB-1.5-2.5

LLI Sample # SW 6432187
LLI Group # 1270366
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/07/2011 10:35

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4809 SDG#: DX148-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-138-SA7-SB-1.5-2.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-138-SA7-SB-1.5-2.5

LLI Sample # SW 6432187
LLI Group # 1270366
Account # 13013

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4809 SDG#: DX148-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11293002	10/22/2011 17:28	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11293002	10/20/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11286162401B	10/13/2011 20:54	Scott W Freisher	1

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270366
Reported: 10/31/11 at 10:20 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11286162401B	Sample number(s): 6432186-6432187								
Moisture Content by 160.3					100		80-120		
Batch number: 11291162401B	Sample number(s): 6432185								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11293002	Sample number(s): 6432185-6432187								
2378-TCDD	0.0314 U	0.0314	1.00	ng/kg	106		67-158		
12378-PeCDD	0.0231 U	0.0231	5.00	ng/kg	105		70-142		
123478-HxCDD	0.0172 U	0.0172	5.00	ng/kg	100		70-164		
123678-HxCDD	0.0373 J	0.0179	5.00	ng/kg	96		76-134		
123789-HxCDD	0.0323 J	0.0162	5.00	ng/kg	101		64-162		
1234678-HpCDD	0.244 J	0.0198	5.00	ng/kg	99		70-140		
OCDD	0.356 J	0.0157	10.0	ng/kg	96		78-144		
2378-TCDF	0.0253 U	0.0253	1.00	ng/kg	101		75-158		
12378-PeCDF	0.0371 J	0.0138	5.00	ng/kg	103		80-134		
23478-PeCDF	0.0800 J	0.0135	5.00	ng/kg	95		68-160		
123478-HxCDF	0.0412 J	0.0144	5.00	ng/kg	100		72-134		
123678-HxCDF	0.0308 J	0.0122	5.00	ng/kg	99		84-130		
123789-HxCDF	0.0261 J	0.0158	5.00	ng/kg	100		78-130		
234678-HxCDF	0.0373 J	0.0132	5.00	ng/kg	97		70-156		
1234678-HpCDF	0.0886 J	0.00730	5.00	ng/kg	91		82-122		
1234789-HpCDF	0.0364 J	0.0126	5.00	ng/kg	98		78-138		
OCDF	0.107 J	0.0264	10.0	ng/kg	98		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11286162401B	Sample number(s): 6432186-6432187 BKG: P430034								
Moisture Content by 160.3						7.6	7.6	1	20
Batch number: 11291162401B	Sample number(s): 6432185 BKG: P431141								
Moisture Content by 160.3						4.4	4.3	2	20
Batch number: 11293002	Sample number(s): 6432185-6432187 UNSPK: P430041								

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270366
Reported: 10/31/11 at 10:20 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDD	107	108	67-158	1	25				
12378-PeCDD	105	105	70-142	0	25				
123478-HxCDD	99	101	70-164	2	25				
123678-HxCDD	95	96	76-134	1	25				
123789-HxCDD	102	102	64-162	0	25				
1234678-HpCDD	100	100	70-140	0	25				
OCDD	99	96	78-144	3	25				
2378-TCDF	101	99	75-158	2	25				
12378-PeCDF	103	102	80-134	0	25				
23478-PeCDF	96	95	68-160	0	25				
123478-HxCDF	98	100	72-134	3	25				
123678-HxCDF	101	100	84-130	1	25				
123789-HxCDF	101	100	78-130	1	25				
234678-HxCDF	99	98	70-156	1	25				
1234678-HpCDF	91	92	82-122	0	25				
1234789-HpCDF	99	98	78-138	1	25				
OCDF	98	98	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11293002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6432185	73	71	70	79	80	71
6432186	80	75	74	80	76	78
6432187	74	71	72	77	81	80
Blank	68	69	64	75	69	68
MS	70	68	68	78	75	72
MSD	74	74	71	78	78	75
OPR	66	68	65	72	69	73
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6432185	98	72	77	78	89	93
6432186	92	78	88	77	82	84
6432187	94	77	82	75	91	90
Blank	103	73	82	78	84	85
MS	102	72	78	75	89	88
MSD	96	80	87	78	89	89
OPR	96	76	84	74	80	81
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270366
Reported: 10/31/11 at 10:20 AM

Surrogate Quality Control

6432185	88	91	100	70	78
6432186	83	92	102	80	80
6432187	89	91	101	71	77
Blank	86	98	111	61	75
MS	87	94	105	66	76
MSD	87	94	105	73	80
OPR	81	93	104	61	71
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Ap# 1270366 Sample# 6432155-87

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	
SL-046-SA7-SB-3.0	10.07.11	1120	SOIL	NONE	2-Encores										X										
SL-046-SA7-SB-2.5-3.5	10.07.11	1115	SOIL	NONE	1-SS Sleeve			X	X																
SL-046-SA7-SB-2.5-3.5	10.07.11	1115	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X	
SL-137-SA7-SB-1.0	10.07.11	1130	SOIL	NONE	2-Encores										X										
SL-137-SA7-SB-0.0-1.0	10.07.11	1125	SOIL	NONE	1-SS Sleeve			X	X																
SL-137-SA7-SB-0.0-1.0	10.07.11	1125	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X					X	X	X	X	
SL-138-SA7-SB-2.0	10.07.11	1040	SOIL	NONE	2-Encores										X										
SL-138-SA7-SB-1.5-2.5	10.07.11	1035	SOIL	NONE	1-SS Sleeve			X	X																
SL-138-SA7-SB-1.5-2.5	10.07.11	1035	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X					X	X	X	X	
EB-SA7-SB-100711	10.07.11	1400	WATER	NONE	1-1 L Amber														X						HGL ASTM WATER
TB-100711	10.07.11	0800	WATER	NONE	1-1 L Amber														X						
TB-100711	10.07.11	0800	SOIL	NONE	1-4 oz Jar														X						
TB-100711	10.07.11	0800	WATER	NONE	2-40 mL Vials										X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Other Instructions and Notes
	10/07/2011 / 1630		Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	All samples collected 10/07/11 via Hand Auger and Slide Hammer
	10/8/11 0930	8767 9857 5095	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 07, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/11/2011
Group Number: 1270564
SDG: DE265
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-112-SA7-SB-0.0-1.0 Soil	6433412
SL-159-SA7-SB-3.0-4.0 Soil	6433413
SL-169-SA7-SB-3.0-4.0 Soil	6433414
EB-SA7-SB-101011 Water	6433415
TB-101011 Water	6433416
TB-101011 Sand	6433417
TB-101011 Water	6433418

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Matthew E. Barton
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-112-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-SA7-SB-0.0-1.0

LLI Sample # SW 6433412
LLI Group # 1270564
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/10/2011 10:15

Submitted: 10/11/2011 09:15
Reported: 11/07/2011 12:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL112 SDG#: DE265-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Butylbenzylphthalate	85-68-7	32	J	18	180	1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	Diethylphthalate	84-66-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	Dimethylphthalate	131-11-3	18	U	18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-112-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA7-SB-0.0-1.0

LLI Sample # SW 6433412
LLI Group # 1270564
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/10/2011 10:15

Submitted: 10/11/2011 09:15
Reported: 11/07/2011 12:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL112 SDG#: DE265-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	18	U	18	180	1
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	Tetralin	119-64-2	180	U	180	180	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.6	U	3.6	9.1	5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	9.1	5
10138	Anthracene	120-12-7	1.8	U	1.8	9.1	5
10138	Benzo(a)anthracene	56-55-3	3.6	U	3.6	9.1	5
10138	Benzo(a)pyrene	50-32-8	3.6	U	3.6	9.1	5
10138	Benzo(b)fluoranthene	205-99-2	9.6		3.6	9.1	5
10138	Benzo(g,h,i)perylene	191-24-2	3.6	U	3.6	9.1	5
10138	Benzo(k)fluoranthene	207-08-9	3.6	U	3.6	9.1	5
10138	Chrysene	218-01-9	3.7	J	1.8	9.1	5
10138	Dibenz(a,h)anthracene	53-70-3	3.6	U	3.6	9.1	5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	43	J	33	98	5
10138	Fluoranthene	206-44-0	3.6	U	3.6	9.1	5
10138	Fluorene	86-73-7	3.6	U	3.6	9.1	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.6	U	3.6	9.1	5
10138	1-Methylnaphthalene	90-12-0	3.6	U	3.6	9.1	5
10138	2-Methylnaphthalene	91-57-6	3.6	U	3.6	9.1	5
10138	Naphthalene	91-20-3	3.6	U	3.6	9.1	5
10138	N-Nitrosodimethylamine	62-75-9	3.6	U	3.6	9.1	5
10138	Phenanthrene	85-01-8	3.6	U	3.6	9.1	5
10138	Pyrene	129-00-0	3.6	U	3.6	9.1	5
	Reporting limits were raised due to interference from the sample matrix.						
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 13 ug/kg. The blank value was not subtracted from the analytical result.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	4.1		1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-112-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-SA7-SB-0.0-1.0

LLI Sample # SW 6433412
LLI Group # 1270564
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/10/2011 10:15

Submitted: 10/11/2011 09:15
Reported: 11/07/2011 12:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL112 SDG#: DE265-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	1.3	J	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.95	J	0.42	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,600		6.53	21.6	1
07914	Boron	7440-42-8	0.388	U	0.388	5.39	1
01650	Calcium	7440-70-2	5,770		2.70	21.6	1
01654	Iron	7439-89-6	26,900		2.81	21.6	1
01656	Lithium	7439-93-2	38.2		0.67	2.2	1
01657	Magnesium	7439-95-4	7,180		0.475	10.8	1
06958	Manganese	7439-96-5	394		0.0388	0.539	1
10145	Phosphorus	7723-14-0	541		0.377	10.8	1
01662	Potassium	7440-09-7	3,810		12.2	53.9	1
01667	Sodium	7440-23-5	122		6.42	108	1
07968	Strontium	7440-24-6	18.0		0.0270	0.539	1
06969	Tin	7440-31-5	3.31	J	0.345	10.8	1
06970	Titanium	7440-32-6	1,520		0.0766	1.08	1
10146	Zirconium	7440-67-7	2.59	J	0.496	5.39	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.422		0.0790	0.214	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	14.8		0.0854	0.427	2
06126	Barium	7440-39-3	143		0.113	0.427	2
06127	Beryllium	7440-41-7	0.777		0.0171	0.107	2
06128	Cadmium	7440-43-9	0.311		0.0470	0.107	2
06131	Chromium	7440-47-3	31.3		0.128	0.427	2
06132	Cobalt	7440-48-4	12.1		0.0214	0.107	2
06133	Copper	7440-50-8	23.5		0.0854	0.427	2
06135	Lead	7439-92-1	12.0		0.0109	0.214	2
06138	Molybdenum	7439-98-7	1.58		0.0534	0.107	2
06139	Nickel	7440-02-0	24.5		0.107	0.427	2
06141	Selenium	7782-49-2	0.606		0.0619	0.427	2
06142	Silver	7440-22-4	0.0955	J	0.0152	0.107	2
06145	Thallium	7440-28-0	0.472		0.0320	0.107	2
06148	Vanadium	7440-62-2	61.1		0.0235	0.107	2
06149	Zinc	7440-66-6	98.9		0.598	3.20	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0258	J	0.0074	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.86	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-112-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-112-SA7-SB-0.0-1.0

LLI Sample # SW 6433412
LLI Group # 1270564
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/10/2011 10:15

Submitted: 10/11/2011 09:15
Reported: 11/07/2011 12:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL112 SDG#: DE265-01

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 314.0**			**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0		14797-73-0	9.8	U	9.8	32.7	1
	SW-846 7199			**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.29	J	0.22	1.1	1
	SW-846 9045C modified			**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C		n.a.	7.79		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**			**%**		**%**	**%**	
11624	Moisture Content by 160.3		n.a.	8.2		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11286SLA026	10/20/2011 01:20	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11286SLB026	10/15/2011 03:17	Gregory J Drahovsky	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11286SLB026	10/14/2011 02:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11286SLA026	10/13/2011 17:45	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112850024A	10/19/2011 11:03	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112850024A	10/13/2011 11:30	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112855708001	10/21/2011 03:44	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112855708001	10/20/2011 01:26	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112855708001	10/21/2011 03:44	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112855708001	10/21/2011 03:44	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112855708001	10/20/2011 01:26	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112855708001	10/21/2011 03:44	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112855708001	10/20/2011 01:26	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112855708001	10/20/2011 01:26	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112855708001	10/21/2011 03:44	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112855708001	10/20/2011 01:26	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112855708001	10/20/2011 01:26	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112855708001	10/21/2011 03:44	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-112-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA7-SB-0.0-1.0

LLI Sample # SW 6433412
LLI Group # 1270564
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/10/2011 10:15

Submitted: 10/11/2011 09:15
Reported: 11/07/2011 12:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL112 SDG#: DE265-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	112855708001	10/20/2011 01:26	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112855708001	10/20/2011 01:26	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112851026001A	10/13/2011 08:20	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112851026001A	10/13/2011 08:20	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112851026001D	10/13/2011 08:20	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112851026001A	10/13/2011 08:20	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112851026001A	10/13/2011 08:20	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112851026001A	10/13/2011 08:20	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112851026001A	10/13/2011 08:20	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112851026001A	10/13/2011 08:20	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112851026001A	10/13/2011 08:20	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112851026001C	10/13/2011 08:20	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112851026001A	10/13/2011 08:20	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112851026001B	10/13/2011 08:20	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112851026001A	10/13/2011 08:20	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112851026001A	10/13/2011 08:20	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112851026001A	10/13/2011 08:20	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112851026001A	10/13/2011 08:20	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112855711001	10/13/2011 08:47	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112855708001	10/12/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112851026001	10/12/2011 22:14	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112855711001	10/13/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11297495201A	10/25/2011 19:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11292621201B	10/25/2011 08:41	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11291243201A	10/20/2011 11:33	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11297495201A	10/24/2011 21:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11292621201B	10/19/2011 07:15	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11294039401A	10/21/2011 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11286162401B	10/13/2011 20:54	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-159-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA7-SB-3.0-4.0

LLI Sample # SW 6433413
LLI Group # 1270564
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/10/2011 14:15

Submitted: 10/11/2011 09:15
Reported: 11/07/2011 12:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL159 SDG#: DE265-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	70	U	70	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	70	U	70	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-159-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-159-SA7-SB-3.0-4.0

LLI Sample # SW 6433413
LLI Group # 1270564
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/10/2011 14:15

Submitted: 10/11/2011 09:15
Reported: 11/07/2011 12:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL159 SDG#: DE265-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.2	J	6.3	19	1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.7	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.7	1
10138	Pyrene	129-00-0	0.70	U	0.70	1.7	1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 13 ug/kg. The blank value was not subtracted from the analytical result.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-159-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-159-SA7-SB-3.0-4.0

LLI Sample # SW 6433413
LLI Group # 1270564
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/10/2011 14:15

Submitted: 10/11/2011 09:15
Reported: 11/07/2011 12:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL159 SDG#: DE265-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,800		6.33	20.9	1
07914	Boron	7440-42-8	0.376	U	0.376	5.23	1
01650	Calcium	7440-70-2	2,940		2.61	20.9	1
01654	Iron	7439-89-6	23,500		2.73	20.9	1
01656	Lithium	7439-93-2	27.2		0.65	2.1	1
01657	Magnesium	7439-95-4	5,750		0.460	10.5	1
06958	Manganese	7439-96-5	237		0.0376	0.523	1
10145	Phosphorus	7723-14-0	338		0.366	10.5	1
01662	Potassium	7440-09-7	2,110		11.8	52.3	1
01667	Sodium	7440-23-5	129		6.22	105	1
07968	Strontium	7440-24-6	16.4		0.0261	0.523	1
06969	Tin	7440-31-5	2.97	J	0.335	10.5	1
06970	Titanium	7440-32-6	1,430		0.0742	1.05	1
10146	Zirconium	7440-67-7	2.11	J	0.481	5.23	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.367		0.0759	0.205	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.17		0.0820	0.410	2
06126	Barium	7440-39-3	111		0.109	0.410	2
06127	Beryllium	7440-41-7	0.879		0.0164	0.103	2
06128	Cadmium	7440-43-9	0.0451	U	0.0451	0.103	2
06131	Chromium	7440-47-3	34.0		0.123	0.410	2
06132	Cobalt	7440-48-4	10.2		0.0205	0.103	2
06133	Copper	7440-50-8	18.7		0.0820	0.410	2
06135	Lead	7439-92-1	8.46		0.0105	0.205	2
06138	Molybdenum	7439-98-7	1.21		0.0513	0.103	2
06139	Nickel	7440-02-0	17.6		0.103	0.410	2
06141	Selenium	7782-49-2	0.344	J	0.0595	0.410	2
06142	Silver	7440-22-4	0.0327	J	0.0146	0.103	2
06145	Thallium	7440-28-0	0.535		0.0308	0.103	2
06148	Vanadium	7440-62-2	66.1		0.0226	0.103	2
06149	Zinc	7440-66-6	86.9		0.574	3.08	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	U	0.0071	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.86	U	0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.7	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-159-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-159-SA7-SB-3.0-4.0

LLI Sample # SW 6433413
LLI Group # 1270564
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/10/2011 14:15

Submitted: 10/11/2011 09:15
Reported: 11/07/2011 12:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL159 SDG#: DE265-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32 J	0.20	1.0	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.81	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.3	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11286SLA026	10/20/2011 01:46	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11286SLB026	10/15/2011 03:49	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11286SLB026	10/14/2011 02:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11286SLA026	10/13/2011 17:45	Sally L Appleyard	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112850024A	10/19/2011 11:22	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112850024A	10/13/2011 11:30	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112855708001	10/21/2011 04:19	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112855708001	10/20/2011 01:51	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112855708001	10/21/2011 04:19	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112855708001	10/21/2011 04:19	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112855708001	10/20/2011 01:51	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112855708001	10/21/2011 04:19	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112855708001	10/20/2011 01:51	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112855708001	10/20/2011 01:51	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112855708001	10/21/2011 04:19	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112855708001	10/20/2011 01:51	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112855708001	10/20/2011 01:51	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112855708001	10/21/2011 04:19	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112855708001	10/20/2011 01:51	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112855708001	10/20/2011 01:51	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112851026001A	10/13/2011 08:44	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-159-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-159-SA7-SB-3.0-4.0

LLI Sample # SW 6433413
LLI Group # 1270564
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/10/2011 14:15

Submitted: 10/11/2011 09:15
Reported: 11/07/2011 12:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL159 SDG#: DE265-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	112851026001A	10/13/2011 08:44	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112851026001D	10/13/2011 08:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112851026001A	10/13/2011 08:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112851026001A	10/13/2011 08:44	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112851026001A	10/13/2011 08:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112851026001A	10/13/2011 08:44	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112851026001A	10/13/2011 08:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112851026001A	10/13/2011 08:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112851026001C	10/13/2011 08:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112851026001A	10/13/2011 08:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112851026001B	10/13/2011 08:44	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112851026001A	10/13/2011 08:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112851026001A	10/13/2011 08:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112851026001A	10/13/2011 08:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112851026001A	10/13/2011 08:44	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112855711001	10/13/2011 08:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112855708001	10/12/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112851026001	10/12/2011 22:14	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112855711001	10/13/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11297495201A	10/25/2011 20:27	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11292621201B	10/25/2011 09:04	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11291243201A	10/20/2011 11:53	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11297495201A	10/24/2011 21:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11292621201B	10/19/2011 07:15	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11294039401A	10/21/2011 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11286162401B	10/13/2011 20:54	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-169-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-169-SA7-SB-3.0-4.0

LLI Sample # SW 6433414
LLI Group # 1270564
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/10/2011 09:55

Submitted: 10/11/2011 09:15
Reported: 11/07/2011 12:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL169 SDG#: DE265-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	20.1	J	17.3	34.5	1
	The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.						
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	2-butoxy-Ethanol	111-76-2	1,700	U	1,700	1,700	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	70	U	70	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	70	U	70	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-169-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-169-SA7-SB-3.0-4.0

LLI Sample # SW 6433414
LLI Group # 1270564
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/10/2011 09:55

Submitted: 10/11/2011 09:15
Reported: 11/07/2011 12:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL169 SDG#: DE265-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	2-phenoxy-Ethanol	122-99-6	1,700	U	1,700	1,700	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	2.4		0.70	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	J	6.3	19	1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.7	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7	1
10138	Di-n-octylphthalate	117-84-0	7.5	J	6.3	19	1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.7	1
10138	Pyrene	129-00-0	0.70	U	0.70	1.7	1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 13 ug/kg. The blank value was not subtracted from the analytical result.						
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	J	0.2	1.1	26.77

*=This limit was used in the evaluation of the final result

Sample Description: **SL-169-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-169-SA7-SB-3.0-4.0

LLI Sample # SW 6433414
LLI Group # 1270564
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/10/2011 09:55

Submitted: 10/11/2011 09:15
Reported: 11/07/2011 12:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL169 SDG#: DE265-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	840	U	840	2,100	1
	Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520	1
10501	Isopropanol	67-63-0	100	U	100	520	1
10501	Methanol	67-56-1	100	U	100	520	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10	1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10	1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3	1
10199	EFH (C15-C20)	n.a.	1.1	J	0.42	1.3	1
10199	EFH (C21-C30)	n.a.	3.0		0.42	1.3	1
10199	EFH (C30 - C40)	n.a.	8.6		0.42	1.3	1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,500		6.10	20.2	1
07914	Boron	7440-42-8	0.363	U	0.363	5.04	1
01650	Calcium	7440-70-2	3,200		2.52	20.2	1
01654	Iron	7439-89-6	19,100		2.63	20.2	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-169-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-169-SA7-SB-3.0-4.0

LLI Sample # SW 6433414
LLI Group # 1270564
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/10/2011 09:55

Submitted: 10/11/2011 09:15
Reported: 11/07/2011 12:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL169 SDG#: DE265-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	22.9		0.63	2.0	1
01657	Magnesium	7439-95-4	4,410		0.444	10.1	1
06958	Manganese	7439-96-5	320		0.0363	0.504	1
10145	Phosphorus	7723-14-0	392		0.353	10.1	1
01662	Potassium	7440-09-7	3,000		11.4	50.4	1
01667	Sodium	7440-23-5	73.6	J	6.00	101	1
07968	Strontium	7440-24-6	19.3		0.0252	0.504	1
06969	Tin	7440-31-5	2.73	J	0.323	10.1	1
06970	Titanium	7440-32-6	1,210		0.0716	1.01	1
10146	Zirconium	7440-67-7	1.96	J	0.464	5.04	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.207	J	0.0769	0.208	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.94		0.0831	0.416	2
06126	Barium	7440-39-3	136		0.110	0.416	2
06127	Beryllium	7440-41-7	0.660		0.0166	0.104	2
06128	Cadmium	7440-43-9	0.199		0.0457	0.104	2
06131	Chromium	7440-47-3	22.1		0.125	0.416	2
06132	Cobalt	7440-48-4	7.15		0.0208	0.104	2
06133	Copper	7440-50-8	11.5		0.0831	0.416	2
06135	Lead	7439-92-1	8.61		0.0106	0.208	2
06138	Molybdenum	7439-98-7	0.591		0.0519	0.104	2
06139	Nickel	7440-02-0	14.9		0.104	0.416	2
06141	Selenium	7782-49-2	0.156	J	0.0603	0.416	2
06142	Silver	7440-22-4	0.0365	J	0.0148	0.104	2
06145	Thallium	7440-28-0	0.323		0.0312	0.104	2
06148	Vanadium	7440-62-2	41.2		0.0229	0.104	2
06149	Zinc	7440-66-6	70.4		0.582	3.12	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0125	J	0.0072	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.84	1.0	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.5	J	0.84	1.6	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	J	0.21	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-169-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-169-SA7-SB-3.0-4.0

LLI Sample # SW 6433414
LLI Group # 1270564
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/10/2011 09:55

Submitted: 10/11/2011 09:15
Reported: 11/07/2011 12:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL169 SDG#: DE265-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.65	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.7	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-169-SA7-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11285SLG026	10/17/2011 21:26	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11286SLA026	10/20/2011 02:12	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11286SLB026	10/15/2011 04:20	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11285SLG026	10/13/2011 06:25	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11286SLB026	10/14/2011 02:00	Sherry L Morrow	1
00381	BNA Soil Sonication	SW-846 3550B	1	11286SLA026	10/13/2011 17:45	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11290B16A	10/17/2011 23:15	Laura M Krieger	26.77
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128425818	10/11/2011 12:49	Larry E Bevins	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128425818	10/11/2011 12:50	Larry E Bevins	n.a.
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112860003A	10/14/2011 17:59	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112850024A	10/19/2011 11:40	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112850024A	10/13/2011 11:30	Denise L Trimby	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112860003A	10/13/2011 13:30	Wanda F Oswald	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112850037A	10/13/2011 18:54	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112870018A	10/17/2011 23:51	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112870007A	10/22/2011 00:11	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112860009A	10/15/2011 00:25	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112860009A	10/13/2011 14:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112870007A	10/14/2011 13:00	David S Schrum	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-169-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-169-SA7-SB-3.0-4.0

LLI Sample # SW 6433414
LLI Group # 1270564
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/10/2011 09:55

Submitted: 10/11/2011 09:15
Reported: 11/07/2011 12:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL169 SDG#: DE265-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112850037A	10/13/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112870018A	10/14/2011 17:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112855708001	10/21/2011 04:23	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112855708001	10/20/2011 02:03	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112855708001	10/21/2011 04:23	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112855708001	10/21/2011 04:23	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112855708001	10/20/2011 02:03	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112855708001	10/21/2011 04:23	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112855708001	10/20/2011 02:03	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112855708001	10/20/2011 02:03	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112855708001	10/21/2011 04:23	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112855708001	10/20/2011 02:03	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112855708001	10/20/2011 02:03	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112855708001	10/21/2011 04:23	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112855708001	10/20/2011 02:03	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112855708001	10/20/2011 02:03	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112851026001A	10/13/2011 08:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112851026001A	10/13/2011 08:47	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112851026001D	10/13/2011 08:47	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112851026001A	10/13/2011 08:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112851026001A	10/13/2011 08:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112851026001A	10/13/2011 08:47	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112851026001A	10/13/2011 08:47	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112851026001A	10/13/2011 08:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112851026001A	10/13/2011 08:47	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112851026001C	10/13/2011 08:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112851026001A	10/13/2011 08:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112851026001B	10/13/2011 08:47	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112851026001A	10/13/2011 08:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112851026001A	10/13/2011 08:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112851026001A	10/13/2011 08:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112851026001A	10/13/2011 08:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112855711001	10/13/2011 08:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112855708001	10/12/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112851026001	10/12/2011 22:14	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112855711001	10/13/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11297495201A	10/25/2011 20:42	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11297495201A	10/25/2011 20:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11292621201B	10/25/2011 09:27	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11291243201A	10/20/2011 12:07	Elyse P Brunstetter	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-169-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-169-SA7-SB-3.0-4.0

LLI Sample # SW 6433414
LLI Group # 1270564
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/10/2011 09:55

Submitted: 10/11/2011 09:15
Reported: 11/07/2011 12:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL169 SDG#: DE265-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11297495201A	10/24/2011 21:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11292621201B	10/19/2011 07:15	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11294039401A	10/21/2011 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11286162401B	10/13/2011 20:54	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA7-SB-101011 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-101011

LLI Sample # WW 6433415
LLI Group # 1270564
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/10/2011 14:00

Submitted: 10/11/2011 09:15
Reported: 11/07/2011 12:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10-EB SDG#: DE265-04EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	0.948 J	0.509	1.02	1

The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.

N-nitrosodimethylamine was detected in the method blank at a concentration of 1.14 ng/l. The blank value was not subtracted from the analytical result. Sufficient sample was unavailable to repeat the analysis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11286WAH026	10/17/2011 17:36	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11286WAH026	10/14/2011 03:10	David V Hershey Jr	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: TB-101011 Water
SSFL Area IV Collocated Soil Sampling
TB-101011

LLI Sample # WW 6433416
LLI Group # 1270564
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/10/2011 08:00

Submitted: 10/11/2011 09:15
Reported: 11/07/2011 12:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10-TB SDG#: DE265-05TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	1.34	0.510	1.02	1

N-nitrosodimethylamine was detected in the method blank at a concentration of 1.14 ng/l. The blank value was not subtracted from the analytical result. Sufficient sample was unavailable to repeat the analysis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11286WAH026	10/17/2011 17:56	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11286WAH026	10/14/2011 03:10	David V Hershey Jr	1

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Analysis Report

Sample Description: TB-101011 Sand
SSFL Area IV Collocated Soil Sampling
TB-101011

LLI Sample # SW 6433417
LLI Group # 1270564
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/10/2011 08:00

Submitted: 10/11/2011 09:15
Reported: 11/07/2011 12:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10T-B SDG#: DE265-06TB

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	16.6	U	16.6	33.2	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.50	U	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11285SLG026	10/17/2011 21:45	Matthew S Woods	1
11630	NDMA Soil Microwave	SW-846 3546	1	11285SLG026	10/13/2011 06:25	Roman Kuropatkin	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11286162401B	10/13/2011 20:54	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: TB-101011 Water
SSFL Area IV Collocated Soil Sampling
TB-101011

LLI Sample # WW 6433418
LLI Group # 1270564
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/10/2011 08:00

Submitted: 10/11/2011 09:15
Reported: 11/07/2011 12:21

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

10TB- SDG#: DE265-07TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11285A20A	10/13/2011 16:23	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11285A20A	10/13/2011 16:23	Marie D John	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270564
Reported: 11/07/11 at 12:21 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11285SLG026	Sample number(s): 6433414,6433417									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	98		70-130		
Batch number: 11286SLA026	Sample number(s): 6433412-6433414									
Aniline	170	U	170.	500	ug/kg	76		20-115		
Benzidine	1,200	U	1,200.	3,300	ug/kg	36		15-121		
Benzoic acid	170	U	170.	500	ug/kg	93		62-113		
Benzyl alcohol	170	U	170.	500	ug/kg	96		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	100		73-114		
2-butoxy-Ethanol	1,700	U	1,700.	1,700	ug/kg					
Butylbenzylphthalate	17	U	17.	170	ug/kg	93		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	94		79-112		
Carbazole	17	U	17.	170	ug/kg	94		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	101		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	36		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	99		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	96		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	95		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	74		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	95		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	97		74-115		
Dibenzofuran	17	U	17.	170	ug/kg	92		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	84		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	83		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	84		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	59		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	99		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	94		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	100		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	105		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	96		77-109		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	82		46-120		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	78		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	103		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	103		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	100		71-125		
Hexachlorobenzene	17	U	17.	170	ug/kg	102		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	94		65-117		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270564
Reported: 11/07/11 at 12:21 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	97		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	84		61-109		
Isophorone	17	U	17.	170	ug/kg	101		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	99		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	97		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	100		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	93		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	75		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	102		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	100		76-111		
4-Nitrophenol	170 U		170.	500	ug/kg	87		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	94		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	97		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	99		62-137		
Pentachlorophenol	170 U		170.	500	ug/kg	97		51-117		
Phenol	17	U	17.	170	ug/kg	100		58-112		
2-phenoxy-Ethanol	1,700 U		1,700.	1,700	ug/kg					
Tetralin	170 U		170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	92		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	103		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	100		78-111		
Batch number: 11286SLB026	Sample number(s): 6433412-6433414									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	97		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	90		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	99		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	103		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	100		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	111		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	104		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	97		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	122		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	125		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	98		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	110		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	107		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	102		79-121		
Bis(2-Ethylhexyl)phthalate	13	J	6.0	18	ug/kg	141		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	107		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	100		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	109		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	92		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	90		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	90		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	95		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	128		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	98		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	100		72-119		
Batch number: 11286WAH026	Sample number(s): 6433415-6433416									
N-Nitrosodimethylamine	1.14		0.500	1.00	ng/l	98	103	70-130	5	30
Batch number: 11285A20A	Sample number(s): 6433418									

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270564
Reported: 11/07/11 at 12:21 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	100	75-135	0	30
Batch number: 11290B16A	Sample number(s): 6433414									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	80		67-119		
Batch number: 112860003A	Sample number(s): 6433414									
20a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	101		80-126		
Batch number: 112850024A	Sample number(s): 6433412-6433414									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	74	82	36-106	11	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	88		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	109		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112850037A	Sample number(s): 6433414									
Ethanol	100 U		100.	500	ug/kg	89		71-129		
Isopropanol	100 U		100.	500	ug/kg	89		75-125		
Methanol	100 U		100.	500	ug/kg	86		68-129		
Batch number: 112870018A	Sample number(s): 6433414									
Diethylene glycol	5.0	U	5.0	10	mg/kg	94		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	95		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	84		67-131		
Batch number: 112860009A	Sample number(s): 6433414									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	96		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	99		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	100		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	84		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	85		49-107		
Batch number: 112870007A	Sample number(s): 6433414									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	102		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	107		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	100		69-109		
Batch number: 112851026001A	Sample number(s): 6433412-6433414									
Antimony	0.0740	U	0.0740	0.200	mg/kg	139		40-227		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	103		83-111		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	105		84-112		
Cadmium	0.0440	U	0.0440	0.100	mg/kg	105		83-111		
Chromium	0.120	U	0.120	0.400	mg/kg	114		77-123		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	110		85-114		
Copper	0.0800	U	0.0800	0.400	mg/kg	104		81-110		
Lead	0.0102	U	0.0102	0.200	mg/kg	104		84-112		
Nickel	0.100	U	0.100	0.400	mg/kg	102		81-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270564
Reported: 11/07/11 at 12:21 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Silver	0.0142	U	0.0142	0.100	mg/kg	106		83-112		
Thallium	0.0300	U	0.0300	0.100	mg/kg	103		82-112		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	107		76-110		
Zinc	0.560	U	0.560	3.00	mg/kg	102		82-110		
Batch number: 112851026001B	Sample number(s): 6433412-6433414									
Selenium	0.0580	U	0.0580	0.400	mg/kg	105		79-110		
Batch number: 112851026001C	Sample number(s): 6433412-6433414									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	106		80-110		
Batch number: 112851026001D	Sample number(s): 6433412-6433414									
Barium	0.106	U	0.106	0.400	mg/kg	106		83-110		
Batch number: 112855708001	Sample number(s): 6433412-6433414									
Aluminum	6.05	U	6.05	20.0	mg/kg	94		40-127		
Boron	0.599	J	0.360	5.00	mg/kg	108		83-110		
Calcium	13.1	J	2.50	20.0	mg/kg	107		81-110		
Iron	2.73	J	2.61	20.0	mg/kg	102		47-129		
Lithium	0.62	U	0.62	2.0	mg/kg	102		80-120		
Magnesium	0.891	J	0.440	10.0	mg/kg	99		63-116		
Manganese	0.0360	U	0.0360	0.500	mg/kg	107		85-116		
Phosphorus	1.39	J	0.350	10.0	mg/kg	107		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	108		71-110		
Sodium	5.95	U	5.95	100	mg/kg	108		76-110		
Strontium	0.0750	J	0.0250	0.500	mg/kg	108		84-110		
Tin	1.44	J	0.320	10.0	mg/kg	105		86-120		
Titanium	0.0710	U	0.0710	1.00	mg/kg	96		80-120		
Zirconium	0.460	U	0.460	5.00	mg/kg	103		80-120		
Batch number: 112855711001	Sample number(s): 6433412-6433414									
Mercury	0.0068	U	0.0068	0.0968	mg/kg	100		83-119		
Batch number: 11291243201A	Sample number(s): 6433412-6433414									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	81		80-120		
Batch number: 11292621201B	Sample number(s): 6433412-6433414									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	106		85-115		
Batch number: 11297495201A	Sample number(s): 6433412-6433414									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	102		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	103		90-110		
Batch number: 11294039401A	Sample number(s): 6433412-6433414									
17a pH by 9045C						100		95-105		
Batch number: 11286162401B	Sample number(s): 6433412-6433414,6433417									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

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Background (BKG) = the sample used in conjunction with the duplicate

	MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup RPD

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270564
Reported: 11/07/11 at 12:21 PM

Analysis Name	%REC	%REC	Limits	RPD	MAX	Conc	Conc	RPD	Max
Batch number: 11285SLG026	Sample number(s): 6433414,6433417 UNSPK: P432178								
N-Nitrosodimethylamine	89	105	70-130	16	30				
Batch number: 11286SLA026	Sample number(s): 6433412-6433414 UNSPK: P431133								
Aniline	77	85	18-116	9	30				
Benzidine	0*	0*	35-141	0	30				
Benzoic acid	93	100	10-173	7	30				
Benzyl alcohol	99	105	67-115	6	30				
4-Bromophenyl-phenylether	99	108	67-129	9	30				
Butylbenzylphthalate	92	97	73-134	6	30				
Di-n-butylphthalate	91	97	67-123	7	30				
Carbazole	90	94	64-120	5	30				
4-Chloro-3-methylphenol	99	106	62-122	7	30				
4-Chloroaniline	56	44	13-107	26	30				
bis(2-Chloroethoxy)methane	98	107*	75-104	9	30				
bis(2-Chloroethyl)ether	99	105	60-116	6	30				
bis(2-Chloroisopropyl)ether	98	102	55-142	5	30				
2-Chloronaphthalene	71	74	50-141	5	30				
2-Chlorophenol	97	104	73-121	7	30				
4-Chlorophenyl-phenylether	97	104	80-109	7	30				
Dibenzofuran	91	99	71-112	8	30				
1,2-Dichlorobenzene	86	92	66-108	6	30				
1,3-Dichlorobenzene	85	91	63-109	6	30				
1,4-Dichlorobenzene	86	91	58-108	6	30				
3,3'-Dichlorobenzidine	69	70	28-109	1	30				
2,4-Dichlorophenol	98	107	66-123	9	30				
Diethylphthalate	91	97	66-118	7	30				
2,4-Dimethylphenol	97	106	68-118	10	30				
3,5-Dimethylphenol	0*	0*	71-127	0	30				
Dimethylphthalate	93	100	64-118	7	30				
4,6-Dinitro-2-methylphenol	86	89	11-126	4	30				
2,4-Dinitrophenol	78	80	20-143	2	30				
2,4-Dinitrotoluene	98	104	56-129	6	30				
2,6-Dinitrotoluene	98	106	69-123	8	30				
1,2-Diphenylhydrazine	101	110	71-129	8	30				
Hexachlorobenzene	101	111	77-114	10	30				
Hexachlorobutadiene	97	104	62-120	7	30				
Hexachlorocyclopentadiene	85	87	10-153	3	30				
Hexachloroethane	87	92	57-109	5	30				
Isophorone	100	109*	73-102	9	30				
2-Methylphenol	101	107	75-111	6	30				
4-Methylphenol	100	106	59-123	6	30				
2-Nitroaniline	99	106	67-125	7	30				
3-Nitroaniline	90	95	59-122	5	30				
4-Nitroaniline	82	80	41-109	2	30				
Nitrobenzene	102	111	57-125	8	30				
2-Nitrophenol	98	109	56-127	10	30				
4-Nitrophenol	82	86	37-129	4	30				
N-Nitroso-di-n-propylamine	96	103	60-116	8	30				
N-Nitrosodiphenylamine	92	101	71-122	9	30				
Di-n-octylphthalate	104	109	56-126	5	30				
Pentachlorophenol	98	105	28-127	6	30				
Phenol	99	110	58-126	11	30				
1,2,4-Trichlorobenzene	93	102	72-115	9	30				
2,4,5-Trichlorophenol	101	109	58-129	7	30				
2,4,6-Trichlorophenol	101	109	56-134	7	30				
Batch number: 11286SLB026	Sample number(s): 6433412-6433414 UNSPK: P431134								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270564
Reported: 11/07/11 at 12:21 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Acenaphthene	83	81	63-105	3	30				
Acenaphthylene	82	78	67-114	6	30				
Anthracene	78	89	73-115	12	30				
Benzo(a)anthracene	48*	176*	59-128	78*	30				
Benzo(a)pyrene	57*	134	58-142	57*	30				
Benzo(b)fluoranthene	45*	137	54-163	55*	30				
Benzo(g,h,i)perylene	51	70	33-141	20	30				
Benzo(k)fluoranthene	59	108	57-153	44*	30				
Butylbenzylphthalate	177*	169	57-173	5	30				
Di-n-butylphthalate	102	103	65-148	1	30				
Chrysene	37*	162*	67-123	75*	30				
Dibenz(a,h)anthracene	68	74	22-133	9	30				
Diethylphthalate	106	0*	70-136	200*	30				
Dimethylphthalate	0*	0*	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	91	88	39-167	2	30				
Fluoranthene	1*	178*	51-149	87*	30				
Fluorene	86	83	66-122	4	30				
Indeno(1,2,3-cd)pyrene	57	80	21-143	25	30				
1-Methylnaphthalene	81	80	72-123	2	30				
2-Methylnaphthalene	84	82	64-103	3	30				
Naphthalene	87	81	61-102	7	30				
N-Nitrosodimethylamine	81	76	48-113	5	30				
Di-n-octylphthalate	171	171	40-192	0	30				
Phenanthrene	46*	72	62-122	25	30				
Pyrene	6*	178*	51-131	85*	30				
Batch number: 11290B16A	Sample number(s): 6433414 UNSPK: P435690								
9a TPH by EPA 8015B Gas C5-C12	73	65	39-118	7	30				
Batch number: 112860003A	Sample number(s): 6433414 UNSPK: 6433414								
20a Formaldehyde 8315A	94	108	80-120	14	50				
Batch number: 112850024A	Sample number(s): 6433412-6433414 UNSPK: P430028								
PCB-1016	105	98	29-146	7	50				
PCB-1260	109	113	39-149	4	50				
Batch number: 112850037A	Sample number(s): 6433414 UNSPK: P434468								
Ethanol	43*	70	48-130	48*	20				
Isopropanol	39	66	12-149	51*	20				
Methanol	43	70	43-138	49*	20				
Batch number: 112870018A	Sample number(s): 6433414 UNSPK: P434470								
Diethylene glycol	9*	8*	59-109	5	20				
Ethylene glycol	43*	42*	63-107	3	20				
Propylene glycol	52*	50*	63-107	3	20				
Batch number: 112860009A	Sample number(s): 6433414 UNSPK: P430028								
EFH (C12-C14)	85	85	49-123	0	20				
EFH (C15-C20)	106	112	49-123	5	20				
EFH (C21-C30)	111	135*	49-123	12	20				
EFH (C30 - C40)	171*	251*	49-123	19	20				
EFH (C8-C11)	68	67	49-123	2	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270564
Reported: 11/07/11 at 12:21 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 112870007A	Sample number(s): 6433414 UNSPK: P435690								
m-Terphenyl	93	95	75-125	1	20				
o-Terphenyl	107	107	75-125	0	20				
p-Terphenyl	85	90	75-125	6	20				
Batch number: 112851026001A	Sample number(s): 6433412-6433414 UNSPK: 6433412 BKG: 6433412								
Antimony	38*	33*	75-125	6	20	0.388	0.234	49* (1)	20
Arsenic	-241 (2)	-213 (2)	75-125	6	20	13.6	6.97	65*	20
Beryllium	115	104	75-125	5	20	0.713	0.610	16	20
Cadmium	121	123	75-125	1	20	0.286	0.201	35* (1)	20
Chromium	106	86	75-125	5	20	28.7	25.5	12	20
Cobalt	131*	123	75-125	5	20	11.1	8.64	25*	20
Copper	95	71*	75-125	8	20	21.5	16.6	26*	20
Lead	83	124	75-125	9	20	11.0	11.2	2	20
Nickel	129*	80	75-125	15	20	22.5	18.8	18	20
Silver	129*	129*	75-125	0	20	0.0877 J	0.0777 J	12 (1)	20
Thallium	111	113	75-125	1	20	0.433	0.432	0 (1)	20
Vanadium	44 (2)	34 (2)	75-125	2	20	56.1	47.1	17	20
Zinc	63 (2)	69 (2)	75-125	1	20	90.8	78.2	15	20
Batch number: 112851026001B	Sample number(s): 6433412-6433414 UNSPK: 6433412 BKG: 6433412								
Selenium	110	115	75-125	4	20	0.556	0.403	32* (1)	20
Batch number: 112851026001C	Sample number(s): 6433412-6433414 UNSPK: 6433412 BKG: 6433412								
Molybdenum	125	123	75-125	1	20	1.45	0.799	58*	20
Batch number: 112851026001D	Sample number(s): 6433412-6433414 UNSPK: 6433412 BKG: 6433412								
Barium	246 (2)	61 (2)	75-125	12	20	131	121	8	20
Batch number: 112855708001	Sample number(s): 6433412-6433414 UNSPK: 6433412 BKG: 6433412								
Aluminum	575 (2)	1076 (2)	75-125	6	20	14,300	15,100	5	20
Boron	103	102	84-115	1	20	0.356 U	0.356 U	0 (1)	20
Calcium	127 (2)	90 (2)	75-125	3	20	5,290	5,130	3	20
Iron	-29 (2)	1606 (2)	75-125	6	20	24,700	30,300	21*	20
Lithium	99	101	82-114	2	20	35.1	39.5	12	20
Magnesium	172 (2)	445 (2)	75-125	8	20	6,590	7,710	16	20
Manganese	67 (2)	66 (2)	75-125	0	20	362	322	11	20
Phosphorus	141 (2)	125 (2)	75-125	3	20	496	571	14	20
Potassium	116	143*	75-125	6	20	3,500	3,700	5	20
Sodium	99	99	75-125	0	20	112	122	9 (1)	20
Strontium	100	99	75-115	1	20	16.5	17.2	4	20
Tin	88	90	80-110	1	20	3.03 J	3.15 J	4 (1)	20
Titanium	261 (2)	339 (2)	75-125	5	20	1,400	1,580	12	20
Zirconium	99	99	81-110	0	20	2.38 J	2.88 J	19 (1)	20
Batch number: 112855711001	Sample number(s): 6433412-6433414 UNSPK: 6433412 BKG: 6433412								
Mercury	93	97	65-135	4	20	0.0237 J	0.0066 U	200* (1)	20
Batch number: 11291243201A	Sample number(s): 6433412-6433414 UNSPK: P435690 BKG: P435690								
3a Cr VI by EPA 7199	91		75-125			0.20 U	0.20 U	0 (1)	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270564
Reported: 11/07/11 at 12:21 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11292621201B	Sample number(s): 6433412-6433414 UNSPK: P432178 BKG: P432178								
7a Perchlorate EPA 314.0	105		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11297495201A	Sample number(s): 6433412-6433414 UNSPK: 6433412 BKG: 6433412								
11a Anions by 300.0 - Fluoride	79*		80-120			2.0	2.0	3 (1)	20
11a Anions by 300.0 - Nitrate	97		80-120			2.1	2.0	3 (1)	20
Batch number: 11294039401A	Sample number(s): 6433412-6433414 BKG: 6433413								
17a pH by 9045C						6.81	6.92	2	3
Batch number: 11286162401B	Sample number(s): 6433412-6433414,6433417 BKG: P430034								
Moisture Content by 160.3						7.6	7.6	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 21a NDMA by 1625C
Batch number: 11285SLG026

	N-Nitrosodimethylamine-d6
6433414	154*
6433417	131
Blank	175*
LCS	182*
MS	180*
MSD	147
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11286SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6433412	99	99	91	97	87	86
6433413	101	103	88	101	90	88
6433414	98	101	94	99	93	88
Blank	98	100	102	99	90	89
LCS	92	94	101	94	85	85
MS	96	97	100	93	85	83
MSD	102	103	107	101	90	89
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11286SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270564
Reported: 11/07/11 at 12:21 PM

Surrogate Quality Control

6433412	101	86	91
6433413	107	92	104
6433414	113	94	101
Blank	113	100	109
LCS	111	90	100
MS	88	77	84
MSD	88	75	85
Limits:	40-130	45-130	45-135

Analysis Name: 21b. NDMA in Water
Batch number: 11286WAH026

	N-Nitrosodimethylamine-d6
6433415	296*
6433416	148
Blank	153*
LCS	148
LCSD	160*
Limits:	50-150

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11285A20A

	Trifluorotoluene-F
6433418	88
Blank	88
LCS	113
LCSD	115
Limits:	63-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11290B16A

	Trifluorotoluene-F
6433414	87
Blank	84
LCS	92
MS	96
MSD	92
Limits:	61-122

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112850024A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6433412	105	105
6433413	88	106
6433414	99	107
Blank	123	141*
LCS	100	120
LCSD	106	122*

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270564
Reported: 11/07/11 at 12:21 PM

Surrogate Quality Control

MS	106	103
MSD	106	118
Limits:	53-139	45-120

Analysis Name: 20a Formaldehyde 8315A
Batch number: 112860003A

	Butyraldehyde
6433414	98
Blank	117
LCS	103
MS	106
MSD	95
Limits:	64-126

Analysis Name: 18a Alcohols by 8015B
Batch number: 112850037A

	Acetone
6433414	60
Blank	89
LCS	85
MS	34*
MSD	61
Limits:	42-138

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112860009A

	Chlorobenzene	Orthoterphenyl
6433414	83	90
Blank	88	90
LCS	79	90
MS	80	86
MSD	77	87
Limits:	37-125	47-145

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112870007A

	n-Triacontane-d62
6433414	91
Blank	76
LCS	76
MS	73
MSD	72
Limits:	19-152

Analysis Name: 19a Glycols by 8015B
Batch number: 112870018A

	Tetramethylene glycol

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270564
Reported: 11/07/11 at 12:21 PM

Surrogate Quality Control

6433414	72
Blank	84
LCS	87
MS	76
MSD	74
Limits:	29-137

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1270564 6433412-18

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-112-SA7-SB-0.0-0.1	10.10.11	1015	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-159-SA7-SB-3.0-4.0	10.10.11	1415	SOIL	NONE	2- 16 oz Jars	X	X	X	X	X	X	X	X													
SL-169-SA7-SB-3.5	10.10.11	0950	SOIL	NONE	2-Encores										X											
SL-169-SA7-SB-3.0-4.0	10.10.11	0955	SOIL	NONE	3- 16 oz Jars	X	X	X	X	X	X	X	X			X	X	X				X	X	X	X	
EB-SA7-SB-101011	10.10.11	1400	WATER	NONE	1-1 L Amber														X							HGL ASTM II WATER
TB-101011	10.10.11	0800	WATER	NONE	1-1 L Amber														X							
TB-101011	10.10.11	0800	SOIL	NONE	1-4 oz Jar														X							
TB-101011	10.10.11	0800	WATER	NONE	2-40 mL Vials										X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/10/2011 / 1630	Yang M/L LLI 10/11/11 0915	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No(s)**	
		8767 9857 5100	

Nicole Maljovec

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Tuesday, October 11, 2011 1:29 PM
To: Nicole Maljovec
Subject: SSFL COC 10/10/11-Sample name change

Hi Nicole

Could you please change the sample name from yesterday's COC?

SL-122-SA7-SB-0.0-0.1 should be SL-122-SA7-SB-0.0-1.0

Thank you!

Pam

From: Bloisa, Peggy
Sent: Tuesday, October 11, 2011 9:58 AM
To: Hartman, Pamela
Subject: RE: SSFL COC 10/10/11

Hi Pam - just curious if SL-112-SA7-SB-0.0-0.1 is the correct sample number or should the interval be 0.0-1.0 ?

Thanks! P

-----Original Message-----
From: Hartman, Pamela
Sent: Monday, October 10, 2011 4:17 PM
To: Bloisa, Peggy; Burgesser, Todd; 'Laura Rainey'; SAEnvEntry@lancasterlabs.com; TWallbom@dtsc.ca.gov; Zakowski, Cherie
Subject: SSFL COC 10/10/11

Subsurface continued today with the DPT in SA7 and hand augering in SA7/SA6. Please see attached COC.

Thanks,

Pam

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 31, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/11/2011
Group Number: 1270570
SDG: DX148
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-112-SA7-SB-0.0-1.0 Soil	6433433
SL-159-SA7-SB-3.0-4.0 Soil	6433434
SL-169-SA7-SB-3.0-4.0 Soil	6433435

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Dorothy M. Love

Dorothy M. Love
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-112-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA7-SB-0.0-1.0

LLI Sample # SW 6433433
LLI Group # 1270570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/10/2011 10:15

Submitted: 10/11/2011 09:15
Reported: 10/31/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD112 SDG#: DX148-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-112-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA7-SB-0.0-1.0

LLI Sample # SW 6433433
LLI Group # 1270570
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/10/2011 10:15

Submitted: 10/11/2011 09:15
Reported: 10/31/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD112 SDG#: DX148-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.137	J	0.0365	1.06	1
11031	12378-PeCDD	40321-76-4	0.525	J	0.0416	5.30	1
11031	123478-HxCDD	39227-28-6	0.547	J	0.0415	5.30	1
11031	123678-HxCDD	57653-85-7	1.70	JB	0.0427	5.30	1
11031	123789-HxCDD	19408-74-3	1.29	JB	0.0427	5.30	1
11031	1234678-HpCDD	35822-46-9	39.6	B	0.0723	5.30	1
11031	OCDD	3268-87-9	424	B	0.0740	10.6	1
11031	2378-TCDF	51207-31-9	0.519	J	0.0687	1.06	1
11031	12378-PeCDF	57117-41-6	0.663	JBQ	0.0410	5.30	1
11031	23478-PeCDF	57117-31-4	1.15	JB	0.0407	5.30	1
11031	123478-HxCDF	70648-26-9	0.658	JB	0.0314	5.30	1
11031	123678-HxCDF	57117-44-9	0.515	JB	0.0277	5.30	1
11031	123789-HxCDF	72918-21-9	0.258	JB	0.0516	5.30	1
11031	234678-HxCDF	60851-34-5	0.523	JB	0.0270	5.30	1
11031	1234678-HpCDF	67562-39-4	4.93	JB	0.0278	5.30	1
11031	1234789-HpCDF	55673-89-7	0.531	JBQ	0.0425	5.30	1
11031	OCDF	39001-02-0	10.4	JB	0.0324	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	95	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	45	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	79	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-112-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA7-SB-0.0-1.0

LLI Sample # SW 6433433
LLI Group # 1270570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/10/2011 10:15

Submitted: 10/11/2011 09:15
Reported: 10/31/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD112 SDG#: DX148-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-112-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-112-SA7-SB-0.0-1.0

LLI Sample # SW 6433433
LLI Group # 1270570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/10/2011 10:15

Submitted: 10/11/2011 09:15
Reported: 10/31/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD112 SDG#: DX148-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11293002	10/22/2011 18:25	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11293002	10/20/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11286162401B	10/13/2011 20:54	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-159-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-159-SA7-SB-3.0-4.0

LLI Sample # SW 6433434
LLI Group # 1270570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/10/2011 14:15

Submitted: 10/11/2011 09:15
Reported: 10/31/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD159 SDG#: DX148-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-159-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-159-SA7-SB-3.0-4.0

LLI Sample # SW 6433434
LLI Group # 1270570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/10/2011 14:15

Submitted: 10/11/2011 09:15
Reported: 10/31/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD159 SDG#: DX148-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0352	U	0.0352	1.04	1
11031	12378-PeCDD	40321-76-4	0.0643	JQ	0.0279	5.20	1
11031	123478-HxCDD	39227-28-6	0.0672	JQ	0.0273	5.20	1
11031	123678-HxCDD	57653-85-7	0.0199	U	0.0199	5.20	1
11031	123789-HxCDD	19408-74-3	0.0741	JBQ	0.0189	5.20	1
11031	1234678-HpCDD	35822-46-9	0.334	JB	0.0248	5.20	1
11031	OCDD	3268-87-9	0.615	JB	0.0223	10.4	1
11031	2378-TCDF	51207-31-9	0.0296	JQ	0.0280	1.04	1
11031	12378-PeCDF	57117-41-6	0.0892	JBQ	0.0155	5.20	1
11031	23478-PeCDF	57117-31-4	0.123	JB	0.0157	5.20	1
11031	123478-HxCDF	70648-26-9	0.0590	JBQ	0.0181	5.20	1
11031	123678-HxCDF	57117-44-9	0.0497	JB	0.0155	5.20	1
11031	123789-HxCDF	72918-21-9	0.0671	JBQ	0.0188	5.20	1
11031	234678-HxCDF	60851-34-5	0.0419	JBQ	0.0148	5.20	1
11031	1234678-HpCDF	67562-39-4	0.101	JB	0.0136	5.20	1
11031	1234789-HpCDF	55673-89-7	0.0416	JBQ	0.0240	5.20	1
11031	OCDF	39001-02-0	0.0980	JB	0.0323	10.4	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	90	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	95	23 - 140
13C12-OCDD	103	17 - 157
13C12-2378-TCDF	57	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	102	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	76	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-159-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-159-SA7-SB-3.0-4.0

LLI Sample # SW 6433434
LLI Group # 1270570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/10/2011 14:15

Submitted: 10/11/2011 09:15
Reported: 10/31/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD159 SDG#: DX148-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-159-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-159-SA7-SB-3.0-4.0

LLI Sample # SW 6433434
LLI Group # 1270570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/10/2011 14:15

Submitted: 10/11/2011 09:15
Reported: 10/31/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD159 SDG#: DX148-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11293002	10/22/2011 19:22	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11293002	10/20/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11286162401B	10/13/2011 20:54	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-169-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-169-SA7-SB-3.0-4.0

LLI Sample # SW 6433435
LLI Group # 1270570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/10/2011 09:55

Submitted: 10/11/2011 09:15
Reported: 10/31/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD169 SDG#: DX148-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-169-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-169-SA7-SB-3.0-4.0

LLI Sample # SW 6433435
LLI Group # 1270570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/10/2011 09:55

Submitted: 10/11/2011 09:15
Reported: 10/31/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD169 SDG#: DX148-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0383	U	0.0383	1.03	1
11031	12378-PeCDD	40321-76-4	0.0522	J	0.0273	5.17	1
11031	123478-HxCDD	39227-28-6	0.0331	JQ	0.0255	5.17	1
11031	123678-HxCDD	57653-85-7	0.124	JBQ	0.0269	5.17	1
11031	123789-HxCDD	19408-74-3	0.139	JBQ	0.0256	5.17	1
11031	1234678-HpCDD	35822-46-9	0.749	JB	0.0308	5.17	1
11031	OCDD	3268-87-9	4.64	JB	0.0289	10.3	1
11031	2378-TCDF	51207-31-9	0.0809	J	0.0331	1.03	1
11031	12378-PeCDF	57117-41-6	0.240	JBQ	0.0193	5.17	1
11031	23478-PeCDF	57117-31-4	0.138	JB	0.0197	5.17	1
11031	123478-HxCDF	70648-26-9	0.130	JBQ	0.0236	5.17	1
11031	123678-HxCDF	57117-44-9	0.0708	JB	0.0200	5.17	1
11031	123789-HxCDF	72918-21-9	0.0908	JBQ	0.0281	5.17	1
11031	234678-HxCDF	60851-34-5	0.0784	JBQ	0.0210	5.17	1
11031	1234678-HpCDF	67562-39-4	0.270	JB	0.0175	5.17	1
11031	1234789-HpCDF	55673-89-7	0.0638	JBQ	0.0311	5.17	1
11031	OCDF	39001-02-0	0.471	JB	0.0353	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	100	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	74	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-169-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-169-SA7-SB-3.0-4.0

LLI Sample # SW 6433435
LLI Group # 1270570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/10/2011 09:55

Submitted: 10/11/2011 09:15
Reported: 10/31/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD169 SDG#: DX148-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-169-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-169-SA7-SB-3.0-4.0

LLI Sample # SW 6433435
LLI Group # 1270570
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/10/2011 09:55

Submitted: 10/11/2011 09:15
Reported: 10/31/2011 10:22

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD169 SDG#: DX148-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11293002	10/22/2011 20:18	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11293002	10/20/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11286162401B	10/13/2011 20:54	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270570
Reported: 10/31/11 at 10:22 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11286162401B	Sample number(s): 6433433-6433435								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11293002	Sample number(s): 6433433-6433435								
2378-TCDD	0.0314 U	0.0314	1.00	ng/kg	106		67-158		
12378-PeCDD	0.0231 U	0.0231	5.00	ng/kg	105		70-142		
123478-HxCDD	0.0172 U	0.0172	5.00	ng/kg	100		70-164		
123678-HxCDD	0.0373 J	0.0179	5.00	ng/kg	96		76-134		
123789-HxCDD	0.0323 J	0.0162	5.00	ng/kg	101		64-162		
1234678-HpCDD	0.244 J	0.0198	5.00	ng/kg	99		70-140		
OCDD	0.356 J	0.0157	10.0	ng/kg	96		78-144		
2378-TCDF	0.0253 U	0.0253	1.00	ng/kg	101		75-158		
12378-PeCDF	0.0371 J	0.0138	5.00	ng/kg	103		80-134		
23478-PeCDF	0.0800 J	0.0135	5.00	ng/kg	95		68-160		
123478-HxCDF	0.0412 J	0.0144	5.00	ng/kg	100		72-134		
123678-HxCDF	0.0308 J	0.0122	5.00	ng/kg	99		84-130		
123789-HxCDF	0.0261 J	0.0158	5.00	ng/kg	100		78-130		
234678-HxCDF	0.0373 J	0.0132	5.00	ng/kg	97		70-156		
1234678-HpCDF	0.0886 J	0.00730	5.00	ng/kg	91		82-122		
1234789-HpCDF	0.0364 J	0.0126	5.00	ng/kg	98		78-138		
OCDF	0.107 J	0.0264	10.0	ng/kg	98		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11286162401B	Sample number(s): 6433433-6433435 BKG: P430034								
Moisture Content by 160.3						7.6	7.6	1	20
Batch number: 11293002	Sample number(s): 6433433-6433435 UNSPK: P430041								
2378-TCDD	107	108	67-158	1	25				
12378-PeCDD	105	105	70-142	0	25				
123478-HxCDD	99	101	70-164	2	25				
123678-HxCDD	95	96	76-134	1	25				
123789-HxCDD	102	102	64-162	0	25				
1234678-HpCDD	100	100	70-140	0	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270570
Reported: 10/31/11 at 10:22 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
OCDD	99	96	78-144	3	25				
2378-TCDF	101	99	75-158	2	25				
12378-PeCDF	103	102	80-134	0	25				
23478-PeCDF	96	95	68-160	0	25				
123478-HxCDF	98	100	72-134	3	25				
123678-HxCDF	101	100	84-130	1	25				
123789-HxCDF	101	100	78-130	1	25				
234678-HxCDF	99	98	70-156	1	25				
1234678-HpCDF	91	92	82-122	0	25				
1234789-HpCDF	99	98	78-138	1	25				
OCDF	98	98	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11293002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6433433	75	69	67	74	76	45
6433434	62	64	63	74	74	69
6433435	70	66	63	74	70	62
Blank	68	69	64	75	69	68
MS	70	68	68	78	75	72
MSD	74	74	71	78	78	75
OPR	66	68	65	72	69	73
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6433433	88	71	79	73	85	85
6433434	102	69	76	73	69	90
6433435	97	67	74	73	84	83
Blank	103	73	82	78	84	85
MS	102	72	78	75	89	88
MSD	96	80	87	78	89	89
OPR	96	76	84	74	80	81
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6433433	82	86	95	73	74
6433434	90	95	103	57	72
6433435	83	90	100	65	74
Blank	86	98	111	61	75
MS	87	94	105	66	76

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270570
Reported: 10/31/11 at 10:22 AM

Surrogate Quality Control

MSD	87	94	105	73	80
OPR	81	93	104	61	71
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1270570 6433433-35

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-112-SA7-SB-0.0-0.1	10.10.11	1015	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-159-SA7-SB-3.0-4.0	10.10.11	1415	SOIL	NONE	2- 16 oz Jars	X	X	X	X	X	X	X	X													
SL-169-SA7-SB-3.5	10.10.11	0950	SOIL	NONE	2-Encores										X											
SL-169-SA7-SB-3.0-4.0	10.10.11	0955	SOIL	NONE	3- 16 oz Jars	X	X	X	X	X	X	X	X			X	X	X				X	X	X	X	
EB-SA7-SB-101011	10.10.11	1400	WATER	NONE	1-1 L Amber														X							HGL ASTM II WATER
TB-101011	10.10.11	0800	WATER	NONE	1-1 L Amber														X							
TB-101011	10.10.11	0800	SOIL	NONE	1-4 oz Jar														X							
TB-101011	10.10.11	0800	WATER	NONE	2-40 mL Vials										X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/10/2011 / 1630	LLI 10/11/11 0915	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No(s)**	
		8767 9857 5100	

Nicole Maljovec

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Tuesday, October 11, 2011 1:29 PM
To: Nicole Maljovec
Subject: SSFL COC 10/10/11-Sample name change

Hi Nicole

Could you please change the sample name from yesterday's COC?

SL-122-SA7-SB-0.0-0.1 should be SL-122-SA7-SB-0.0-1.0

Thank you!

Pam

From: Bloisa, Peggy
Sent: Tuesday, October 11, 2011 9:58 AM
To: Hartman, Pamela
Subject: RE: SSFL COC 10/10/11

Hi Pam - just curious if SL-112-SA7-SB-0.0-0.1 is the correct sample number or should the interval be 0.0-1.0 ?

Thanks! P

-----Original Message-----
From: Hartman, Pamela
Sent: Monday, October 10, 2011 4:17 PM
To: Bloisa, Peggy; Burgesser, Todd; 'Laura Rainey'; SAEnvEntry@lancasterlabs.com; TWallbom@dtsc.ca.gov; Zakowski, Cherie
Subject: SSFL COC 10/10/11

Subsurface continued today with the DPT in SA7 and hand augering in SA7/SA6. Please see attached COC.

Thanks,

Pam

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 28, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/12/2011
Group Number: 1270785
SDG: DE266
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-265-SA6-SB-4.0-5.0 Soil	6434468
SL-147-SA7-SB-1.0-2.0 Soil	6434469
SL-155-SA7-SB-1.5-2.5 Soil	6434470
SL-009-SA3-SB-4.0-5.0 Soil	6434471
SL-049-SA7-SB-4.0-5.0 Soil	6434472
SL-162-SA7-SB-0.0-1.0 Soil	6434473
SL-166-SA7-SB-1.0-2.0 Soil	6434474
SL-167-SA7-SB-0.5-1.5 Soil	6434475
SL-168-SA7-SB-0.5-1.5 Soil	6434476
EB-SA7-SB-101111 Water	6434477
TB-101111 Water	6434478
TB-101111 Sand	6434479
TB-101111 Water	6434480

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Chad A. Moline
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-265-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-265-SA6-SB-4.0-5.0

LLI Sample # SW 6434468
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 08:47

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6601 SDG#: DE266-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	180	U	180	361		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-265-SA6-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-265-SA6-SB-4.0-5.0

LLI Sample # SW 6434468
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 08:47

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6601 SDG#: DE266-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.72	J	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	J	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		21.11

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-265-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-265-SA6-SB-4.0-5.0

LLI Sample # SW 6434468
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 08:47

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6601 SDG#: DE266-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	660	U	660	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1

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Sample Description: **SL-265-SA6-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-265-SA6-SB-4.0-5.0

LLI Sample # SW 6434468
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6601 SDG#: DE266-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.89	J	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	J	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	4.0		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	7.8		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,100		6.48	21.4		1
07914	Boron	7440-42-8	0.386	U	0.386	5.36		1
01650	Calcium	7440-70-2	2,220		2.68	21.4		1
01654	Iron	7439-89-6	20,900		2.80	21.4		1
01656	Lithium	7439-93-2	23.0		0.66	2.1		1
01657	Magnesium	7439-95-4	4,150		0.471	10.7		1
06958	Manganese	7439-96-5	269		0.0386	0.536		1
10145	Phosphorus	7723-14-0	207		0.375	10.7		1
01662	Potassium	7440-09-7	2,260		12.1	53.6		1
01667	Sodium	7440-23-5	118		6.38	107		1
07968	Strontium	7440-24-6	22.3		0.0268	0.536		1
06969	Tin	7440-31-5	3.02	J	0.343	10.7		1
06970	Titanium	7440-32-6	1,230		0.0761	1.07		1
10146	Zirconium	7440-67-7	2.90	J	0.493	5.36		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-265-SA6-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-265-SA6-SB-4.0-5.0

LLI Sample # SW 6434468
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 08:47

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6601 SDG#: DE266-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.182	J	0.0793	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.19		0.0857	0.429		2
06126	Barium	7440-39-3	120		0.114	0.429		2
06127	Beryllium	7440-41-7	0.781		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.103	J	0.0471	0.107		2
06131	Chromium	7440-47-3	23.4		0.129	0.429		2
06132	Cobalt	7440-48-4	5.62		0.0214	0.107		2
06133	Copper	7440-50-8	8.96		0.0857	0.429		2
06135	Lead	7439-92-1	6.04		0.0109	0.214		2
06138	Molybdenum	7439-98-7	0.500		0.0536	0.107		2
06139	Nickel	7440-02-0	14.8		0.107	0.429		2
06141	Selenium	7782-49-2	0.0999	J	0.0621	0.429		2
06142	Silver	7440-22-4	0.0402	J	0.0152	0.107		2
06145	Thallium	7440-28-0	0.288		0.0321	0.107		2
06148	Vanadium	7440-62-2	45.4		0.0236	0.107		2
06149	Zinc	7440-66-6	57.0		0.600	3.21		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0072	U	0.0072	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9		0.87	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.54		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.84		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.5		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-265-SA6-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-265-SA6-SB-4.0-5.0

LLI Sample # SW 6434468
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 08:47

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6601 SDG#: DE266-01

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-265-SA6-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11285SLG026	10/17/2011 22:04	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11290SLE026	10/20/2011 10:11	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11298SLA026	10/28/2011 02:44	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11285SLG026	10/13/2011 06:25	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11298SLA026	10/25/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLE026	10/18/2011 10:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11290B16A	10/18/2011 00:31	Laura M Krieger	21.11
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128525828	10/12/2011 14:15	Larry E Bevins	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128525828	10/12/2011 14:15	Larry E Bevins	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112880014A	10/20/2011 11:41	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112860003A	10/14/2011 18:28	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112860020A	10/19/2011 17:56	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112860020A	10/14/2011 06:45	Katheryne V Sponheimer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112860003A	10/13/2011 13:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880014A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112850037A	10/13/2011 19:11	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112870018A	10/18/2011 01:08	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112870007A	10/22/2011 01:40	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112860009A	10/15/2011 00:49	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112860009A	10/13/2011 14:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112870007A	10/14/2011 13:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112850037A	10/13/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112870018A	10/14/2011 17:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112855708001	10/21/2011 04:27	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112855708001	10/20/2011 02:07	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112855708001	10/21/2011 04:27	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112855708001	10/21/2011 04:27	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112855708001	10/20/2011 02:07	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112855708001	10/21/2011 04:27	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112855708001	10/20/2011 02:07	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112855708001	10/20/2011 02:07	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112855708001	10/21/2011 04:27	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112855708001	10/20/2011 02:07	Tara L Snyder	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-265-SA6-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-265-SA6-SB-4.0-5.0

LLI Sample # SW 6434468
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 08:47

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6601 SDG#: DE266-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112855708001	10/20/2011 02:07	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112855708001	10/21/2011 04:27	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112855708001	10/20/2011 02:07	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112855708001	10/20/2011 02:07	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112851026001A	10/13/2011 08:50	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112851026001A	10/13/2011 08:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112851026001D	10/13/2011 08:50	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112851026001A	10/13/2011 08:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112851026001A	10/13/2011 08:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112851026001A	10/13/2011 08:50	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112851026001A	10/13/2011 08:50	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112851026001A	10/13/2011 08:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112851026001A	10/13/2011 08:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112851026001C	10/13/2011 08:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112851026001A	10/13/2011 08:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112851026001B	10/13/2011 08:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112851026001A	10/13/2011 08:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112851026001A	10/13/2011 08:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112851026001A	10/13/2011 08:50	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112851026001A	10/13/2011 08:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112855711001	10/13/2011 08:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112855708001	10/12/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112851026001	10/12/2011 22:14	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112855711001	10/13/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11297495201A	10/25/2011 20:58	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11297495201A	10/25/2011 20:58	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11292621202A	10/20/2011 01:35	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11291243201A	10/20/2011 12:14	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11290102201A	10/17/2011 20:32	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11297495201A	10/24/2011 21:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11292621202A	10/19/2011 08:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11290102201A	10/17/2011 16:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11294039401A	10/21/2011 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-147-SA7-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-147-SA7-SB-1.0-2.0

LLI Sample # SW 6434469
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:22

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6602 SDG#: DE266-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-147-SA7-SB-1.0-2.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-147-SA7-SB-1.0-2.0

LLI Sample # SW 6434469
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:22

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6602 SDG#: DE266-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.79	J	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		23.32
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-147-SA7-SB-1.0-2.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-147-SA7-SB-1.0-2.0

LLI Sample # SW 6434469
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:22

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6602 SDG#: DE266-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,500		6.27	20.7		1
07914	Boron	7440-42-8	0.373	U	0.373	5.18		1
01650	Calcium	7440-70-2	2,330		2.59	20.7		1
01654	Iron	7439-89-6	18,500		2.70	20.7		1
01656	Lithium	7439-93-2	15.0		0.64	2.1		1
01657	Magnesium	7439-95-4	4,380		0.456	10.4		1
06958	Manganese	7439-96-5	237		0.0373	0.518		1
10145	Phosphorus	7723-14-0	303		0.363	10.4		1
01662	Potassium	7440-09-7	2,180		11.7	51.8		1
01667	Sodium	7440-23-5	69.6	J	6.17	104		1
07968	Strontium	7440-24-6	11.1		0.0259	0.518		1
06969	Tin	7440-31-5	2.81	J	0.332	10.4		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-147-SA7-SB-1.0-2.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-147-SA7-SB-1.0-2.0

LLI Sample # SW 6434469
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:22

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6602 SDG#: DE266-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06970	Titanium	7440-32-6	1,140		0.0736	1.04		1
10146	Zirconium	7440-67-7	1.56	J	0.477	5.18		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.152	J	0.0759	0.205		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.03		0.0821	0.410		2
06126	Barium	7440-39-3	62.0		0.109	0.410		2
06127	Beryllium	7440-41-7	0.455		0.0164	0.103		2
06128	Cadmium	7440-43-9	0.0452	U	0.0452	0.103		2
06131	Chromium	7440-47-3	13.9		0.123	0.410		2
06132	Cobalt	7440-48-4	5.87		0.0205	0.103		2
06133	Copper	7440-50-8	5.78		0.0821	0.410		2
06135	Lead	7439-92-1	4.26		0.0105	0.205		2
06138	Molybdenum	7439-98-7	0.286		0.0513	0.103		2
06139	Nickel	7440-02-0	7.57		0.103	0.410		2
06141	Selenium	7782-49-2	0.185	J	0.0595	0.410		2
06142	Silver	7440-22-4	0.0146	U	0.0146	0.103		2
06145	Thallium	7440-28-0	0.278		0.0308	0.103		2
06148	Vanadium	7440-62-2	31.7		0.0226	0.103		2
06149	Zinc	7440-66-6	53.7		0.575	3.08		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	U	0.0073	0.103		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.85	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	5.40		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.3		0.50	0.50		1

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Sample Description: **SL-147-SA7-SB-1.0-2.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-147-SA7-SB-1.0-2.0

LLI Sample # SW 6434469
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:22

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6602 SDG#: DE266-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-147-SA7-SB-1.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11290SLE026	10/20/2011	10:36	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11298SLA026	10/28/2011	03:17	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11298SLA026	10/25/2011	18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLE026	10/18/2011	10:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11290B16A	10/18/2011	01:08	Laura M Krieger	23.32
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128525828	10/12/2011	14:20	Larry E Bevins	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128525828	10/12/2011	14:20	Larry E Bevins	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112860020A	10/19/2011	18:15	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112860020A	10/14/2011	06:45	Katheryne V Sponheimer	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112850037A	10/13/2011	19:27	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112870018A	10/18/2011	01:21	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112870007A	10/21/2011	23:05	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112860009A	10/14/2011	22:01	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112860009A	10/13/2011	14:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112870007A	10/14/2011	13:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112850037A	10/13/2011	17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112870018A	10/14/2011	17:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112855708001	10/21/2011	04:31	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112855708001	10/20/2011	02:11	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112855708001	10/21/2011	04:31	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112855708001	10/21/2011	04:31	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112855708001	10/20/2011	02:11	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112855708001	10/21/2011	04:31	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112855708001	10/20/2011	02:11	Tara L Snyder	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-147-SA7-SB-1.0-2.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-147-SA7-SB-1.0-2.0

LLI Sample # SW 6434469
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:22

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6602 SDG#: DE266-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	112855708001	10/20/2011 02:11	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112855708001	10/21/2011 04:31	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112855708001	10/20/2011 02:11	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112855708001	10/20/2011 02:11	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112855708001	10/21/2011 04:31	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112855708001	10/20/2011 02:11	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112855708001	10/20/2011 02:11	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112851026001A	10/13/2011 08:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112851026001A	10/13/2011 08:53	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112851026001D	10/13/2011 08:53	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112851026001A	10/13/2011 08:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112851026001A	10/13/2011 08:53	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112851026001A	10/13/2011 08:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112851026001A	10/13/2011 08:53	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112851026001A	10/13/2011 08:53	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112851026001A	10/13/2011 08:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112851026001C	10/13/2011 08:53	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112851026001A	10/13/2011 08:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112851026001B	10/13/2011 08:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112851026001A	10/13/2011 08:53	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112851026001A	10/13/2011 08:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112851026001A	10/13/2011 08:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112851026001A	10/13/2011 08:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112855711001	10/13/2011 08:59	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112855708001	10/12/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112851026001	10/12/2011 22:14	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112855711001	10/13/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11297495201A	10/25/2011 21:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11292621202A	10/20/2011 02:44	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11291243201A	10/20/2011 12:40	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11290102201A	10/17/2011 20:33	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11297495201A	10/24/2011 21:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11292621202A	10/19/2011 08:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11290102201A	10/17/2011 16:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11294039401A	10/21/2011 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11291162401B	10/18/2011 21:20	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-155-SA7-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA7-SB-1.5-2.5

LLI Sample # SW 6434470
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 12:32

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6603 SDG#: DE266-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	22.2	J	17.2	34.4		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-155-SA7-SB-1.5-2.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-155-SA7-SB-1.5-2.5

LLI Sample # SW 6434470
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 12:32

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6603 SDG#: DE266-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	15	J	6.3	19		1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7		1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		26.65

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Sample Description: SL-155-SA7-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA7-SB-1.5-2.5

LLI Sample # SW 6434470
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 12:32

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6603 SDG#: DE266-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	59	U	59	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	39	U	39	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	79	U	79	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	79	U	79	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	39	U	39	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	39	U	39	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	39	U	39	120	10000000	1
10132	HMX	2691-41-0	98	U	98	290	10000000	1
10132	Nitrobenzene	98-95-3	39	U	39	120	10000000	1
10132	Nitroglycerin	55-63-0	790	U	790	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	79	U	79	120	10000000	1
10132	3-Nitrotoluene	99-08-1	98	U	98	120	10000000	1
10132	4-Nitrotoluene	99-99-0	79	U	79	120	10000000	1
10132	PETN	78-11-5	790	U	790	2,400	10000000	1
10132	RDX	121-82-4	49	U	49	120	10000000	1
10132	Tetryl	479-45-8	60	U	60	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	39	U	39	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	39	U	39	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	630	U	630	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1

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Sample Description: **SL-155-SA7-SB-1.5-2.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-155-SA7-SB-1.5-2.5

LLI Sample # SW 6434470
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 12:32

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6603 SDG#: DE266-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.6		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.6		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C21-C30)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	1.0	J	0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,500		6.06	20.0		1
07914	Boron	7440-42-8	0.361	U	0.361	5.01		1
01650	Calcium	7440-70-2	2,890		2.50	20.0		1
01654	Iron	7439-89-6	23,200		2.61	20.0		1
01656	Lithium	7439-93-2	24.7		0.62	2.0		1
01657	Magnesium	7439-95-4	6,010		0.441	10.0		1
06958	Manganese	7439-96-5	429		0.0361	0.501		1
10145	Phosphorus	7723-14-0	426		0.351	10.0		1
01662	Potassium	7440-09-7	3,360		11.3	50.1		1
01667	Sodium	7440-23-5	82.9	J	5.96	100		1
07968	Strontium	7440-24-6	14.5		0.0250	0.501		1
06969	Tin	7440-31-5	2.87	J	0.321	10.0		1
06970	Titanium	7440-32-6	1,330		0.0711	1.00		1
10146	Zirconium	7440-67-7	1.85	J	0.461	5.01		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-155-SA7-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA7-SB-1.5-2.5

LLI Sample # SW 6434470
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 12:32

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6603 SDG#: DE266-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.146	J	0.0741	0.200		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.28		0.0801	0.401		2
06126	Barium	7440-39-3	123		0.106	0.401		2
06127	Beryllium	7440-41-7	0.655		0.0160	0.100		2
06128	Cadmium	7440-43-9	0.123		0.0441	0.100		2
06131	Chromium	7440-47-3	27.8		0.120	0.401		2
06132	Cobalt	7440-48-4	9.38		0.0200	0.100		2
06133	Copper	7440-50-8	10.7		0.0801	0.401		2
06135	Lead	7439-92-1	5.45		0.0102	0.200		2
06138	Molybdenum	7439-98-7	0.728		0.0501	0.100		2
06139	Nickel	7440-02-0	19.8		0.100	0.401		2
06141	Selenium	7782-49-2	0.216	J	0.0581	0.401		2
06142	Silver	7440-22-4	0.0252	J	0.0142	0.100		2
06145	Thallium	7440-28-0	0.340		0.0300	0.100		2
06148	Vanadium	7440-62-2	49.3		0.0220	0.100		2
06149	Zinc	7440-66-6	67.3		0.561	3.00		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	J	0.0070	0.0992		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.85	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	J	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.49		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.88		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: SL-155-SA7-SB-1.5-2.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-155-SA7-SB-1.5-2.5

LLI Sample # SW 6434470
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 12:32

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6603 SDG#: DE266-03

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-155-SA7-SB-2.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11285SLG026	10/17/2011 22:24	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11290SLE026	10/20/2011 11:01	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11298SLA026	10/28/2011 03:50	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11285SLG026	10/13/2011 06:25	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11298SLA026	10/25/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLE026	10/18/2011 10:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11290B16A	10/18/2011 01:46	Laura M Krieger	26.65
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128525828	10/12/2011 14:21	Larry E Bevins	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128525828	10/12/2011 14:22	Larry E Bevins	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112880014A	10/20/2011 12:24	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112860003A	10/14/2011 18:37	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112860020A	10/19/2011 18:33	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112860020A	10/14/2011 06:45	Katheryne V Sponheimer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112860003A	10/13/2011 13:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880014A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112850037A	10/13/2011 19:44	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112870018A	10/18/2011 01:34	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112870007A	10/22/2011 00:33	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112860009A	10/14/2011 22:26	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112860009A	10/13/2011 14:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112870007A	10/14/2011 13:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112850037A	10/13/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112870018A	10/14/2011 17:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112855708001	10/21/2011 04:35	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112855708001	10/20/2011 02:15	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112855708001	10/21/2011 04:35	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112855708001	10/21/2011 04:35	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112855708001	10/20/2011 02:15	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112855708001	10/21/2011 04:35	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112855708001	10/20/2011 02:15	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112855708001	10/20/2011 02:15	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112855708001	10/21/2011 04:35	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112855708001	10/20/2011 02:15	Tara L Snyder	1

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Sample Description: **SL-155-SA7-SB-1.5-2.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-155-SA7-SB-1.5-2.5

LLI Sample # SW 6434470
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 12:32

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6603 SDG#: DE266-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112855708001	10/20/2011 02:15	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112855708001	10/21/2011 04:35	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112855708001	10/20/2011 02:15	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112855708001	10/20/2011 02:15	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112851026001A	10/13/2011 08:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112851026001A	10/13/2011 08:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112851026001D	10/13/2011 08:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112851026001A	10/13/2011 08:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112851026001A	10/13/2011 08:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112851026001A	10/13/2011 08:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112851026001A	10/13/2011 08:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112851026001A	10/13/2011 08:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112851026001A	10/13/2011 08:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112851026001C	10/13/2011 08:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112851026001A	10/13/2011 08:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112851026001B	10/13/2011 08:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112851026001A	10/13/2011 08:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112851026001A	10/13/2011 08:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112851026001A	10/13/2011 08:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112851026001A	10/13/2011 08:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112855711001	10/13/2011 09:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112855708001	10/12/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112851026001	10/12/2011 22:14	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112855711001	10/13/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11297495201A	10/25/2011 21:29	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11297495201A	10/25/2011 21:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11292621202A	10/20/2011 03:30	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11291243201A	10/20/2011 12:54	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11290102201A	10/17/2011 20:34	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11297495201A	10/24/2011 21:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11292621202A	10/19/2011 08:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11290102201A	10/17/2011 16:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11294039401A	10/21/2011 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-009-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA3-SB-4.0-5.0

LLI Sample # SW 6434471
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:05

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6604 SDG#: DE266-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-009-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA3-SB-4.0-5.0

LLI Sample # SW 6434471
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:05

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6604 SDG#: DE266-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.0	J	6.6	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	5.5	U	5.5	18		5
10225	Aroclor 5442	12642-23-8	5.5	U	5.5	18		5
10225	Aroclor 5460	11126-42-4	47		5.5	18		5
10225	PCB-1016	12674-11-2	1.8	U	1.8	9.4		5
10225	PCB-1221	11104-28-2	1.8	U	1.8	9.4		5
10225	PCB-1232	11141-16-5	1.8	U	1.8	9.4		5
10225	PCB-1242	53469-21-9	1.8	U	1.8	9.4		5
10225	PCB-1248	12672-29-6	1.8	U	1.8	9.4		5
10225	PCB-1254	11097-69-1	96		1.8	9.4		5
10225	PCB-1260	11096-82-5	55		2.1	9.4		5
10225	PCB-1262	37324-23-5	1.8	U	1.8	9.4		5
10225	PCB-1268	11100-14-4	1.8	U	1.8	9.4		5

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Sample Description: **SL-009-SA3-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA3-SB-4.0-5.0

LLI Sample # SW 6434471
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:05

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6604 SDG#: DE266-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,800		6.49	21.5		1
07914	Boron	7440-42-8	0.386	U	0.386	5.36		1
01650	Calcium	7440-70-2	3,350		2.68	21.5		1
01654	Iron	7439-89-6	19,800		2.80	21.5		1
01656	Lithium	7439-93-2	24.7		0.67	2.1		1
01657	Magnesium	7439-95-4	4,330		0.472	10.7		1
06958	Manganese	7439-96-5	333		0.0386	0.536		1
10145	Phosphorus	7723-14-0	264		0.375	10.7		1
01662	Potassium	7440-09-7	2,920		12.1	53.6		1
01667	Sodium	7440-23-5	1,530		6.38	107		1
07968	Strontium	7440-24-6	19.8		0.0268	0.536		1
06969	Tin	7440-31-5	4.24	J	0.343	10.7		1
06970	Titanium	7440-32-6	1,070		0.0762	1.07		1
10146	Zirconium	7440-67-7	1.82	J	0.493	5.36		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.298		0.0794	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.87		0.0858	0.429		2
06126	Barium	7440-39-3	98.4		0.114	0.429		2
06127	Beryllium	7440-41-7	0.913		0.0172	0.107		2
06128	Cadmium	7440-43-9	0.673		0.0472	0.107		2
06131	Chromium	7440-47-3	26.1		0.129	0.429		2
06132	Cobalt	7440-48-4	6.33		0.0215	0.107		2
06133	Copper	7440-50-8	42.8		0.0858	0.429		2
06135	Lead	7439-92-1	49.5		0.0109	0.215		2
06138	Molybdenum	7439-98-7	0.932		0.0536	0.107		2
06139	Nickel	7440-02-0	23.9		0.107	0.429		2
06141	Selenium	7782-49-2	0.100	J	0.0622	0.429		2
06142	Silver	7440-22-4	0.217		0.0152	0.107		2
06145	Thallium	7440-28-0	0.303		0.0322	0.107		2
06148	Vanadium	7440-62-2	35.9		0.0236	0.107		2
06149	Zinc	7440-66-6	90.2		0.601	3.22		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0712	J	0.0077	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	14.8		0.88	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.27	J	0.21	1.1		1

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Sample Description: **SL-009-SA3-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA3-SB-4.0-5.0

LLI Sample # SW 6434471
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:05

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6604 SDG#: DE266-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	9.61	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11290SLE026	10/20/2011	11:27	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11298SLA026	10/28/2011	06:14	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11298SLA026	10/25/2011	18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLE026	10/18/2011	10:00	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112860020A	10/19/2011	18:52	Jessica L Miller	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112860020A	10/14/2011	06:45	Katheryne V Sponheimer	1
01643	Aluminum	SW-846 6010B	1	112855708001	10/21/2011	04:39	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112855708001	10/20/2011	02:20	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112855708001	10/21/2011	04:39	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112855708001	10/21/2011	04:39	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112855708001	10/20/2011	02:20	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112855708001	10/21/2011	04:39	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112855708001	10/20/2011	02:20	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112855708001	10/20/2011	02:20	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112855708001	10/21/2011	04:39	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112855708001	10/20/2011	02:20	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112855708001	10/20/2011	02:20	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112855708001	10/21/2011	04:39	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112855708001	10/20/2011	02:20	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112855708001	10/20/2011	02:20	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112851026001A	10/13/2011	08:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112851026001A	10/13/2011	08:59	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112851026001D	10/13/2011	08:59	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112851026001A	10/13/2011	08:59	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112851026001A	10/13/2011	08:59	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-009-SA3-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA3-SB-4.0-5.0

LLI Sample # SW 6434471
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:05

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6604 SDG#: DE266-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112851026001A	10/13/2011 08:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112851026001A	10/13/2011 08:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112851026001A	10/13/2011 08:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112851026001A	10/13/2011 08:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112851026001C	10/13/2011 08:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112851026001A	10/13/2011 08:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112851026001B	10/13/2011 08:59	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112851026001A	10/13/2011 08:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112851026001A	10/13/2011 08:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112851026001A	10/13/2011 08:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112851026001A	10/13/2011 08:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112855711001	10/13/2011 09:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112855708001	10/12/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112851026001	10/12/2011 22:14	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112855711001	10/13/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11297495201A	10/25/2011 21:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11292621202A	10/20/2011 03:53	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11291243201A	10/20/2011 13:14	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11297495201A	10/24/2011 21:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11292621202A	10/19/2011 08:05	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11294039401A	10/21/2011 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11291162401B	10/18/2011 21:20	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-049-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA7-SB-4.0-5.0

LLI Sample # SW 6434472
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:25

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6605 SDG#: DE266-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.2	U	17.2	34.3		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Sample Description: **SL-049-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA7-SB-4.0-5.0

LLI Sample # SW 6434472
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:25

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6605 SDG#: DE266-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	2.2		0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.8		0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	1.7	J	0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	2.3		0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19		1
10138	Chrysene	218-01-9	1.2	J	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	34		6.2	19		1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19		1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7		1
10138	Pyrene	129-00-0	0.75	J	0.69	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		24.04

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Sample Description: SL-049-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA7-SB-4.0-5.0

LLI Sample # SW 6434472
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:25

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E6605 SDG#: DE266-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	83	U	83	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	83	U	83	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	120	10000000	1
10132	Nitroglycerin	55-63-0	830	U	830	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	83	U	83	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	83	U	83	120	10000000	1
10132	PETN	78-11-5	830	U	830	2,500	10000000	1
10132	RDX	121-82-4	52	U	52	120	10000000	1
10132	Tetryl	479-45-8	64	U	64	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	1,200	U	1,200	3,100		1
	Reporting limits were raised due to limited sample volume.							
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1

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Sample Description: **SL-049-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA7-SB-4.0-5.0

LLI Sample # SW 6434472
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:25

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6605 SDG#: DE266-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.6		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.6		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.2		1
10199	EFH (C15-C20)	n.a.	1.0	J	0.42	1.2		1
10199	EFH (C21-C30)	n.a.	5.9		0.42	1.2		1
10199	EFH (C30 - C40)	n.a.	21		0.42	1.2		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,900		6.05	20.0		1
07914	Boron	7440-42-8	0.360	U	0.360	5.00		1
01650	Calcium	7440-70-2	3,410		2.50	20.0		1
01654	Iron	7439-89-6	20,000		2.61	20.0		1
01656	Lithium	7439-93-2	25.2		0.62	2.0		1
01657	Magnesium	7439-95-4	4,650		0.440	10.0		1
06958	Manganese	7439-96-5	283		0.0360	0.500		1
10145	Phosphorus	7723-14-0	347		0.350	10.0		1
01662	Potassium	7440-09-7	2,670		11.3	50.0		1
01667	Sodium	7440-23-5	77.8	J	5.95	100		1
07968	Strontium	7440-24-6	13.8		0.0250	0.500		1
06969	Tin	7440-31-5	2.80	J	0.320	10.0		1
06970	Titanium	7440-32-6	1,140		0.0710	1.00		1
10146	Zirconium	7440-67-7	1.83	J	0.460	5.00		1

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Sample Description: SL-049-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-049-SA7-SB-4.0-5.0

LLI Sample # SW 6434472
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:25

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6605 SDG#: DE266-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.142	J	0.0762	0.206		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.77		0.0824	0.412		2
06126	Barium	7440-39-3	107		0.109	0.412		2
06127	Beryllium	7440-41-7	0.536		0.0165	0.103		2
06128	Cadmium	7440-43-9	0.119		0.0453	0.103		2
06131	Chromium	7440-47-3	19.3		0.124	0.412		2
06132	Cobalt	7440-48-4	6.87		0.0206	0.103		2
06133	Copper	7440-50-8	8.41		0.0824	0.412		2
06135	Lead	7439-92-1	5.32		0.0105	0.206		2
06138	Molybdenum	7439-98-7	0.432		0.0515	0.103		2
06139	Nickel	7440-02-0	14.2		0.103	0.412		2
06141	Selenium	7782-49-2	0.140	J	0.0598	0.412		2
06142	Silver	7440-22-4	0.0173	J	0.0146	0.103		2
06145	Thallium	7440-28-0	0.334		0.0309	0.103		2
06148	Vanadium	7440-62-2	39.2		0.0227	0.103		2
06149	Zinc	7440-66-6	73.4		0.577	3.09		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0087	J	0.0070	0.0988		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.83	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.92	J	0.83	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.64	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.49		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.15		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	3.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-049-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA7-SB-4.0-5.0

LLI Sample # SW 6434472
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:25

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6605 SDG#: DE266-05

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-049-SA7-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11285SLG026	10/17/2011 22:43	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11290SLE026	10/20/2011 11:52	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11298SLA026	10/28/2011 06:47	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11285SLG026	10/13/2011 06:25	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11298SLA026	10/25/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLE026	10/18/2011 10:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11290B16A	10/18/2011 03:01	Laura M Krieger	24.04
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128525828	10/12/2011 14:16	Larry E Bevins	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128525828	10/12/2011 14:17	Larry E Bevins	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112880014A	10/20/2011 13:06	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112860003A	10/14/2011 18:47	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112860020A	10/19/2011 19:11	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112860020A	10/14/2011 06:45	Katheryne V Sponheimer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112860003A	10/13/2011 13:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880014A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112850037A	10/13/2011 20:00	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112870018A	10/18/2011 02:12	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112870007A	10/22/2011 03:30	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112860009A	10/15/2011 04:01	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112860009A	10/13/2011 14:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112870007A	10/14/2011 13:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112850037A	10/13/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112870018A	10/14/2011 17:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112855708001	10/21/2011 04:43	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112855708001	10/20/2011 02:24	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112855708001	10/21/2011 04:43	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112855708001	10/21/2011 04:43	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112855708001	10/20/2011 02:24	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112855708001	10/21/2011 04:43	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112855708001	10/20/2011 02:24	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112855708001	10/20/2011 02:24	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112855708001	10/21/2011 04:43	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112855708001	10/20/2011 02:24	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112855708001	10/20/2011 02:24	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-049-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA7-SB-4.0-5.0

LLI Sample # SW 6434472
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:25

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6605 SDG#: DE266-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112855708001	10/21/2011 04:43	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112855708001	10/20/2011 02:24	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112855708001	10/20/2011 02:24	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112851026001A	10/13/2011 09:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112851026001A	10/13/2011 09:02	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112851026001D	10/13/2011 09:02	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112851026001A	10/13/2011 09:02	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112851026001A	10/13/2011 09:02	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112851026001A	10/13/2011 09:02	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112851026001A	10/13/2011 09:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112851026001A	10/13/2011 09:02	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112851026001A	10/13/2011 09:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112851026001C	10/13/2011 09:02	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112851026001A	10/13/2011 09:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112851026001B	10/13/2011 09:02	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112851026001A	10/13/2011 09:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112851026001A	10/13/2011 09:02	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112851026001A	10/13/2011 09:02	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112851026001A	10/13/2011 09:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112855711001	10/13/2011 09:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112855708001	10/12/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112851026001	10/12/2011 22:14	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112855711001	10/13/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11297495201A	10/25/2011 22:01	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11297495201A	10/25/2011 22:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11292621202A	10/20/2011 04:16	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11291243201A	10/20/2011 13:27	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11290102201B	10/17/2011 20:35	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11297495201A	10/24/2011 21:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11292621202A	10/19/2011 08:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11290102201B	10/17/2011 16:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11294039401A	10/21/2011 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-162-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA7-SB-0.0-1.0

LLI Sample # SW 6434473
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:15

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6606 SDG#: DE266-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	175	U	175	350		10
	Reporting limits were raised due to interference from the sample matrix.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Di-n-butylphthalate	84-74-2	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	Diethylphthalate	84-66-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	Dimethylphthalate	131-11-3	18	U	18	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-162-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-162-SA7-SB-0.0-1.0

LLI Sample # SW 6434473
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:15

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6606 SDG#: DE266-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	18	U	18	180		1
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.5	U	3.5	8.8		5
10138	Acenaphthylene	208-96-8	1.8	U	1.8	8.8		5
10138	Anthracene	120-12-7	1.8	U	1.8	8.8		5
10138	Benzo(a)anthracene	56-55-3	6.2	J	3.5	8.8		5
10138	Benzo(a)pyrene	50-32-8	7.6	J	3.5	8.8		5
10138	Benzo(b)fluoranthene	205-99-2	16		3.5	8.8		5
10138	Benzo(g,h,i)perylene	191-24-2	4.2	J	3.5	8.8		5
10138	Benzo(k)fluoranthene	207-08-9	9.1		3.5	8.8		5
10138	Butylbenzylphthalate	85-68-7	58	J	32	95		5
10138	Chrysene	218-01-9	6.9	J	1.8	8.8		5
10138	Dibenz(a,h)anthracene	53-70-3	3.5	U	3.5	8.8		5
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	78	J	32	95		5
10138	Fluoranthene	206-44-0	18		3.5	8.8		5
10138	Fluorene	86-73-7	3.5	U	3.5	8.8		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.8	J	3.5	8.8		5
10138	1-Methylnaphthalene	90-12-0	3.5	U	3.5	8.8		5
10138	2-Methylnaphthalene	91-57-6	3.5	U	3.5	8.8		5
10138	Naphthalene	91-20-3	3.5	U	3.5	8.8		5
10138	N-Nitrosodimethylamine	62-75-9	3.5	U	3.5	8.8		5
10138	Phenanthrene	85-01-8	5.2	J	3.5	8.8		5
10138	Pyrene	129-00-0	11		3.5	8.8		5
	Reporting limits were raised due to interference from the sample matrix.							
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-162-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-162-SA7-SB-0.0-1.0

LLI Sample # SW 6434473
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:15

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6606 SDG#: DE266-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	83	U	83	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	83	U	83	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	830	U	830	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	83	U	83	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	83	U	83	120	10000000	1
10132	PETN	78-11-5	830	U	830	2,500	10000000	1
10132	RDX	121-82-4	52	U	52	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	630	U	630	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	1.3	J	0.41	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-162-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-162-SA7-SB-0.0-1.0

LLI Sample # SW 6434473
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:15

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6606 SDG#: DE266-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.1	U	2.1	6.3		5
10199	EFH (C15-C20)	n.a.	2.1	U	2.1	6.3		5
10199	EFH (C21-C30)	n.a.	14		2.1	6.3		5
10199	EFH (C30 - C40)	n.a.	75		2.1	6.3		5
10199	EFH (C8-C11)	n.a.	2.1	U	2.1	6.3		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,500		6.33	20.9		1
07914	Boron	7440-42-8	0.377	U	0.377	5.23		1
01650	Calcium	7440-70-2	2,800		2.62	20.9		1
01654	Iron	7439-89-6	19,100		2.73	20.9		1
01656	Lithium	7439-93-2	24.3		0.65	2.1		1
01657	Magnesium	7439-95-4	4,180		0.461	10.5		1
06958	Manganese	7439-96-5	256		0.0377	0.523		1
10145	Phosphorus	7723-14-0	370		0.366	10.5		1
01662	Potassium	7440-09-7	3,120		11.8	52.3		1
01667	Sodium	7440-23-5	64.3	J	6.23	105		1
07968	Strontium	7440-24-6	13.9		0.0262	0.523		1
06969	Tin	7440-31-5	2.93	J	0.335	10.5		1
06970	Titanium	7440-32-6	1,120		0.0743	1.05		1
10146	Zirconium	7440-67-7	1.88	J	0.481	5.23		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.135	J	0.0759	0.205		2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-162-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-162-SA7-SB-0.0-1.0

LLI Sample # SW 6434473
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:15

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6606 SDG#: DE266-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.37		0.0821	0.411		2
06126	Barium	7440-39-3	100		0.109	0.411		2
06127	Beryllium	7440-41-7	0.525		0.0164	0.103		2
06128	Cadmium	7440-43-9	0.127		0.0452	0.103		2
06131	Chromium	7440-47-3	18.5		0.123	0.411		2
06132	Cobalt	7440-48-4	6.40		0.0205	0.103		2
06133	Copper	7440-50-8	8.65		0.0821	0.411		2
06135	Lead	7439-92-1	5.67		0.0105	0.205		2
06138	Molybdenum	7439-98-7	0.424		0.0513	0.103		2
06139	Nickel	7440-02-0	12.9		0.103	0.411		2
06141	Selenium	7782-49-2	0.121	J	0.0595	0.411		2
06142	Silver	7440-22-4	0.0222	J	0.0146	0.103		2
06145	Thallium	7440-28-0	0.308		0.0308	0.103		2
06148	Vanadium	7440-62-2	36.8		0.0226	0.103		2
06149	Zinc	7440-66-6	72.0		0.575	3.08		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0085	J	0.0073	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.95	J	0.85	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.27	J	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.65		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.4		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: **SL-162-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-162-SA7-SB-0.0-1.0

LLI Sample # SW 6434473
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:15

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6606 SDG#: DE266-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11285SLG026	10/17/2011 23:02	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11290SLE026	10/20/2011 12:18	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11298SLA026	10/28/2011 07:21	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11285SLG026	10/13/2011 06:25	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11298SLA026	10/25/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLE026	10/18/2011 10:00	Kerrie A Freeburn	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112880014A	10/20/2011 15:14	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112860003A	10/14/2011 18:56	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112860020A	10/19/2011 19:30	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112860020A	10/14/2011 06:45	Katheryne V Sponheimer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112860003A	10/13/2011 13:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880014A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112850037A	10/13/2011 20:17	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112870018A	10/18/2011 02:25	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112870007A	10/22/2011 04:14	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112860009A	10/15/2011 05:12	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112860009A	10/13/2011 14:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112870007A	10/14/2011 13:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112850037A	10/13/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112870018A	10/14/2011 17:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112855708001	10/21/2011 04:47	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112855708001	10/20/2011 02:28	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112855708001	10/21/2011 04:47	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112855708001	10/21/2011 04:47	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112855708001	10/20/2011 02:28	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112855708001	10/21/2011 04:47	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112855708001	10/20/2011 02:28	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112855708001	10/20/2011 02:28	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112855708001	10/21/2011 04:47	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112855708001	10/20/2011 02:28	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112855708001	10/20/2011 02:28	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112855708001	10/21/2011 04:47	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112855708001	10/20/2011 02:28	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112855708001	10/20/2011 02:28	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112851026001A	10/13/2011 09:05	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112851026001A	10/13/2011 09:05	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-162-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-162-SA7-SB-0.0-1.0

LLI Sample # SW 6434473
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:15

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6606 SDG#: DE266-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112851026001D	10/13/2011 09:05	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112851026001A	10/13/2011 09:05	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112851026001A	10/13/2011 09:05	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112851026001A	10/13/2011 09:05	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112851026001A	10/13/2011 09:05	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112851026001A	10/13/2011 09:05	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112851026001A	10/13/2011 09:05	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112851026001C	10/13/2011 09:05	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112851026001A	10/13/2011 09:05	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112851026001B	10/13/2011 09:05	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112851026001A	10/13/2011 09:05	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112851026001A	10/13/2011 09:05	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112851026001A	10/13/2011 09:05	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112851026001A	10/13/2011 09:05	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112855711001	10/13/2011 09:05	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112855708001	10/12/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112851026001	10/12/2011 22:14	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112855711001	10/13/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11297495201A	10/25/2011 22:48	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11297495201A	10/25/2011 22:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11292621202A	10/20/2011 04:39	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11291243201A	10/20/2011 13:34	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11290102201B	10/17/2011 20:39	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11297495201A	10/24/2011 21:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11292621202A	10/19/2011 08:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11290102201B	10/17/2011 16:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11294039401A	10/21/2011 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-166-SA7-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA7-SB-1.0-2.0

LLI Sample # SW 6434474
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 10:40

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6607 SDG#: DE266-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	174	U	174	348		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(a)anthracene	56-55-3	27	J	17	170		1
04688	Benzo(a)pyrene	50-32-8	25	J	17	170		1
04688	Benzo(b)fluoranthene	205-99-2	35	J	17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	18	J	17	170		1
04688	Benzo(k)fluoranthene	207-08-9	19	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Chrysene	218-01-9	30	J	17	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	17	U	17	340		1
04688	Fluoranthene	206-44-0	55	J	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	18	J	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-166-SA7-SB-1.0-2.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-166-SA7-SB-1.0-2.0

LLI Sample # SW 6434474
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 10:40

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6607 SDG#: DE266-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenanthrene	85-01-8	27	J	17	170		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	44	J	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.5	U	3.5	8.7		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.7		5
10138	Anthracene	120-12-7	2.9	J	1.7	8.7		5
10138	Dibenz(a,h)anthracene	53-70-3	3.5	U	3.5	8.7		5
10138	Fluorene	86-73-7	3.5	U	3.5	8.7		5
10138	1-Methylnaphthalene	90-12-0	3.5	U	3.5	8.7		5
10138	2-Methylnaphthalene	91-57-6	3.5	U	3.5	8.7		5
10138	Naphthalene	91-20-3	3.5	U	3.5	8.7		5
10138	N-Nitrosodimethylamine	62-75-9	3.5	U	3.5	8.7		5
	Reporting limits were raised due to interference from the sample matrix.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	2.4	U	2.4	12		281.53
	Reporting limits were raised due to sample foaming.							

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Sample Description: **SL-166-SA7-SB-1.0-2.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-166-SA7-SB-1.0-2.0

LLI Sample # SW 6434474
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 10:40

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6607 SDG#: DE266-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,500	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	630	U	630	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1

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SSFL Area IV Collocated Soil Sampling
SL-166-SA7-SB-1.0-2.0

LLI Sample # SW 6434474
LLI Group # 1270785
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 10:40

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E6607 SDG#: DE266-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8		1
10225	PCB-1260	11096-82-5	2.3		0.41	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	4.2	U	4.2	13		10
10199	EFH (C15-C20)	n.a.	4.2	U	4.2	13		10
10199	EFH (C21-C30)	n.a.	71		4.2	13		10
10199	EFH (C30 - C40)	n.a.	250		4.2	13		10
10199	EFH (C8-C11)	n.a.	4.2	U	4.2	13		10
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,800		6.26	20.7		1
07914	Boron	7440-42-8	0.372	U	0.372	5.17		1
01650	Calcium	7440-70-2	2,830		2.59	20.7		1
01654	Iron	7439-89-6	19,400		2.70	20.7		1
01656	Lithium	7439-93-2	25.1		0.64	2.1		1
01657	Magnesium	7439-95-4	4,350		0.455	10.3		1
06958	Manganese	7439-96-5	269		0.0372	0.517		1
10145	Phosphorus	7723-14-0	353		0.362	10.3		1
01662	Potassium	7440-09-7	3,040		11.7	51.7		1
01667	Sodium	7440-23-5	72.2	J	6.16	103		1
07968	Strontium	7440-24-6	13.0		0.0259	0.517		1
06969	Tin	7440-31-5	2.86	J	0.331	10.3		1
06970	Titanium	7440-32-6	1,190		0.0735	1.03		1
10146	Zirconium	7440-67-7	1.89	J	0.476	5.17		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-166-SA7-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-166-SA7-SB-1.0-2.0

LLI Sample # SW 6434474
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 10:40

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6607 SDG#: DE266-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.168	J	0.0766	0.207		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.64		0.0828	0.414		2
06126	Barium	7440-39-3	101		0.110	0.414		2
06127	Beryllium	7440-41-7	0.536		0.0166	0.103		2
06128	Cadmium	7440-43-9	0.132		0.0455	0.103		2
06131	Chromium	7440-47-3	17.6		0.124	0.414		2
06132	Cobalt	7440-48-4	6.26		0.0207	0.103		2
06133	Copper	7440-50-8	8.59		0.0828	0.414		2
06135	Lead	7439-92-1	6.71		0.0106	0.207		2
06138	Molybdenum	7439-98-7	0.408		0.0517	0.103		2
06139	Nickel	7440-02-0	12.7		0.103	0.414		2
06141	Selenium	7782-49-2	0.112	J	0.0600	0.414		2
06142	Silver	7440-22-4	0.0263	J	0.0147	0.103		2
06145	Thallium	7440-28-0	0.305		0.0310	0.103		2
06148	Vanadium	7440-62-2	37.3		0.0228	0.103		2
06149	Zinc	7440-66-6	83.7		0.579	3.10		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0099	J	0.0072	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.83	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.95	J	0.83	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.75		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.3		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: **SL-166-SA7-SB-1.0-2.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-166-SA7-SB-1.0-2.0

LLI Sample # SW 6434474
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 10:40

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6607 SDG#: DE266-07

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-166-SA7-SB-1.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11285SLG026	10/17/2011 23:21	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11290SLE026	10/20/2011 12:43	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11298SLA026	10/28/2011 08:27	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11285SLG026	10/13/2011 06:25	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11298SLA026	10/25/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLE026	10/18/2011 10:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11290B16A	10/18/2011 16:20	Laura M Krieger	281.53
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128525828	10/12/2011 14:23	Larry E Bevins	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128525828	10/12/2011 14:23	Larry E Bevins	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112880014A	10/20/2011 15:56	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112860003A	10/14/2011 19:06	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112860020A	10/19/2011 19:49	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112860020A	10/14/2011 06:45	Katheryne V Sponheimer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112860003A	10/13/2011 13:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880014A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112850037A	10/13/2011 20:33	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112870018A	10/18/2011 02:38	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112870007A	10/22/2011 06:49	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112860009A	10/15/2011 06:24	Heather E Williams	10
11238	EFH Extraction - Soils	SW-846 3550B	1	112860009A	10/13/2011 14:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112870007A	10/14/2011 13:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112850037A	10/13/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112870018A	10/14/2011 17:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112855708001	10/21/2011 04:50	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112855708001	10/20/2011 02:32	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112855708001	10/21/2011 04:50	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112855708001	10/21/2011 04:50	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112855708001	10/20/2011 02:32	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112855708001	10/21/2011 04:50	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112855708001	10/20/2011 02:32	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112855708001	10/20/2011 02:32	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112855708001	10/21/2011 04:50	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112855708001	10/20/2011 02:32	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112855708001	10/20/2011 02:32	Tara L Snyder	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-166-SA7-SB-1.0-2.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-166-SA7-SB-1.0-2.0

LLI Sample # SW 6434474
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 10:40

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14420 Albemarle Point Place
Suite 210
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E6607 SDG#: DE266-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112855708001	10/21/2011 04:50	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112855708001	10/20/2011 02:32	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112855708001	10/20/2011 02:32	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112851026001A	10/13/2011 09:08	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112851026001A	10/13/2011 09:08	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112851026001D	10/13/2011 09:08	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112851026001A	10/13/2011 09:08	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112851026001A	10/13/2011 09:08	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112851026001A	10/13/2011 09:08	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112851026001A	10/13/2011 09:08	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112851026001A	10/13/2011 09:08	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112851026001A	10/13/2011 09:08	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112851026001C	10/13/2011 09:08	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112851026001A	10/13/2011 09:08	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112851026001B	10/13/2011 09:08	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112851026001A	10/13/2011 09:08	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112851026001A	10/13/2011 09:08	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112851026001A	10/13/2011 09:08	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112851026001A	10/13/2011 09:08	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112855711001	10/13/2011 09:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112855708001	10/12/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112851026001	10/12/2011 22:14	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112855711001	10/13/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11297495201A	10/25/2011 23:04	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11297495201A	10/25/2011 23:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11292621202A	10/20/2011 05:03	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11291243201A	10/20/2011 13:47	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11290102201B	10/17/2011 20:40	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11297495201A	10/24/2011 21:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11292621202A	10/19/2011 08:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11290102201B	10/17/2011 16:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11294039401B	10/21/2011 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-167-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA7-SB-0.5-1.5

LLI Sample # SW 6434475
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 09:25

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6608 SDG#: DE266-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	174	U	174	349		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	57	J	17	170		1
04688	Aniline	62-53-3	170	U	170	520		1
04688	Anthracene	120-12-7	200		17	170		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzo(a)anthracene	56-55-3	970		17	170		1
04688	Benzo(a)pyrene	50-32-8	920		17	170		1
04688	Benzo(b)fluoranthene	205-99-2	1,200		17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	710		17	170		1
04688	Benzo(k)fluoranthene	207-08-9	490		17	170		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	250		17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Chrysene	218-01-9	1,200		17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	190		17	170		1
04688	Dibenzofuran	132-64-9	53	J	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J	17	350		1
04688	Fluoranthene	206-44-0	2,700		17	170		1
04688	Fluorene	86-73-7	58	J	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1

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Sample Description: SL-167-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA7-SB-0.5-1.5

LLI Sample # SW 6434475
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 09:25

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6608 SDG#: DE266-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	670		17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenanthrene	85-01-8	1,500		17	170		1
04688	Phenol	108-95-2	19	J	17	170		1
04688	Pyrene	129-00-0	2,100		17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthylene	208-96-8	1.8	U	1.8	8.8		5
10138	1-Methylnaphthalene	90-12-0	3.5	U	3.5	8.8		5
10138	2-Methylnaphthalene	91-57-6	3.5	U	3.5	8.8		5
10138	Naphthalene	91-20-3	3.5	U	3.5	8.8		5
10138	N-Nitrosodimethylamine	62-75-9	3.5	U	3.5	8.8		5
	Reporting limits were raised due to interference from the sample matrix.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		mg/kg		mg/kg	mg/kg	mg/kg	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.9	J	0.2	1.1		26.04

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Sample Description: SL-167-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA7-SB-0.5-1.5

LLI Sample # SW 6434475
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 09:25

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6608 SDG#: DE266-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	83	U	83	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	83	U	83	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	830	U	830	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	83	U	83	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	83	U	83	120	10000000	1
10132	PETN	78-11-5	830	U	830	2,500	10000000	1
10132	RDX	121-82-4	52	U	52	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	630	U	630	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	2.0	J	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.48	J	0.35	1.8		1

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Sample Description: **SL-167-SA7-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-167-SA7-SB-0.5-1.5

LLI Sample # SW 6434475
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 09:25

Submitted: 10/12/2011 09:00
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6608 SDG#: DE266-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	2.4		0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.1	U	2.1	6.3		5
10199	EFH (C15-C20)	n.a.	2.1	U	2.1	6.3		5
10199	EFH (C21-C30)	n.a.	17		2.1	6.3		5
10199	EFH (C30 - C40)	n.a.	93		2.1	6.3		5
10199	EFH (C8-C11)	n.a.	2.1	U	2.1	6.3		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,600		6.24	20.6		1
07914	Boron	7440-42-8	0.372	U	0.372	5.16		1
01650	Calcium	7440-70-2	3,220		2.58	20.6		1
01654	Iron	7439-89-6	19,900		2.69	20.6		1
01656	Lithium	7439-93-2	26.5		0.64	2.1		1
01657	Magnesium	7439-95-4	4,410		0.454	10.3		1
06958	Manganese	7439-96-5	271		0.0372	0.516		1
10145	Phosphorus	7723-14-0	363		0.361	10.3		1
01662	Potassium	7440-09-7	2,990		11.7	51.6		1
01667	Sodium	7440-23-5	64.9	J	6.14	103		1
07968	Strontium	7440-24-6	14.8		0.0258	0.516		1
06969	Tin	7440-31-5	2.95	J	0.330	10.3		1
06970	Titanium	7440-32-6	1,150		0.0733	1.03		1
10146	Zirconium	7440-67-7	1.89	J	0.475	5.16		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: **SL-167-SA7-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-167-SA7-SB-0.5-1.5

LLI Sample # SW 6434475
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 09:25

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6608 SDG#: DE266-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.163	J	0.0756	0.204		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.78		0.0818	0.409		2
06126	Barium	7440-39-3	104		0.108	0.409		2
06127	Beryllium	7440-41-7	0.577		0.0164	0.102		2
06128	Cadmium	7440-43-9	0.162		0.0450	0.102		2
06131	Chromium	7440-47-3	21.6		0.123	0.409		2
06132	Cobalt	7440-48-4	6.74		0.0204	0.102		2
06133	Copper	7440-50-8	8.76		0.0818	0.409		2
06135	Lead	7439-92-1	7.03		0.0104	0.204		2
06138	Molybdenum	7439-98-7	0.434		0.0511	0.102		2
06139	Nickel	7440-02-0	13.4		0.102	0.409		2
06141	Selenium	7782-49-2	0.101	J	0.0593	0.409		2
06142	Silver	7440-22-4	0.0378	J	0.0145	0.102		2
06145	Thallium	7440-28-0	0.312		0.0307	0.102		2
06148	Vanadium	7440-62-2	40.5		0.0225	0.102		2
06149	Zinc	7440-66-6	90.2		0.572	3.07		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0069	U	0.0069	0.0983		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.84	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2	J	0.84	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.88		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.0		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-167-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA7-SB-0.5-1.5

LLI Sample # SW 6434475
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 09:25

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6608 SDG#: DE266-08

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-167-SA7-SB-1.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11285SLG026	10/17/2011 23:40	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11290SLE026	10/20/2011 13:08	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11298SLA026	10/28/2011 09:01	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11285SLG026	10/13/2011 06:25	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11298SLA026	10/25/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLE026	10/18/2011 10:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11290B16A	10/18/2011 18:13	Laura M Krieger	26.04
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128525828	10/12/2011 14:17	Larry E Bevins	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128525828	10/12/2011 14:18	Larry E Bevins	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112880014A	10/20/2011 16:39	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112860003A	10/14/2011 19:25	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112860020A	10/19/2011 20:08	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112860020A	10/14/2011 06:45	Katheryne V Sponheimer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112860003A	10/13/2011 13:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880014A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112850037A	10/13/2011 20:50	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112870018A	10/18/2011 02:51	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112870007A	10/22/2011 04:59	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112860009A	10/15/2011 05:36	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112860009A	10/13/2011 14:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112870007A	10/14/2011 13:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112850037A	10/13/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112870018A	10/14/2011 17:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112855708001	10/21/2011 04:54	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112855708001	10/20/2011 02:36	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112855708001	10/21/2011 04:54	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112855708001	10/21/2011 04:54	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112855708001	10/20/2011 02:36	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112855708001	10/21/2011 04:54	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112855708001	10/20/2011 02:36	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112855708001	10/20/2011 02:36	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112855708001	10/21/2011 04:54	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112855708001	10/20/2011 02:36	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112855708001	10/20/2011 02:36	Tara L Snyder	1

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Sample Description: **SL-167-SA7-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-167-SA7-SB-0.5-1.5

LLI Sample # SW 6434475
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 09:25

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6608 SDG#: DE266-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112855708001	10/21/2011 04:54	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112855708001	10/20/2011 02:36	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112855708001	10/20/2011 02:36	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112851026001A	10/13/2011 09:17	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112851026001A	10/13/2011 09:17	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112851026001D	10/13/2011 09:17	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112851026001A	10/13/2011 09:17	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112851026001A	10/13/2011 09:17	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112851026001A	10/13/2011 09:17	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112851026001A	10/13/2011 09:17	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112851026001A	10/13/2011 09:17	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112851026001A	10/13/2011 09:17	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112851026001C	10/13/2011 09:17	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112851026001A	10/13/2011 09:17	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112851026001B	10/13/2011 09:17	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112851026001A	10/13/2011 09:17	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112851026001A	10/13/2011 09:17	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112851026001A	10/13/2011 09:17	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112851026001A	10/13/2011 09:17	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112855711001	10/13/2011 09:07	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112855708001	10/12/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112851026001	10/12/2011 22:14	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112855711001	10/13/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11297495201B	10/26/2011 00:07	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11297495201B	10/26/2011 00:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11292621202A	10/20/2011 05:26	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11291243201A	10/20/2011 14:01	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11290102201B	10/17/2011 20:41	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11297495201B	10/24/2011 21:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11292621202A	10/19/2011 08:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11290102201B	10/17/2011 16:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11294039401B	10/21/2011 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-168-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-168-SA7-SB-0.5-1.5

LLI Sample # SW 6434476
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 13:45

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6609 SDG#: DE266-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	171	U	171	342		10
Reporting limits were raised due to interference from the sample matrix.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(a)anthracene	56-55-3	38	J	17	170		1
04688	Benzo(a)pyrene	50-32-8	49	J	17	170		1
04688	Benzo(b)fluoranthene	205-99-2	65	J	17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	47	J	17	170		1
04688	Benzo(k)fluoranthene	207-08-9	27	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170		1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Chrysene	218-01-9	45	J	17	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	Diethylphthalate	84-66-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	Dimethylphthalate	131-11-3	17	U	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	30	J	17	340		1
04688	Fluoranthene	206-44-0	94	J	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	40	J	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-168-SA7-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-168-SA7-SB-0.5-1.5

LLI Sample # SW 6434476
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 13:45

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6609 SDG#: DE266-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	17	U	17	170		1
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenanthrene	85-01-8	49	J	17	170		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	80	J	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.5	U	3.5	8.7		5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.7		5
10138	Anthracene	120-12-7	1.7	U	1.7	8.7		5
10138	Dibenz(a,h)anthracene	53-70-3	3.5	U	3.5	8.7		5
10138	Fluorene	86-73-7	3.5	U	3.5	8.7		5
10138	1-Methylnaphthalene	90-12-0	3.5	U	3.5	8.7		5
10138	2-Methylnaphthalene	91-57-6	3.5	U	3.5	8.7		5
10138	Naphthalene	91-20-3	3.5	U	3.5	8.7		5
10138	N-Nitrosodimethylamine	62-75-9	3.5	U	3.5	8.7		5
	Reporting limits were raised due to interference from the sample matrix.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		26.43

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-168-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-168-SA7-SB-0.5-1.5

LLI Sample # SW 6434476
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 13:45

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6609 SDG#: DE266-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,400	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	62	U	62	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	620	U	620	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	2.1	J	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-168-SA7-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-168-SA7-SB-0.5-1.5

LLI Sample # SW 6434476
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 13:45

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6609 SDG#: DE266-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8		1
10225	PCB-1260	11096-82-5	4.0		0.41	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.6		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.6		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	2.1	U	2.1	6.2		5
10199	EFH (C15-C20)	n.a.	2.1	U	2.1	6.2		5
10199	EFH (C21-C30)	n.a.	32		2.1	6.2		5
10199	EFH (C30 - C40)	n.a.	120		2.1	6.2		5
10199	EFH (C8-C11)	n.a.	2.1	U	2.1	6.2		5
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,100		6.11	20.2		1
07914	Boron	7440-42-8	0.364	U	0.364	5.05		1
01650	Calcium	7440-70-2	2,920		2.53	20.2		1
01654	Iron	7439-89-6	19,100		2.64	20.2		1
01656	Lithium	7439-93-2	25.4		0.63	2.0		1
01657	Magnesium	7439-95-4	4,300		0.445	10.1		1
06958	Manganese	7439-96-5	269		0.0364	0.505		1
10145	Phosphorus	7723-14-0	371		0.354	10.1		1
01662	Potassium	7440-09-7	2,930		11.4	50.5		1
01667	Sodium	7440-23-5	63.1	J	6.01	101		1
07968	Strontium	7440-24-6	13.4		0.0253	0.505		1
06969	Tin	7440-31-5	2.82	J	0.323	10.1		1
06970	Titanium	7440-32-6	1,130		0.0717	1.01		1
10146	Zirconium	7440-67-7	1.85	J	0.465	5.05		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-168-SA7-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-168-SA7-SB-0.5-1.5

LLI Sample # SW 6434476
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 13:45

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6609 SDG#: DE266-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0933	J	0.0755	0.204		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	3.49		0.0816	0.408		2
06126	Barium	7440-39-3	79.0		0.108	0.408		2
06127	Beryllium	7440-41-7	0.414		0.0163	0.102		2
06128	Cadmium	7440-43-9	0.146		0.0449	0.102		2
06131	Chromium	7440-47-3	14.2		0.122	0.408		2
06132	Cobalt	7440-48-4	5.04		0.0204	0.102		2
06133	Copper	7440-50-8	6.34		0.0816	0.408		2
06135	Lead	7439-92-1	5.26		0.0104	0.204		2
06138	Molybdenum	7439-98-7	0.320		0.0510	0.102		2
06139	Nickel	7440-02-0	9.62		0.102	0.408		2
06141	Selenium	7782-49-2	0.0808	J	0.0592	0.408		2
06142	Silver	7440-22-4	0.0234	J	0.0145	0.102		2
06145	Thallium	7440-28-0	0.212		0.0306	0.102		2
06148	Vanadium	7440-62-2	27.8		0.0224	0.102		2
06149	Zinc	7440-66-6	72.1		0.571	3.06		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	U	0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.83	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.1	J	0.83	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.86		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	3.9		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-168-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-168-SA7-SB-0.5-1.5

LLI Sample # SW 6434476
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 13:45

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6609 SDG#: DE266-09

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-168-SA7-SB-1.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11285SLG026	10/17/2011 23:59	Matthew S Woods	10
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11290SLE026	10/20/2011 13:34	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11298SLA026	10/28/2011 09:34	Joseph M Gambler	5
11630	NDMA Soil Microwave	SW-846 3546	1	11285SLG026	10/13/2011 06:25	Roman Kuropatkin	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11298SLA026	10/25/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLE026	10/18/2011 10:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11290B16B	10/18/2011 20:06	Carrie E Miller	26.43
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128525828	10/12/2011 14:19	Larry E Bevins	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128525828	10/12/2011 14:19	Larry E Bevins	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112880014A	10/20/2011 17:21	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112860003A	10/14/2011 19:34	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112860020A	10/19/2011 20:26	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112860020A	10/14/2011 06:45	Katheryne V Sponheimer	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112860003A	10/13/2011 13:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880014A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112850037A	10/13/2011 21:06	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112870018A	10/18/2011 03:04	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112870007A	10/22/2011 05:43	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112860009A	10/15/2011 06:00	Heather E Williams	5
11238	EFH Extraction - Soils	SW-846 3550B	1	112860009A	10/13/2011 14:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112870007A	10/14/2011 13:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112850037A	10/13/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112870018A	10/14/2011 17:15	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112855708001	10/21/2011 05:06	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112855708001	10/20/2011 02:40	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112855708001	10/21/2011 05:06	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112855708001	10/21/2011 05:06	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112855708001	10/20/2011 02:40	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112855708001	10/21/2011 05:06	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112855708001	10/20/2011 02:40	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112855708001	10/20/2011 02:40	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112855708001	10/21/2011 05:06	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112855708001	10/20/2011 02:40	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112855708001	10/20/2011 02:40	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **SL-168-SA7-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-168-SA7-SB-0.5-1.5

LLI Sample # SW 6434476
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 13:45

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6609 SDG#: DE266-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112855708001	10/21/2011 05:06	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112855708001	10/20/2011 02:40	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112855708001	10/20/2011 02:40	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112851026001A	10/13/2011 09:20	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112851026001A	10/13/2011 09:20	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112851026001D	10/13/2011 09:20	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112851026001A	10/13/2011 09:20	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112851026001A	10/13/2011 09:20	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112851026001A	10/13/2011 09:20	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112851026001A	10/13/2011 09:20	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112851026001A	10/13/2011 09:20	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112851026001A	10/13/2011 09:20	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112851026001C	10/13/2011 09:20	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112851026001A	10/13/2011 09:20	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112851026001B	10/13/2011 09:20	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112851026001A	10/13/2011 09:20	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112851026001A	10/13/2011 09:20	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112851026001A	10/13/2011 09:20	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112851026001A	10/13/2011 09:20	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112855711001	10/13/2011 09:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112855708001	10/12/2011 22:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112851026001	10/12/2011 22:14	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112855711001	10/13/2011 01:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11297495201B	10/26/2011 00:22	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11297495201B	10/26/2011 00:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11292621202A	10/20/2011 05:49	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11291243201A	10/20/2011 14:14	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11290102201B	10/17/2011 20:44	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11297495201B	10/24/2011 21:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11292621202A	10/19/2011 08:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11290102201B	10/17/2011 16:45	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11294039401B	10/21/2011 14:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **EB-SA7-SB-101111 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-101111

LLI Sample # WW 6434477
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 14:30

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6610 SDG#: DE266-10EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/l	ng/l	ng/l	ng/l	
10962	N-Nitrosodimethylamine	62-75-9	3.07	0.483	0.965		1

The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.

N-nitrosodimethylamine was detected in the method blank at a concentration of 1.14 ng/l. The blank value was not subtracted from the analytical result.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11286WAH026	10/17/2011 18:15	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11286WAH026	10/14/2011 03:10	David V Hershey Jr	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-101111 Water**
SSFL Area IV Collocated Soil Sampling
TB-101111

LLI Sample # WW 6434478
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 08:00

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6611 SDG#: DE266-11TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/l	ng/l	ng/l	ng/l	
10962	N-Nitrosodimethylamine	62-75-9	1.16	0.499	0.997		1

The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.

N-nitrosodimethylamine was detected in the method blank at a concentration of 1.14 ng/l. The blank value was not subtracted from the analytical result.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11286WAH026	10/17/2011 18:34	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11286WAH026	10/14/2011 03:10	David V Hershey Jr	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-101111 Sand**
SSFL Area IV Collocated Soil Sampling
TB-101111

LLI Sample # SW 6434479
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 08:00

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6612 SDG#: DE266-12TB

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	16.6	U	16.6	33.1		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.50	U	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11285SLG026	10/18/2011 00:37	Matthew S Woods	1
11630	NDMA Soil Microwave	SW-846 3546	1	11285SLG026	10/13/2011 06:25	Roman Kuropatkin	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11291162401B	10/18/2011 21:20	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **TB-101111 Water**
SSFL Area IV Collocated Soil Sampling
TB-101111

LLI Sample # WW 6434480
LLI Group # 1270785
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 08:00

Submitted: 10/12/2011 09:00
Reported: 10/28/2011 13:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6613 SDG#: DE266-13TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11285A20A	10/13/2011	16:45	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11285A20A	10/13/2011	16:45	Marie D John	1

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270785
Reported: 10/28/11 at 01:28 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11285SLG026	Sample number(s): 6434468,6434470,6434472-6434476,6434479									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	98		70-130		
Batch number: 11286WAH026	Sample number(s): 6434477-6434478									
N-Nitrosodimethylamine	1.14		0.500	1.00	ng/l	98	103	70-130	5	30
Batch number: 11290SLE026	Sample number(s): 6434468-6434476									
Acenaphthene	17	U	17.	170	ug/kg	98		76-111		
Aniline	170 U		170.	500	ug/kg	74		20-115		
Anthracene	17	U	17.	170	ug/kg	98		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	43		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	98		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	100		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	101		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	94		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	100		67-125		
Benzoic acid	170 U		170.	500	ug/kg	63		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	113*		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	97		73-114		
Butylbenzylphthalate	17	U	17.	170	ug/kg	92		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	94		79-112		
Carbazole	17	U	17.	170	ug/kg	95		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	112		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	47		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	105		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	107*		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	107		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	71		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	109		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	104		74-115		
Chrysene	17	U	17.	170	ug/kg	96		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	100		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	98		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	91		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	90		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	91		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	42		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	107		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	99		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	109		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	118		83-120		

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270785
Reported: 10/28/11 at 01:28 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dimethylphthalate	17	U	17.	170	ug/kg	100		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	41*		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	22		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	109		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	106		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	103		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	96		75-117		
Fluoranthene	17	U	17.	170	ug/kg	102		78-116		
Fluorene	17	U	17.	170	ug/kg	101		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	100		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	93		65-117		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	92		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	90		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	97		64-119		
Isophorone	17	U	17.	170	ug/kg	109		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	116*		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	113		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	107		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	99		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	75		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	110		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	105		76-111		
4-Nitrophenol	170 U		170.	500	ug/kg	89		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	109*		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	96		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	101		62-137		
Pentachlorophenol	170 U		170.	500	ug/kg	86		51-117		
Phenanthrene	17	U	17.	170	ug/kg	93		77-113		
Phenol	17	U	17.	170	ug/kg	112		58-112		
Pyrene	17	U	17.	170	ug/kg	95		75-115		
Tetralin	170 U		170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	95		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	104		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	102		78-111		
Batch number: 11298SLA026	Sample number(s): 6434468-6434476									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	102		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	94		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	100		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	99		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	98		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	104		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	100		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	103		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	110		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	124		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	101		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	104		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	110		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	105		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	129		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	102		64-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270785
Reported: 10/28/11 at 01:28 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Fluorene	0.67	U	0.67	1.7	ug/kg	103		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	102		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	91		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	95		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	94		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	110		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	96		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	99		72-119		
Batch number: 11285A20A	Sample number(s): 6434480									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	100	75-135	0	30
Batch number: 11290B16A	Sample number(s): 6434468-6434470,6434472,6434474-6434475									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	80		67-119		
Batch number: 11290B16B	Sample number(s): 6434476									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	80		67-119		
Batch number: 112880014A	Sample number(s): 6434468,6434470,6434472-6434476									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	108		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	106		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	85	85	54-134	0	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	84	85	54-134	0	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	109		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	100		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	106		80-120		
HMX	100	U	100.	300	ug/kg	91		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	103		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	86		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	101		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	107		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	100		80-120		
PETN	800	U	800.	2,400	ug/kg	101		80-120		
RDX	50	U	50.	120	ug/kg	101		75-131		
Tetryl	61	U	61.	120	ug/kg	97		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	103		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	107		80-120		
Batch number: 112860003A	Sample number(s): 6434468,6434470,6434472-6434476									
20a Formaldehyde 8315A	600	U	600.	1,500	ug/kg	101		80-126		
Batch number: 112860020A	Sample number(s): 6434468-6434476									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	67	79	36-106	16	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	82		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	97		65-137		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270785
Reported: 10/28/11 at 01:28 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112850037A	Sample number(s): 6434468-6434470,6434472-6434476									
Ethanol	100 U		100.	500	ug/kg	89		71-129		
Isopropanol	100 U		100.	500	ug/kg	89		75-125		
Methanol	100 U		100.	500	ug/kg	86		68-129		
Batch number: 112870018A	Sample number(s): 6434468-6434470,6434472-6434476									
Diethylene glycol	5.0	U	5.0	10	mg/kg	94		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	95		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	84		67-131		
Batch number: 112860009A	Sample number(s): 6434468-6434470,6434472-6434476									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	96		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	99		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	100		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	84		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	85		49-107		
Batch number: 112870007A	Sample number(s): 6434468-6434470,6434472-6434476									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	102		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	107		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	100		69-109		
Batch number: 112851026001A	Sample number(s): 6434468-6434476									
Antimony	0.0740	U	0.0740	0.200	mg/kg	139		40-227		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	103		83-111		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	105		84-112		
Cadmium	0.0440	U	0.0440	0.100	mg/kg	105		83-111		
Chromium	0.120	U	0.120	0.400	mg/kg	114		77-123		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	110		85-114		
Copper	0.0800	U	0.0800	0.400	mg/kg	104		81-110		
Lead	0.0102	U	0.0102	0.200	mg/kg	104		84-112		
Nickel	0.100	U	0.100	0.400	mg/kg	102		81-110		
Silver	0.0142	U	0.0142	0.100	mg/kg	106		83-112		
Thallium	0.0300	U	0.0300	0.100	mg/kg	103		82-112		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	107		76-110		
Zinc	0.560	U	0.560	3.00	mg/kg	102		82-110		
Batch number: 112851026001B	Sample number(s): 6434468-6434476									
Selenium	0.0580	U	0.0580	0.400	mg/kg	105		79-110		
Batch number: 112851026001C	Sample number(s): 6434468-6434476									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	106		80-110		
Batch number: 112851026001D	Sample number(s): 6434468-6434476									
Barium	0.106	U	0.106	0.400	mg/kg	106		83-110		
Batch number: 112855708001	Sample number(s): 6434468-6434476									
Aluminum	6.05	U	6.05	20.0	mg/kg	94		40-127		
Boron	0.599	J	0.360	5.00	mg/kg	108		83-110		
Calcium	13.1	J	2.50	20.0	mg/kg	107		81-110		
Iron	2.73	J	2.61	20.0	mg/kg	102		47-129		
Lithium	0.62	U	0.62	2.0	mg/kg	102		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270785
Reported: 10/28/11 at 01:28 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Magnesium	0.891	J	0.440	10.0	mg/kg	99		63-116		
Manganese	0.0360	U	0.0360	0.500	mg/kg	107		85-116		
Phosphorus	1.39	J	0.350	10.0	mg/kg	107		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	108		71-110		
Sodium	5.95	U	5.95	100	mg/kg	108		76-110		
Strontium	0.0750	J	0.0250	0.500	mg/kg	108		84-110		
Tin	1.44	J	0.320	10.0	mg/kg	105		86-120		
Titanium	0.0710	U	0.0710	1.00	mg/kg	96		80-120		
Zirconium	0.460	U	0.460	5.00	mg/kg	103		80-120		
Batch number: 112855711001	Sample number(s): 6434468-6434476									
Mercury	0.0068	U	0.0068	0.0968	mg/kg	100		83-119		
Batch number: 11290102201A	Sample number(s): 6434468-6434470									
16a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	100		80-120		
Batch number: 11290102201B	Sample number(s): 6434472-6434476									
16a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	100		80-120		
Batch number: 11291243201A	Sample number(s): 6434468-6434476									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	81		80-120		
Batch number: 11292621202A	Sample number(s): 6434468-6434476									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	111		85-115		
Batch number: 11297495201A	Sample number(s): 6434468-6434474									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	102		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	103		90-110		
Batch number: 11297495201B	Sample number(s): 6434475-6434476									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	102		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	103		90-110		
Batch number: 11294039401A	Sample number(s): 6434468-6434473									
17a pH by 9045C						100		95-105		
Batch number: 11294039401B	Sample number(s): 6434474-6434476									
17a pH by 9045C						100		95-105		
Batch number: 11291162401B	Sample number(s): 6434469,6434471,6434479									
Moisture Content by 160.3						100		80-120		
Batch number: 11298162401A	Sample number(s): 6434468,6434470,6434472-6434476									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11285SLG026	Sample number(s): 6434468,6434470,6434472-6434476,6434479 UNSPK: P432178								
N-Nitrosodimethylamine	89	105	70-130	16	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270785
Reported: 10/28/11 at 01:28 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11290SLE026	Sample number(s): 6434468-6434476 UNSPK: P435690								
Acenaphthene	98	97	75-115	1	30				
Aniline	72	71	18-116	2	30				
Anthracene	101	97	75-115	4	30				
Benzidine	38	37	35-141	4	30				
Benzo(a)anthracene	100	97	65-122	3	30				
Benzo(a)pyrene	103	99	57-126	4	30				
Benzo(b)fluoranthene	108	100	59-125	8	30				
Benzo(g,h,i)perylene	110	104	59-127	5	30				
Benzo(k)fluoranthene	94	93	56-132	2	30				
Benzoic acid	0*	0*	10-173	0	30				
Benzyl alcohol	106	103	67-115	2	30				
4-Bromophenyl-phenylether	106	102	67-129	4	30				
Butylbenzylphthalate	99	95	73-134	4	30				
Di-n-butylphthalate	97	93	67-123	4	30				
Carbazole	96	93	64-120	3	30				
4-Chloro-3-methylphenol	110	109	62-122	1	30				
4-Chloroaniline	62	68	13-107	9	30				
bis(2-Chloroethoxy)methane	103	102	75-104	1	30				
bis(2-Chloroethyl)ether	100	96	60-116	4	30				
bis(2-Chloroisopropyl)ether	101	97	55-142	4	30				
2-Chloronaphthalene	81	79	50-141	3	30				
2-Chlorophenol	101	101	73-121	1	30				
4-Chlorophenyl-phenylether	103	102	80-109	2	30				
Chrysene	95	92	62-128	4	30				
Dibenz(a,h)anthracene	114	108	65-125	5	30				
Dibenzofuran	98	97	71-112	2	30				
1,2-Dichlorobenzene	86	85	66-108	1	30				
1,3-Dichlorobenzene	84	82	63-109	3	30				
1,4-Dichlorobenzene	85	83	58-108	3	30				
3,3'-Dichlorobenzidine	55	59	28-109	7	30				
2,4-Dichlorophenol	101	104	66-123	3	30				
Diethylphthalate	96	94	66-118	2	30				
2,4-Dimethylphenol	106	105	68-118	2	30				
3,5-Dimethylphenol	118	118	71-127	0	30				
Dimethylphthalate	98	95	64-118	2	30				
4,6-Dinitro-2-methylphenol	10*	12	11-126	14	30				
2,4-Dinitrophenol	0*	0*	20-143	0	30				
2,4-Dinitrotoluene	103	101	56-129	2	30				
2,6-Dinitrotoluene	103	102	69-123	1	30				
1,2-Diphenylhydrazine	109	105	71-129	3	30				
bis(2-Ethylhexyl)phthalate	102	100	63-122	2	30				
Fluoranthene	99	97	73-112	2	30				
Fluorene	102	100	63-121	1	30				
Hexachlorobenzene	108	104	77-114	4	30				
Hexachlorobutadiene	96	95	62-120	1	30				
Hexachlorocyclopentadiene	47	48	10-153	3	30				
Hexachloroethane	84	81	57-109	3	30				
Indeno(1,2,3-cd)pyrene	112	107	61-126	4	30				
Isophorone	108*	107*	73-102	1	30				
2-Methylphenol	108	106	75-111	2	30				
4-Methylphenol	107	104	59-123	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270785
Reported: 10/28/11 at 01:28 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Nitroaniline	106	108	67-125	2	30				
3-Nitroaniline	97	96	59-122	1	30				
4-Nitroaniline	79	76	41-109	4	30				
Nitrobenzene	109	108	57-125	1	30				
2-Nitrophenol	89	104	56-127	16	30				
4-Nitrophenol	66	78	37-129	17	30				
N-Nitroso-di-n-propylamine	102	100	60-116	3	30				
N-Nitrosodiphenylamine	101	96	71-122	5	30				
Di-n-octylphthalate	105	100	56-126	4	30				
Pentachlorophenol	24*	41	28-127	52*	30				
Phenanthrene	97	93	65-125	4	30				
Phenol	105	102	58-126	3	30				
Pyrene	99	95	74-126	3	30				
1,2,4-Trichlorobenzene	96	97	72-115	0	30				
2,4,5-Trichlorophenol	92	102	58-129	9	30				
2,4,6-Trichlorophenol	85	100	56-134	16	30				
Batch number: 11298SLA026	Sample number(s): 6434468-6434476 UNSPK: P437195								
Acenaphthene	93	100	63-105	7	30				
Acenaphthylene	90	97	67-114	7	30				
Anthracene	94	102	73-115	8	30				
Benzo(a)anthracene	95	101	59-128	6	30				
Benzo(a)pyrene	93	99	58-142	6	30				
Benzo(b)fluoranthene	98	105	54-163	7	30				
Benzo(g,h,i)perylene	78	85	33-141	9	30				
Benzo(k)fluoranthene	97	103	57-153	5	30				
Butylbenzylphthalate	107	120	57-173	11	30				
Di-n-butylphthalate	112	159*	65-148	34*	30				
Chrysene	94	101	67-123	7	30				
Dibenz(a,h)anthracene	85	94	22-133	10	30				
Diethylphthalate	102	126	70-136	21	30				
Dimethylphthalate	100	107	74-118	7	30				
Bis(2-Ethylhexyl)phthalate	119	100	39-167	13	30				
Fluoranthene	97	104	51-149	7	30				
Fluorene	97	104	66-122	7	30				
Indeno(1,2,3-cd)pyrene	84	92	21-143	9	30				
1-Methylnaphthalene	87	94	72-123	8	30				
2-Methylnaphthalene	85	92	64-103	7	30				
Naphthalene	90	95	61-102	5	30				
N-Nitrosodimethylamine	88	94	48-113	7	30				
Di-n-octylphthalate	139	113	40-192	21	30				
Phenanthrene	90	98	62-122	8	30				
Pyrene	94	100	51-131	6	30				
Batch number: 11290B16A	Sample number(s): 6434468-6434470,6434472,6434474-6434475 UNSPK: P435690								
9a TPH by EPA 8015B Gas C5-C12	73	65	39-118	7	30				
Batch number: 11290B16B	Sample number(s): 6434476 UNSPK: P435690								
9a TPH by EPA 8015B Gas C5-C12	73	65	39-118	7	30				
Batch number: 112880014A	Sample number(s): 6434468,6434470,6434472-6434476 UNSPK: P435690								
4-Amino-2,6-Dinitrotoluene	109	110	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	109	107	80-137	1	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270785
Reported: 10/28/11 at 01:28 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,3-Dinitrobenzene	112	111	38-166	1	50				
2,4-Dinitrotoluene	102	102	80-131	0	50				
2,6-Dinitrotoluene	107	105	80-127	1	50				
HMX	94	94	63-128	0	50				
Nitrobenzene	107	105	80-125	2	50				
Nitroglycerin	100	99	80-120	1	50				
2-Nitrotoluene	104	102	80-122	2	50				
3-Nitrotoluene	110	109	72-119	2	50				
4-Nitrotoluene	103	102	80-125	1	50				
PETN	109	108	80-121	1	50				
RDX	100	99	75-129	1	50				
Tetryl	93	92	55-174	1	50				
1,3,5-Trinitrobenzene	105	103	82-126	2	50				
2,4,6-Trinitrotoluene	109	108	82-130	1	50				
Batch number: 112860003A	Sample number(s): 6434468,6434470,6434472-6434476 UNSPK: P433414								
20a Formaldehyde 8315A	94	108	80-120	14	50				
Batch number: 112860020A	Sample number(s): 6434468-6434476 UNSPK: P431135								
PCB-1016	91	95	29-146	4	50				
PCB-1260	92	96	39-149	4	50				
Batch number: 112850037A	Sample number(s): 6434468-6434470,6434472-6434476 UNSPK: 6434468								
Ethanol	43*	70	48-130	48*	20				
Isopropanol	39	66	12-149	51*	20				
Methanol	43	70	43-138	49*	20				
Batch number: 112870018A	Sample number(s): 6434468-6434470,6434472-6434476 UNSPK: 6434470								
Diethylene glycol	9*	8*	59-109	5	20				
Ethylene glycol	43*	42*	63-107	3	20				
Propylene glycol	52*	50*	63-107	3	20				
Batch number: 112860009A	Sample number(s): 6434468-6434470,6434472-6434476 UNSPK: P430028								
EFH (C12-C14)	85	85	49-123	0	20				
EFH (C15-C20)	106	112	49-123	5	20				
EFH (C21-C30)	111	135*	49-123	12	20				
EFH (C30 - C40)	171*	251*	49-123	19	20				
EFH (C8-C11)	68	67	49-123	2	20				
Batch number: 112870007A	Sample number(s): 6434468-6434470,6434472-6434476 UNSPK: P435690								
m-Terphenyl	93	95	75-125	1	20				
o-Terphenyl	107	107	75-125	0	20				
p-Terphenyl	85	90	75-125	6	20				
Batch number: 112851026001A	Sample number(s): 6434468-6434476 UNSPK: P433412 BKG: P433412								
Antimony	38*	33*	75-125	6	20	0.388	0.234	49* (1)	20
Arsenic	-241 (2)	-213 (2)	75-125	6	20	13.6	6.97	65*	20
Beryllium	115	104	75-125	5	20	0.713	0.610	16	20
Cadmium	121	123	75-125	1	20	0.286	0.201	35* (1)	20
Chromium	106	86	75-125	5	20	28.7	25.5	12	20
Cobalt	131*	123	75-125	5	20	11.1	8.64	25*	20
Copper	95	71*	75-125	8	20	21.5	16.6	26*	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270785
Reported: 10/28/11 at 01:28 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Lead	83	124	75-125	9	20	11.0	11.2	2	20
Nickel	129*	80	75-125	15	20	22.5	18.8	18	20
Silver	129*	129*	75-125	0	20	0.0877 J	0.0777 J	12 (1)	20
Thallium	111	113	75-125	1	20	0.433	0.432	0 (1)	20
Vanadium	44 (2)	34 (2)	75-125	2	20	56.1	47.1	17	20
Zinc	63 (2)	69 (2)	75-125	1	20	90.8	78.2	15	20
Batch number: 112851026001B	Sample number(s): 6434468-6434476 UNSPK: P433412 BKG: P433412								
Selenium	110	115	75-125	4	20	0.556	0.403	32* (1)	20
Batch number: 112851026001C	Sample number(s): 6434468-6434476 UNSPK: P433412 BKG: P433412								
Molybdenum	125	123	75-125	1	20	1.45	0.799	58*	20
Batch number: 112851026001D	Sample number(s): 6434468-6434476 UNSPK: P433412 BKG: P433412								
Barium	246 (2)	61 (2)	75-125	12	20	131	121	8	20
Batch number: 112855708001	Sample number(s): 6434468-6434476 UNSPK: P433412 BKG: P433412								
Aluminum	575 (2)	1076 (2)	75-125	6	20	14,300	15,100	5	20
Boron	103	102	84-115	1	20	0.356 U	0.356 U	0 (1)	20
Calcium	127 (2)	90 (2)	75-125	3	20	5,290	5,130	3	20
Iron	-29 (2)	1606 (2)	75-125	6	20	24,700	30,300	21*	20
Lithium	99	101	82-114	2	20	35.1	39.5	12	20
Magnesium	172 (2)	445 (2)	75-125	8	20	6,590	7,710	16	20
Manganese	67 (2)	66 (2)	75-125	0	20	362	322	11	20
Phosphorus	141 (2)	125 (2)	75-125	3	20	496	571	14	20
Potassium	116	143*	75-125	6	20	3,500	3,700	5	20
Sodium	99	99	75-125	0	20	112	122	9 (1)	20
Strontium	100	99	75-115	1	20	16.5	17.2	4	20
Tin	88	90	80-110	1	20	3.03 J	3.15 J	4 (1)	20
Titanium	261 (2)	339 (2)	75-125	5	20	1,400	1,580	12	20
Zirconium	99	99	81-110	0	20	2.38 J	2.88 J	19 (1)	20
Batch number: 112855711001	Sample number(s): 6434468-6434476 UNSPK: P433412 BKG: P433412								
Mercury	93	97	65-135	4	20	0.0237 J	0.0066 U	200* (1)	20
Batch number: 11290102201A	Sample number(s): 6434468-6434470 UNSPK: P431140 BKG: P431140								
16a Cyanide by 9012B	101		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11290102201B	Sample number(s): 6434472-6434476 UNSPK: 6434472 BKG: 6434472								
16a Cyanide by 9012B	100		75-125			0.17 U	0.18 U	0 (1)	20
Batch number: 11291243201A	Sample number(s): 6434468-6434476 UNSPK: P435690 BKG: P435690								
3a Cr VI by EPA 7199	91		75-125			0.20 U	0.20 U	0 (1)	20
Batch number: 11292621202A	Sample number(s): 6434468-6434476 UNSPK: 6434468 BKG: 6434468								
7a Perchlorate EPA 314.0	109		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11297495201A	Sample number(s): 6434468-6434474 UNSPK: P433412 BKG: P433412								
11a Anions by 300.0 - Fluoride	79*		80-120			2.0	2.0	3 (1)	20
11a Anions by 300.0 - Nitrate	97		80-120			2.1	2.0	3 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270785
Reported: 10/28/11 at 01:28 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11297495201B	Sample number(s): 6434475-6434476 UNSPK: P435690 BKG: P435690								
11a Anions by 300.0 - Fluoride	76*		80-120			2.1	1.9	11 (1)	20
11a Anions by 300.0 - Nitrate	95		80-120			0.98 J	0.89 J	9 (1)	20
Batch number: 11294039401A	Sample number(s): 6434468-6434473 BKG: P433413								
17a pH by 9045C						6.81	6.92	2	3
Batch number: 11294039401B	Sample number(s): 6434474-6434476 BKG: 6434476								
17a pH by 9045C						7.86	7.87	0	3
Batch number: 11291162401B	Sample number(s): 6434469,6434471,6434479 BKG: P431141								
Moisture Content by 160.3						4.4	4.3	2	20
Batch number: 11298162401A	Sample number(s): 6434468,6434470,6434472-6434476 BKG: P435690								
Moisture Content by 160.3						2.2	2.3	4 (1)	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 21a NDMA by 1625C
Batch number: 11285SLG026

	N-Nitrosodimethylamine-d6
6434468	132
6434470	126
6434472	131
6434473	145
6434474	124
6434475	109
6434476	104
6434479	127
Blank	175*
LCS	182*
MS	180*
MSD	147
Limits:	50-150

Analysis Name: 21b. NDMA in Water
Batch number: 11286WAH026

	N-Nitrosodimethylamine-d6
6434477	320*
6434478	171*
Blank	153*
LCS	148

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270785
Reported: 10/28/11 at 01:28 PM

Surrogate Quality Control

LCSD 160*

Limits: 50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11290SLE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6434468	99	101	89	97	86	88
6434469	104	105	106	101	87	88
6434470	105	102	105	95	85	88
6434471	106	104	99	97	86	85
6434472	98	97	102	97	87	89
6434473	107	105	95	98	89	89
6434474	105	105	93	99	89	86
6434475	101	103	94	99	89	87
6434476	100	101	93	95	86	86
Blank	94	95	94	96	87	87
LCS	110	109	106	100	88	83
MS	104	102	79	101	88	89
MSD	103	103	92	101	88	87
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11298SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6434468	90	86	91
6434469	92	85	93
6434470	92	85	91
6434471	91	84	86
6434472	96	86	78
6434473	112	87	78
6434474	100	97	88
6434475	80	78	70
6434476	90	82	73
Blank	105	101	110
LCS	100	91	97
MS	94	86	91
MSD	100	91	97
Limits:	40-130	45-130	45-135

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11285A20A

	Trifluorotoluene-F
6434480	87
Blank	88
LCS	113
LCSD	115
Limits:	63-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11290B16A

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270785
Reported: 10/28/11 at 01:28 PM

Surrogate Quality Control

	Trifluorotoluene-F
6434468	78
6434469	86
6434470	88
6434472	87
6434474	96
6434475	84
Blank	84
LCS	92
MS	96
MSD	92
Limits:	61-122

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11290B16B

	Trifluorotoluene-F
6434476	86
Blank	94
LCS	92
MS	96
MSD	92
Limits:	61-122

Analysis Name: 20a Formaldehyde 8315A
Batch number: 112860003A

	Butyraldehyde
6434468	108
6434470	113
6434472	118
6434473	98
6434474	103
6434475	100
6434476	106
Blank	117
LCS	103
MS	106
MSD	95
Limits:	64-126

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112860020A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6434468	84	93
6434469	93	110
6434470	99	113
6434471	95	71
6434472	92	80
6434473	93	81
6434474	79	60
6434475	87	71

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270785
Reported: 10/28/11 at 01:28 PM

Surrogate Quality Control

6434476	108	88
Blank	98	106
LCS	92	102
LCSD	98	106
MS	101	98
MSD	101	97
Limits:	53-139	45-120

Analysis Name: 15a Energetics by 8330A
Batch number: 112880014A

	2-Nitro-m-xylene
6434468	123
6434470	120
6434472	123
6434473	130
6434474	127
6434475	124
6434476	124
Blank	118
LCS	112
LCSD	129
MS	116
MSD	113
Limits:	80-146

Analysis Name: 18a Alcohols by 8015B
Batch number: 112850037A

	Acetone
6434468	75
6434469	52
6434470	75
6434472	81
6434473	59
6434474	60
6434475	58
6434476	81
Blank	89
LCS	85
MS	34*
MSD	61
Limits:	42-138

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112860009A

	Chlorobenzene	Orthoterphenyl
6434468	74	84
6434469	74	87
6434470	82	89
6434472	82	89
6434473	79	87
6434474	85	88

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270785
Reported: 10/28/11 at 01:28 PM

Surrogate Quality Control

6434475	85	89
6434476	83	86
Blank	88	90
LCS	79	90
MS	80	86
MSD	77	87
Limits:	37-125	47-145

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112870007A

	n-Triacontane-d62
6434468	77
6434469	79
6434470	78
6434472	83
6434473	80
6434474	148
6434475	78
6434476	87
Blank	76
LCS	76
MS	73
MSD	72
Limits:	19-152

Analysis Name: 19a Glycols by 8015B
Batch number: 112870018A

	Tetramethylene glycol
6434468	74
6434469	74
6434470	74
6434472	74
6434473	74
6434474	74
6434475	72
6434476	73
Blank	84
LCS	87
MS	76
MSD	74
Limits:	29-137

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Ap# 1270735 Sample# 6434463-80

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-265-SA6-SB-4.5	10.11.11	0843	SOIL	NONE	2-Encores										X											
SL-265-SA6-SB-4.0-5.0	10.11.11	0847	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-147-SA7-SB-1.5	10.11.11	1120	SOIL	NONE	2-Encores										X											
SL-147-SA7-SB-1.0-2.0	10.11.11	1122	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X					X	X	X	X		
SL-155-SA7-SB-2.0	10.11.11	1228	SOIL	NONE	2-Encores										X											
SL-155-SA7-SB-1.5-2.5	10.11.11	1232	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-265-SA6-SB-4.5	10.11.11	0843	SOIL	NONE	2-Encores										X											
SL-265-SA6-SB-4.0-5.0	10.11.11	0847	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-009-SA3-SB-4.0-5.0	10.11.11	1505	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													

Relinquished by: (*Signature*) — **Date/Time** 10/11/2011 / 1630

Received for Laboratory by: (*Signature*) LLI 10/12/11 0900

Received by: (*Signature*) — **Date/Time**

Airbill No.(s)
8767 9858 5501, 5497

Laboratory:
Lancaster Laboratories, Inc.

acct# 13013 Cap# 1370755 sample# 6434468-30

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 5 (SA5) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphonyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dewonil EPA 8270	Other Instructions and Notes
SL-049-SA7-SB-4.5	10.11.11	1525	SOIL	NONE	1-SS Sleeve										X											
SL-049-SA7-SB-4.0-5.0	10.11.11	1525	SOIL	NONE	1-SS Sleeve			X	X																	
SL-049-SA7-SB-4.0-5.0	10.11.11	1525	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-162-SA7-SB-0.0-1.0	10.11.11	1115	SOIL	NONE	1-SS Sleeve			X	X																	
SL-162-SA7-SB-0.0-1.0	10.11.11	1115	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-166-SA7-SB-1.5	10.11.11	1045	SOIL	NONE	2-Encores										X											
SL-166-SA7-SB-1.0-2.0	10.11.11	1040	SOIL	NONE	1-SS Sleeve			X	X																	
SL-166-SA7-SB-1.0-2.0	10.11.11	1040	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-167-SA7-SB-1.0	10.11.11	0930	SOIL	NONE	2-Encores										X											
SL-167-SA7-SB-0.5-1.5	10.11.11	0925	SOIL	NONE	1-SS Sleeve			X	X																	
SL-167-SA7-SB-0.5-1.5	10.11.11	0925	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-168-SA7-SB-1.0	10.11.11	1350	SOIL	NONE	2-Encores										X											
SL-168-SA7-SB-0.5-1.5	10.11.11	1345	SOIL	NONE	1-SS Sleeve			X	X																	
SL-168-SA7-SB-0.5-1.5	10.11.11	1345	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X		
EB-SA7-SB-101111	10.11.11	1430	WATER	NONE	1-1 L Amber														X							
TB-101111	10.11.11	0800	WATER	NONE	1-1 L Amber														X							HGL ASTM II WATER
TB-101111	10.11.11	0800	SOIL	NONE	1-4 oz Jar														X							
TB-101111	10.11.11	0800	WATER	NONE	2-40 mL Vials										X											

Relinquished by: (Signature) | **Date/Time** 10/11/2011 / 1630 | **Received for Laboratory by: (Signature)** 10/12/11 0910

Received by: (Signature) | **Date/Time** | **Airbill No.(s)** 8767 9858 5501, 5497

Laboratory: Lancaster Laboratories, Inc.

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers
Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	
SL-147-SA7-SB-1.5	10.11.11	1120	SOIL	NONE	2-Encores										X										
SL-147-SA7-SB-1.0-2.0	10.11.11	1122	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X					X	X	X	X	
SL-155-SA7-SB-2.0	10.11.11	1228	SOIL	NONE	2-Encores										X										
SL-155-SA7-SB-1.5-2.5	10.11.11	1232	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	
SL-265-SA6-SB-4.5	10.11.11	0843	SOIL	NONE	2-Encores										X										
SL-265-SA6-SB-4.0-5.0	10.11.11	0847	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	
SL-009-SA3-SB-4.0-5.0	10.11.11	1505	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X												

Relinquished by: (*Signature*) | **Date/Time** 10/11/2011 / 1630 | **Received for Laboratory by: (*Signature*)**

Laboratory: Lancaster Laboratories, Inc.

Received by: (*Signature*) | **Date/Time** | **Airbill No.(s)** 8767 9858 5501, 5497

Nicole Maljovec

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Wednesday, October 12, 2011 11:05 AM
To: Nicole Maljovec
Cc: Bloisa, Peggy
Subject: Repeated line in 10/11/11 COC

Hi Nicole

I sent you guys a COC with a repeated line, please see my corrected COC. Thanks!

Pam

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 31, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/12/2011
Group Number: 1270786
SDG: DX148
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-265-SA6-SB-4.0-5.0 Soil	6434481
SL-147-SA7-SB-1.0-2.0 Soil	6434482
SL-155-SA7-SB-1.5-2.5 Soil	6434483
SL-009-SA3-SB-4.0-5.0 Soil	6434484
SL-049-SA7-SB-4.0-5.0 Soil	6434485
SL-162-SA7-SB-0.0-1.0 Soil	6434486
SL-166-SA7-SB-1.0-2.0 Soil	6434487
SL-167-SA7-SB-0.5-1.5 Soil	6434488

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Dorothy M. Love

Dorothy M. Love
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-265-SA6-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-265-SA6-SB-4.0-5.0

LLI Sample # SW 6434481
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 08:47

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4813 SDG#: DX148-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-265-SA6-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-265-SA6-SB-4.0-5.0

LLI Sample # SW 6434481
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 08:47

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4813 SDG#: DX148-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0280	U	0.0280	1.04	1
11031	12378-PeCDD	40321-76-4	0.0256	U	0.0256	5.22	1
11031	123478-HxCDD	39227-28-6	0.0246	JQ	0.0228	5.22	1
11031	123678-HxCDD	57653-85-7	0.0662	JB	0.0211	5.22	1
11031	123789-HxCDD	19408-74-3	0.0835	JBQ	0.0211	5.22	1
11031	1234678-HpCDD	35822-46-9	0.836	JB	0.0292	5.22	1
11031	OCDD	3268-87-9	6.83	JB	0.0256	10.4	1
11031	2378-TCDF	51207-31-9	0.0481	J	0.0230	1.04	1
11031	12378-PeCDF	57117-41-6	0.0336	JB	0.0130	5.22	1
11031	23478-PeCDF	57117-31-4	0.0136	U	0.0136	5.22	1
11031	123478-HxCDF	70648-26-9	0.0509	JBQ	0.0173	5.22	1
11031	123678-HxCDF	57117-44-9	0.0370	JBQ	0.0154	5.22	1
11031	123789-HxCDF	72918-21-9	0.0179	U	0.0179	5.22	1
11031	234678-HxCDF	60851-34-5	0.0898	JBQ	0.0153	5.22	1
11031	1234678-HpCDF	67562-39-4	0.170	JB	0.0167	5.22	1
11031	1234789-HpCDF	55673-89-7	0.0550	JB	0.0256	5.22	1
11031	OCDF	39001-02-0	0.322	JB	0.0272	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	93	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	97	23 - 140
13C12-OCDD	100	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	101	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	82	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-265-SA6-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-265-SA6-SB-4.0-5.0

LLI Sample # SW 6434481
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 08:47

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4813 SDG#: DX148-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-265-SA6-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-265-SA6-SB-4.0-5.0

LLI Sample # SW 6434481
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 08:47

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4813 SDG#: DX148-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11293002	10/22/2011 21:15	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11293002	10/20/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-147-SA7-SB-1.0-2.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-147-SA7-SB-1.0-2.0

LLI Sample # SW 6434482
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:22

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4814 SDG#: DX148-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-147-SA7-SB-1.0-2.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-147-SA7-SB-1.0-2.0

LLI Sample # SW 6434482
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:22

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4814 SDG#: DX148-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0378	U	0.0378	1.07	1
11031	12378-PeCDD	40321-76-4	0.0361	JQ	0.0288	5.33	1
11031	123478-HxCDD	39227-28-6	0.0236	U	0.0236	5.33	1
11031	123678-HxCDD	57653-85-7	0.262	JBQ	0.0241	5.33	1
11031	123789-HxCDD	19408-74-3	0.377	JB	0.0244	5.33	1
11031	1234678-HpCDD	35822-46-9	0.303	JBQ	0.0275	5.33	1
11031	OCDD	3268-87-9	0.495	JB	0.0248	10.7	1
11031	2378-TCDF	51207-31-9	0.0343	JQ	0.0232	1.07	1
11031	12378-PeCDF	57117-41-6	0.0394	JB	0.0147	5.33	1
11031	23478-PeCDF	57117-31-4	0.0496	JB	0.0142	5.33	1
11031	123478-HxCDF	70648-26-9	0.0494	JBQ	0.0162	5.33	1
11031	123678-HxCDF	57117-44-9	0.187	JB	0.0136	5.33	1
11031	123789-HxCDF	72918-21-9	0.122	JBQ	0.0186	5.33	1
11031	234678-HxCDF	60851-34-5	0.0351	JB	0.0143	5.33	1
11031	1234678-HpCDF	67562-39-4	0.0737	JB	0.0137	5.33	1
11031	1234789-HpCDF	55673-89-7	0.0356	JBQ	0.0247	5.33	1
11031	OCDF	39001-02-0	0.125	JBQ	0.0327	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	100	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	73	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-147-SA7-SB-1.0-2.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-147-SA7-SB-1.0-2.0

LLI Sample # SW 6434482
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:22

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4814 SDG#: DX148-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-147-SA7-SB-1.0-2.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-147-SA7-SB-1.0-2.0

LLI Sample # SW 6434482
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:22

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4814 SDG#: DX148-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11293002	10/22/2011 22:11	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11293002	10/20/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11291162401B	10/18/2011 21:20	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-155-SA7-SB-1.5-2.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-155-SA7-SB-1.5-2.5

LLI Sample # SW 6434483
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 12:32

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4815 SDG#: DX148-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-155-SA7-SB-1.5-2.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-155-SA7-SB-1.5-2.5

LLI Sample # SW 6434483
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 12:32

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4815 SDG#: DX148-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0395	U	0.0395	1.04	1
11031	12378-PeCDD	40321-76-4	0.0300	U	0.0300	5.19	1
11031	123478-HxCDD	39227-28-6	0.0301	JQ	0.0216	5.19	1
11031	123678-HxCDD	57653-85-7	0.0334	JB	0.0220	5.19	1
11031	123789-HxCDD	19408-74-3	0.0465	JBQ	0.0216	5.19	1
11031	1234678-HpCDD	35822-46-9	0.292	JBQ	0.0217	5.19	1
11031	OCDD	3268-87-9	1.11	JB	0.0215	10.4	1
11031	2378-TCDF	51207-31-9	0.0419	JQ	0.0332	1.04	1
11031	12378-PeCDF	57117-41-6	0.0395	JBQ	0.0158	5.19	1
11031	23478-PeCDF	57117-31-4	0.0634	JBQ	0.0168	5.19	1
11031	123478-HxCDF	70648-26-9	0.0151	U	0.0151	5.19	1
11031	123678-HxCDF	57117-44-9	0.0272	JBQ	0.0129	5.19	1
11031	123789-HxCDF	72918-21-9	0.0355	JBQ	0.0160	5.19	1
11031	234678-HxCDF	60851-34-5	0.0447	JBQ	0.0130	5.19	1
11031	1234678-HpCDF	67562-39-4	0.122	JBQ	0.0114	5.19	1
11031	1234789-HpCDF	55673-89-7	0.0326	JBQ	0.0201	5.19	1
11031	OCDF	39001-02-0	0.173	JBQ	0.0278	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	96	32 - 141
13C12-123678-HxCDD	97	28 - 130
13C12-123789-HxCDD	96	28 - 130
13C12-1234678-HpCDD	107	23 - 140
13C12-OCDD	120	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	112	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	86	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-155-SA7-SB-1.5-2.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-155-SA7-SB-1.5-2.5

LLI Sample # SW 6434483
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 12:32

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4815 SDG#: DX148-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-155-SA7-SB-1.5-2.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-155-SA7-SB-1.5-2.5

LLI Sample # SW 6434483
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 12:32

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4815 SDG#: DX148-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11293002	10/22/2011 23:08	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11293002	10/20/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-009-SA3-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA3-SB-4.0-5.0

LLI Sample # SW 6434484
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:05

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4816 SDG#: DX148-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-009-SA3-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA3-SB-4.0-5.0

LLI Sample # SW 6434484
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:05

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4816 SDG#: DX148-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0717	JQ	0.0417	1.08	1
11031	12378-PeCDD	40321-76-4	0.560	J	0.0562	5.39	1
11031	123478-HxCDD	39227-28-6	0.602	J	0.0606	5.39	1
11031	123678-HxCDD	57653-85-7	6.08	B	0.0603	5.39	1
11031	123789-HxCDD	19408-74-3	2.38	JB	0.0576	5.39	1
11031	1234678-HpCDD	35822-46-9	218	B	0.142	5.39	1
11031	OCDD	3268-87-9	2,250	B	0.160	10.8	1
11031	2378-TCDF	51207-31-9	1.34	C	0.109	1.08	1
11031	12378-PeCDF	57117-41-6	1.27	JB	0.0586	5.39	1
11031	23478-PeCDF	57117-31-4	9.79	B	0.0520	5.39	1
11031	123478-HxCDF	70648-26-9	2.11	JB	0.0465	5.39	1
11031	123678-HxCDF	57117-44-9	2.85	JB	0.0445	5.39	1
11031	123789-HxCDF	72918-21-9	0.720	JB	0.0501	5.39	1
11031	234678-HxCDF	60851-34-5	5.33	JB	0.0421	5.39	1
11031	1234678-HpCDF	67562-39-4	20.2	B	0.0383	5.39	1
11031	1234789-HpCDF	55673-89-7	1.29	JB	0.0477	5.39	1
11031	OCDF	39001-02-0	58.3	B	0.0397	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	87	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	95	32 - 141
13C12-123678-HxCDD	94	28 - 130
13C12-123789-HxCDD	92	28 - 130
13C12-1234678-HpCDD	99	23 - 140
13C12-OCDD	108	17 - 157
13C12-2378-TCDF	88	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	89	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	91	26 - 138
13C12-OCDF	99	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-009-SA3-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA3-SB-4.0-5.0

LLI Sample # SW 6434484
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:05

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4816 SDG#: DX148-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-009-SA3-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-009-SA3-SB-4.0-5.0

LLI Sample # SW 6434484
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:05

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4816 SDG#: DX148-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11293002	10/23/2011 00:04	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11293002	10/20/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11291162401B	10/18/2011 21:20	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-049-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA7-SB-4.0-5.0

LLI Sample # SW 6434485
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:25

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4817 SDG#: DX148-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-049-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA7-SB-4.0-5.0

LLI Sample # SW 6434485
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:25

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4817 SDG#: DX148-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0573	JQ	0.0318	1.03	1
11031	12378-PeCDD	40321-76-4	0.258	J	0.0320	5.14	1
11031	123478-HxCDD	39227-28-6	0.171	JQ	0.0354	5.14	1
11031	123678-HxCDD	57653-85-7	0.352	JB	0.0352	5.14	1
11031	123789-HxCDD	19408-74-3	0.276	JB	0.0344	5.14	1
11031	1234678-HpCDD	35822-46-9	7.23	B	0.0433	5.14	1
11031	OCDD	3268-87-9	70.5	B	0.0492	10.3	1
11031	2378-TCDF	51207-31-9	0.114	J	0.0235	1.03	1
11031	12378-PeCDF	57117-41-6	0.336	JB	0.0170	5.14	1
11031	23478-PeCDF	57117-31-4	0.259	JBQ	0.0166	5.14	1
11031	123478-HxCDF	70648-26-9	0.186	JB	0.0246	5.14	1
11031	123678-HxCDF	57117-44-9	0.167	JB	0.0221	5.14	1
11031	123789-HxCDF	72918-21-9	0.125	JB	0.0255	5.14	1
11031	234678-HxCDF	60851-34-5	0.142	JBQ	0.0217	5.14	1
11031	1234678-HpCDF	67562-39-4	1.02	JB	0.0186	5.14	1
11031	1234789-HpCDF	55673-89-7	0.0862	JB	0.0286	5.14	1
11031	OCDF	39001-02-0	2.31	JB	0.0309	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	92	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	93	23 - 140
13C12-OCDD	100	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	82	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-049-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA7-SB-4.0-5.0

LLI Sample # SW 6434485
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:25

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4817 SDG#: DX148-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-049-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-049-SA7-SB-4.0-5.0

LLI Sample # SW 6434485
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 15:25

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4817 SDG#: DX148-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11293002	10/23/2011 01:01	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11293002	10/20/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-162-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-162-SA7-SB-0.0-1.0

LLI Sample # SW 6434486
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:15

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4818 SDG#: DX148-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-162-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-162-SA7-SB-0.0-1.0

LLI Sample # SW 6434486
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:15

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4818 SDG#: DX148-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0273	U	0.0273	1.01	1
11031	12378-PeCDD	40321-76-4	0.385	JQ	0.0332	5.05	1
11031	123478-HxCDD	39227-28-6	0.392	JQ	0.0438	5.05	1
11031	123678-HxCDD	57653-85-7	1.02	JBQ	0.0452	5.05	1
11031	123789-HxCDD	19408-74-3	0.697	JB	0.0409	5.05	1
11031	1234678-HpCDD	35822-46-9	30.2	B	0.0673	5.05	1
11031	OCDD	3268-87-9	323	B	0.0766	10.1	1
11031	2378-TCDF	51207-31-9	0.0823	J	0.0234	1.01	1
11031	12378-PeCDF	57117-41-6	0.308	JB	0.0183	5.05	1
11031	23478-PeCDF	57117-31-4	0.328	JBQ	0.0178	5.05	1
11031	123478-HxCDF	70648-26-9	0.301	JB	0.0288	5.05	1
11031	123678-HxCDF	57117-44-9	0.209	JBQ	0.0263	5.05	1
11031	123789-HxCDF	72918-21-9	0.126	JBQ	0.0279	5.05	1
11031	234678-HxCDF	60851-34-5	0.307	JBQ	0.0246	5.05	1
11031	1234678-HpCDF	67562-39-4	4.04	JB	0.0239	5.05	1
11031	1234789-HpCDF	55673-89-7	0.375	JB	0.0333	5.05	1
11031	OCDF	39001-02-0	9.98	JB	0.0310	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	97	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	85	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-162-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-162-SA7-SB-0.0-1.0

LLI Sample # SW 6434486
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:15

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4818 SDG#: DX148-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-162-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-162-SA7-SB-0.0-1.0

LLI Sample # SW 6434486
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 11:15

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4818 SDG#: DX148-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11293002	10/23/2011 05:01	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11293002	10/20/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-166-SA7-SB-1.0-2.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-166-SA7-SB-1.0-2.0

LLI Sample # SW 6434487
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 10:40

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4819 SDG#: DX148-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-166-SA7-SB-1.0-2.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-166-SA7-SB-1.0-2.0

LLI Sample # SW 6434487
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 10:40

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4819 SDG#: DX148-19

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.116	J	0.0336	1.02	1
11031	12378-PeCDD	40321-76-4	1.76	J	0.0703	5.09	1
11031	123478-HxCDD	39227-28-6	4.14	J	0.0740	5.09	1
11031	123678-HxCDD	57653-85-7	18.3	B	0.0782	5.09	1
11031	123789-HxCDD	19408-74-3	9.20	B	0.0757	5.09	1
11031	1234678-HpCDD	35822-46-9	479	B	0.168	5.09	1
11031	OCDD	3268-87-9	4,110	EB	0.147	10.2	1
11031	2378-TCDF	51207-31-9	0.250	JQ	0.0443	1.02	1
11031	12378-PeCDF	57117-41-6	0.645	JB	0.0307	5.09	1
11031	23478-PeCDF	57117-31-4	0.861	JB	0.0329	5.09	1
11031	123478-HxCDF	70648-26-9	2.06	JB	0.0599	5.09	1
11031	123678-HxCDF	57117-44-9	2.41	JB	0.0495	5.09	1
11031	123789-HxCDF	72918-21-9	0.544	JB	0.0706	5.09	1
11031	234678-HxCDF	60851-34-5	4.65	JB	0.0527	5.09	1
11031	1234678-HpCDF	67562-39-4	56.7	B	0.0421	5.09	1
11031	1234789-HpCDF	55673-89-7	5.59	B	0.0796	5.09	1
11031	OCDF	39001-02-0	137	B	0.0571	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	90	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	100	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	99	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	71	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-166-SA7-SB-1.0-2.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-166-SA7-SB-1.0-2.0

LLI Sample # SW 6434487
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 10:40

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4819 SDG#: DX148-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-166-SA7-SB-1.0-2.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-166-SA7-SB-1.0-2.0

LLI Sample # SW 6434487
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 10:40

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4819 SDG#: DX148-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11293002	10/23/2011 05:57	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11293002	10/20/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-167-SA7-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-167-SA7-SB-0.5-1.5

LLI Sample # SW 6434488
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 09:25

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4820 SDG#: DX148-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-167-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-167-SA7-SB-0.5-1.5

LLI Sample # SW 6434488
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 09:25

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4820 SDG#: DX148-20*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0256	U	0.0256	1.03	1
11031	12378-PeCDD	40321-76-4	0.450	JQ	0.0356	5.13	1
11031	123478-HxCDD	39227-28-6	0.765	J	0.0452	5.13	1
11031	123678-HxCDD	57653-85-7	2.70	JB	0.0459	5.13	1
11031	123789-HxCDD	19408-74-3	1.50	JB	0.0484	5.13	1
11031	1234678-HpCDD	35822-46-9	74.3	B	0.0821	5.13	1
11031	OCDD	3268-87-9	742	B	0.0854	10.3	1
11031	2378-TCDF	51207-31-9	0.138	JQ	0.0376	1.03	1
11031	12378-PeCDF	57117-41-6	0.199	JBQ	0.0351	5.13	1
11031	23478-PeCDF	57117-31-4	0.439	JBQ	0.0333	5.13	1
11031	123478-HxCDF	70648-26-9	0.645	JB	0.0320	5.13	1
11031	123678-HxCDF	57117-44-9	0.447	JBQ	0.0304	5.13	1
11031	123789-HxCDF	72918-21-9	0.169	JB	0.0340	5.13	1
11031	234678-HxCDF	60851-34-5	0.655	JB	0.0293	5.13	1
11031	1234678-HpCDF	67562-39-4	9.05	B	0.0286	5.13	1
11031	1234789-HpCDF	55673-89-7	0.779	JB	0.0365	5.13	1
11031	OCDF	39001-02-0	21.0	B	0.0269	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	91	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	99	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	82	26 - 138
13C12-OCDF	88	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-167-SA7-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-167-SA7-SB-0.5-1.5

LLI Sample # SW 6434488
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 09:25

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4820 SDG#: DX148-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-167-SA7-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-167-SA7-SB-0.5-1.5

LLI Sample # SW 6434488
LLI Group # 1270786
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 09:25

Submitted: 10/12/2011 09:00
Reported: 10/31/2011 14:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4820 SDG#: DX148-20*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11293002	10/23/2011 06:54	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11293002	10/20/2011 12:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270786
Reported: 10/31/11 at 02:03 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11291162401B	Sample number(s): 6434482,6434484								
Moisture Content by 160.3					100		80-120		
Batch number: 11298162401A	Sample number(s): 6434481,6434483,6434485-6434488								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11293002	Sample number(s): 6434481-6434488								
2378-TCDD	0.0314 U	0.0314	1.00	ng/kg	106		67-158		
12378-PeCDD	0.0231 U	0.0231	5.00	ng/kg	105		70-142		
123478-HxCDD	0.0172 U	0.0172	5.00	ng/kg	100		70-164		
123678-HxCDD	0.0373 J	0.0179	5.00	ng/kg	96		76-134		
123789-HxCDD	0.0323 J	0.0162	5.00	ng/kg	101		64-162		
1234678-HpCDD	0.244 J	0.0198	5.00	ng/kg	99		70-140		
OCDD	0.356 J	0.0157	10.0	ng/kg	96		78-144		
2378-TCDF	0.0253 U	0.0253	1.00	ng/kg	101		75-158		
12378-PeCDF	0.0371 J	0.0138	5.00	ng/kg	103		80-134		
23478-PeCDF	0.0800 J	0.0135	5.00	ng/kg	95		68-160		
123478-HxCDF	0.0412 J	0.0144	5.00	ng/kg	100		72-134		
123678-HxCDF	0.0308 J	0.0122	5.00	ng/kg	99		84-130		
123789-HxCDF	0.0261 J	0.0158	5.00	ng/kg	100		78-130		
234678-HxCDF	0.0373 J	0.0132	5.00	ng/kg	97		70-156		
1234678-HpCDF	0.0886 J	0.00730	5.00	ng/kg	91		82-122		
1234789-HpCDF	0.0364 J	0.0126	5.00	ng/kg	98		78-138		
OCDF	0.107 J	0.0264	10.0	ng/kg	98		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11291162401B	Sample number(s): 6434482,6434484 BKG: P431141								
Moisture Content by 160.3						4.4	4.3	2	20
Batch number: 11298162401A	Sample number(s): 6434481,6434483,6434485-6434488 BKG: P435690								
Moisture Content by 160.3						2.2	2.3	4 (1)	20
Batch number: 11293002	Sample number(s): 6434481-6434488 UNSPK: P430041								

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270786
Reported: 10/31/11 at 02:03 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2378-TCDD	107	108	67-158	1	25				
12378-PeCDD	105	105	70-142	0	25				
123478-HxCDD	99	101	70-164	2	25				
123678-HxCDD	95	96	76-134	1	25				
123789-HxCDD	102	102	64-162	0	25				
1234678-HpCDD	100	100	70-140	0	25				
OCDD	99	96	78-144	3	25				
2378-TCDF	101	99	75-158	2	25				
12378-PeCDF	103	102	80-134	0	25				
23478-PeCDF	96	95	68-160	0	25				
123478-HxCDF	98	100	72-134	3	25				
123678-HxCDF	101	100	84-130	1	25				
123789-HxCDF	101	100	78-130	1	25				
234678-HxCDF	99	98	70-156	1	25				
1234678-HpCDF	91	92	82-122	0	25				
1234789-HpCDF	99	98	78-138	1	25				
OCDF	98	98	63-170	0	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11293002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6434481	84	79	73	79	78	78
6434482	66	66	62	72	71	65
6434483	78	77	67	81	79	74
6434484	87	83	81	84	87	89
6434485	79	75	72	79	80	80
6434486	76	72	66	73	74	80
6434487	77	69	66	77	75	66
6434488	82	76	74	78	84	82
Blank	68	69	64	75	69	68
MS	70	68	68	78	75	72
MSD	74	74	71	78	78	75
OPR	66	68	65	72	69	73
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6434481	101	79	82	83	84	93
6434482	98	68	73	74	86	85
6434483	112	78	86	88	96	97
6434484	92	91	99	82	95	94
6434485	98	78	82	78	89	92
6434486	88	79	85	73	80	81

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270786
Reported: 10/31/11 at 02:03 PM

Surrogate Quality Control

6434487	99	65	71	78	90	90
6434488	87	82	88	76	89	91
Blank	103	73	82	78	84	85
MS	102	72	78	75	89	88
MSD	96	80	87	78	89	89
OPR	96	76	84	74	80	81
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6434481	91	97	100	80	87
6434482	83	91	100	61	72
6434483	96	107	120	69	87
6434484	92	99	108	88	83
6434485	90	93	100	78	81
6434486	83	90	97	77	77
6434487	88	91	100	72	79
6434488	87	90	99	83	79
Blank	86	98	111	61	75
MS	87	94	105	66	76
MSD	87	94	105	73	80
OPR	81	93	104	61	71
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Ap# 1270756 Sample# 6434451-88

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-265-SA6-SB-4.5	10.11.11	0843	SOIL	NONE	2-Encores										X											
SL-265-SA6-SB-4.0-5.0	10.11.11	0847	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-147-SA7-SB-1.5	10.11.11	1120	SOIL	NONE	2-Encores										X											
SL-147-SA7-SB-1.0-2.0	10.11.11	1122	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X					X	X	X	X		
SL-155-SA7-SB-2.0	10.11.11	1228	SOIL	NONE	2-Encores										X											
SL-155-SA7-SB-1.5-2.5	10.11.11	1232	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-265-SA6-SB-4.5	10.11.11	0843	SOIL	NONE	2-Encores										X											
SL-265-SA6-SB-4.0-5.0	10.11.11	0847	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-009-SA3-SB-4.0-5.0	10.11.11	1505	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/11/2011 / 1630	LLI 10/12/11 0900	Lancaster Laboratories, Inc.
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		8767 9858 5501, 5497	

acct# 13013 Gp# 1270756 sample# 643445 1-88

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

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SL-049-SA7-SB-4.5	10.11.11	1525	SOIL	NONE	1-SS Sleeve										X											
SL-049-SA7-SB-4.0-5.0	10.11.11	1525	SOIL	NONE	1-SS Sleeve			X	X																	
SL-049-SA7-SB-4.0-5.0	10.11.11	1525	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-162-SA7-SB-0.0-1.0	10.11.11	1115	SOIL	NONE	1-SS Sleeve			X	X																	
SL-162-SA7-SB-0.0-1.0	10.11.11	1115	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-166-SA7-SB-1.5	10.11.11	1045	SOIL	NONE	2-Encores										X											
SL-166-SA7-SB-1.0-2.0	10.11.11	1040	SOIL	NONE	1-SS Sleeve			X	X																	
SL-166-SA7-SB-1.0-2.0	10.11.11	1040	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-167-SA7-SB-1.0	10.11.11	0930	SOIL	NONE	2-Encores										X											
SL-167-SA7-SB-0.5-1.5	10.11.11	0925	SOIL	NONE	1-SS Sleeve			X	X																	
SL-167-SA7-SB-0.5-1.5	10.11.11	0925	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-168-SA7-SB-1.0	10.11.11	1350	SOIL	NONE	2-Encores										X											
SL-168-SA7-SB-0.5-1.5	10.11.11	1345	SOIL	NONE	1-SS Sleeve			X	X																	
SL-168-SA7-SB-0.5-1.5	10.11.11	1345	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X		
EB-SA7-SB-101111	10.11.11	1430	WATER	NONE	1-1 L Amber														X							HGL ASTM II WATER
TB-101111	10.11.11	0800	WATER	NONE	1-1 L Amber														X							
TB-101111	10.11.11	0800	SOIL	NONE	1-4 oz Jar														X							
TB-101111	10.11.11	0800	WATER	NONE	2-40 mL Vials										X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/11/2011 / 1630	LCL 10/12/11 0900	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8767 9858 5501, 5497	

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
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**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers
Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-147-SA7-SB-1.5	10.11.11	1120	SOIL	NONE	2-Encores										X											
SL-147-SA7-SB-1.0-2.0	10.11.11	1122	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X					X	X	X	X		
SL-155-SA7-SB-2.0	10.11.11	1228	SOIL	NONE	2-Encores										X											
SL-155-SA7-SB-1.5-2.5	10.11.11	1232	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-265-SA6-SB-4.5	10.11.11	0843	SOIL	NONE	2-Encores										X											
SL-265-SA6-SB-4.0-5.0	10.11.11	0847	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-009-SA3-SB-4.0-5.0	10.11.11	1505	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/11/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8767 9858 5501, 5497	

Nicole Maljovec

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Wednesday, October 12, 2011 11:05 AM
To: Nicole Maljovec
Cc: Bloisa, Peggy
Subject: Repeated line in 10/11/11 COC

Hi Nicole

I sent you guys a COC with a repeated line, please see my corrected COC. Thanks!

Pam

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 30, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/12/2011
Group Number: 1270787
SDG: DX149
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-168-SA7-SB-0.5-1.5 Soil	6434489

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Dorothy M. Love

Dorothy M. Love
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-168-SA7-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-168-SA7-SB-0.5-1.5

LLI Sample # SW 6434489
LLI Group # 1270787
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 13:45

Submitted: 10/12/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4901 SDG#: DX149-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-168-SA7-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-168-SA7-SB-0.5-1.5

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4901 SDG#: DX149-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0601	J	0.0385	1.03	1
11031	12378-PeCDD	40321-76-4	0.347	JB	0.0402	5.16	1
11031	123478-HxCDD	39227-28-6	0.492	JB	0.0437	5.16	1
11031	123678-HxCDD	57653-85-7	1.44	J	0.0445	5.16	1
11031	123789-HxCDD	19408-74-3	0.997	JB	0.0433	5.16	1
11031	1234678-HpCDD	35822-46-9	45.4	B	0.0922	5.16	1
11031	OCDD	3268-87-9	476	B	0.0959	10.3	1
11031	2378-TCDF	51207-31-9	0.0362	U	0.0362	1.03	1
11031	12378-PeCDF	57117-41-6	0.0565	JB	0.0341	5.16	1
11031	23478-PeCDF	57117-31-4	0.387	JB	0.0315	5.16	1
11031	123478-HxCDF	70648-26-9	0.755	JB	0.0424	5.16	1
11031	123678-HxCDF	57117-44-9	0.248	JB	0.0387	5.16	1
11031	123789-HxCDF	72918-21-9	0.147	JB	0.0351	5.16	1
11031	234678-HxCDF	60851-34-5	0.342	JB	0.0307	5.16	1
11031	1234678-HpCDF	67562-39-4	5.08	JB	0.0318	5.16	1
11031	1234789-HpCDF	55673-89-7	0.475	JB	0.0351	5.16	1
11031	OCDF	39001-02-0	11.6	B	0.0319	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	90	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	93	23 - 140
13C12-OCDD	100	17 - 157
13C12-2378-TCDF	86	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	90	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	89	26 - 138
13C12-OCDF	94	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-168-SA7-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-168-SA7-SB-0.5-1.5

LLI Sample # SW 6434489
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/11/2011 13:45

Submitted: 10/12/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4901 SDG#: DX149-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-168-SA7-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-168-SA7-SB-0.5-1.5

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Suite 210
Chantilly VA 20151

X4901 SDG#: DX149-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11294002	10/24/2011 16:40	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11294002	10/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270787
Reported: 10/30/11 at 04:18 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11298162401A	Sample number(s): 6434489								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11294002	Sample number(s): 6434489								
2378-TCDD	0.0609 U	0.0609	1.00	ng/kg	107		67-158		
12378-PeCDD	0.0460 J	0.0441	5.00	ng/kg	105		70-142		
123478-HxCDD	0.0460 J	0.0278	5.00	ng/kg	100		70-164		
123678-HxCDD	0.0276 U	0.0276	5.00	ng/kg	94		76-134		
123789-HxCDD	0.0516 J	0.0279	5.00	ng/kg	102		64-162		
1234678-HpCDD	0.267 J	0.0317	5.00	ng/kg	100		70-140		
OCDD	0.461 J	0.0245	10.0	ng/kg	95		78-144		
2378-TCDF	0.0429 U	0.0429	1.00	ng/kg	97		75-158		
12378-PeCDF	0.0382 J	0.0220	5.00	ng/kg	102		80-134		
23478-PeCDF	0.0374 J	0.0203	5.00	ng/kg	96		68-160		
123478-HxCDF	0.0843 J	0.0241	5.00	ng/kg	97		72-134		
123678-HxCDF	0.0224 J	0.0214	5.00	ng/kg	98		84-130		
123789-HxCDF	0.0575 J	0.0180	5.00	ng/kg	98		78-130		
234678-HxCDF	0.0541 J	0.0162	5.00	ng/kg	96		70-156		
1234678-HpCDF	0.154 J	0.0152	5.00	ng/kg	92		82-122		
1234789-HpCDF	0.0824 J	0.0190	5.00	ng/kg	96		78-138		
OCDF	0.172 J	0.0394	10.0	ng/kg	97		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11298162401A	Sample number(s): 6434489			BKG: P435690					
Moisture Content by 160.3						2.2	2.3	4 (1)	20
Batch number: 11294002	Sample number(s): 6434489			UNSPK: P435711					
2378-TCDD	109	105	67-158	3	25				
12378-PeCDD	105	104	70-142	0	25				
123478-HxCDD	98	98	70-164	1	25				
123678-HxCDD	93	95	76-134	3	25				
123789-HxCDD	100	102	64-162	3	25				
1234678-HpCDD	98	99	70-140	3	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270787
Reported: 10/30/11 at 04:18 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
OCDD	96	95	78-144	1	25				
2378-TCDF	98	97	75-158	0	25				
12378-PeCDF	101	102	80-134	2	25				
23478-PeCDF	96	93	68-160	2	25				
123478-HxCDF	100	97	72-134	2	25				
123678-HxCDF	98	98	84-130	0	25				
123789-HxCDF	100	98	78-130	0	25				
234678-HxCDF	95	95	70-156	2	25				
1234678-HpCDF	90	90	82-122	1	25				
1234789-HpCDF	96	96	78-138	1	25				
OCDF	97	95	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11294002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6434489	83	85	68	72	87	90
Blank	86	88	61	70	88	96
MS	76	80	51	59	84	85
MSD	72	79	50	54	81	84
OPR	74	77	60	69	78	83
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6434489	82	89	94	84	89	90
Blank	92	93	100	92	92	97
MS	77	83	88	81	90	89
MSD	72	83	92	79	83	84
OPR	88	82	87	81	86	87
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6434489	88	93	100	86	86
Blank	96	108	118	82	92
MS	89	95	102	78	84
MSD	85	92	103	72	79
OPR	86	95	103	73	81
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1270787
Reported: 10/30/11 at 04:18 PM

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1270757 sample# 6434439

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-049-SA7-SB-4.5	10.11.11	1525	SOIL	NONE	1-SS Sleeve										X											
SL-049-SA7-SB-4.0-5.0	10.11.11	1525	SOIL	NONE	1-SS Sleeve			X	X																	
SL-049-SA7-SB-4.0-5.0	10.11.11	1525	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-162-SA7-SB-0.0-1.0	10.11.11	1115	SOIL	NONE	1-SS Sleeve			X	X																	
SL-162-SA7-SB-0.0-1.0	10.11.11	1115	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-166-SA7-SB-1.5	10.11.11	1045	SOIL	NONE	2-Encores										X											
SL-166-SA7-SB-1.0-2.0	10.11.11	1040	SOIL	NONE	1-SS Sleeve			X	X																	
SL-166-SA7-SB-1.0-2.0	10.11.11	1040	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-167-SA7-SB-1.0	10.11.11	0930	SOIL	NONE	2-Encores										X											
SL-167-SA7-SB-0.5-1.5	10.11.11	0925	SOIL	NONE	1-SS Sleeve			X	X																	
SL-167-SA7-SB-0.5-1.5	10.11.11	0925	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-168-SA7-SB-1.0	10.11.11	1350	SOIL	NONE	2-Encores										X											
SL-168-SA7-SB-0.5-1.5	10.11.11	1345	SOIL	NONE	1-SS Sleeve			X	X																	
SL-168-SA7-SB-0.5-1.5	10.11.11	1345	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X		
EB-SA7-SB-101111	10.11.11	1430	WATER	NONE	1-1 L Amber														X							
TB-101111	10.11.11	0800	WATER	NONE	1-1 L Amber														X							HGL ASTM II WATER
TB-101111	10.11.11	0800	SOIL	NONE	1-4 oz Jar														X							
TB-101111	10.11.11	0800	WATER	NONE	2-40 mL Vials										X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/11/2011 / 1630	LCT 10/12/11 0900	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8767 9858 5501, 5497	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 03, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/13/2011
Group Number: 1271034
SDG: DE267
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-011-SA3-SB-4.0-5.0 Soil	6435690
SL-011-SA3-SB-4.0-5.0MS Soil	6435691
SL-011-SA3-SB-4.0-5.0MSD Soil	6435692
SL-011-SA3-SB-4.0-5.0DUP Soil	6435693
SL-011-SA3-SB-4.0-5.0RL MS Soil	6435694
SL-011-SA3-SB-4.0-5.0RL LCS Soil	6435695
SL-096-SA7-SB-2.0-3.0 Soil	6435696
DUP01-SA3-QC-101211 Soil	6435697
EB-SA3-SB-101211 Water	6435698
TB-101211 Water	6435699
TB-101211 Sand	6435700
TB-101211 Water	6435701
EB-SA3-SB-101211 Water	6435702

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-011-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435690
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6701 SDG#: DE267-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.0	U	17.0	34.1		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Sample Description: **SL-011-SA3-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435690
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6701 SDG#: DE267-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.67	U	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	J	0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	J	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.0	U	6.0	18		1
10138	Fluoranthene	206-44-0	0.67	U	0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	0.67	U	0.67	1.7		1
10138	Pyrene	129-00-0	0.67	U	0.67	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	3.2		0.2	1.0		24.65
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	61	U	61	120	10000000	1

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Sample Description: **SL-011-SA3-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435690
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6701 SDG#: DE267-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	41	U	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	41	U	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	41	U	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	41	U	41	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	41	U	41	120	10000000	1
10132	Nitroglycerin	55-63-0	820	U	820	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	82	U	82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	82	U	82	120	10000000	1
10132	PETN	78-11-5	820	U	820	2,500	10000000	1
10132	RDX	121-82-4	51	U	51	120	10000000	1
10132	Tetryl	479-45-8	63	U	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	41	U	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	41	U	41	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	0.48	J	0.40	1.7		1

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Sample Description: **SL-011-SA3-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435690
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E6701 SDG#: DE267-01BKG

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs		**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262		37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268		11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous		**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol		64-17-5	100	U	100	510		1
10501	Isopropanol		67-63-0	100	U	100	510		1
10501	Methanol		67-56-1	100	U	100	510		1
GC Miscellaneous		**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol		111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol		107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol		57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons		**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl		92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl		84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl		92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons		**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)		n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)		n.a.	0.45	J	0.41	1.2		1
10199	EFH (C21-C30)		n.a.	1.7		0.41	1.2		1
10199	EFH (C30 - C40)		n.a.	5.1		0.41	1.2		1
10199	EFH (C8-C11)		n.a.	0.41	U	0.41	1.2		1
Metals		**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum		7429-90-5	9,830		6.01	19.9		1
07914	Boron		7440-42-8	3.50	J	0.357	4.96		1
01650	Calcium		7440-70-2	5,160		2.48	19.9		1
01654	Iron		7439-89-6	17,400		2.59	19.9		1
01656	Lithium		7439-93-2	24.7		0.62	2.0		1
01657	Magnesium		7439-95-4	3,410		0.437	9.93		1
06958	Manganese		7439-96-5	238		0.0357	0.496		1
10145	Phosphorus		7723-14-0	289		0.347	9.93		1
01662	Potassium		7440-09-7	1,970		11.2	49.6		1
01667	Sodium		7440-23-5	89.3	J	5.91	99.3		1
07968	Strontium		7440-24-6	19.5		0.0248	0.496		1
06969	Tin		7440-31-5	2.72	J	0.318	9.93		1
06970	Titanium		7440-32-6	1,080		0.0698	0.983		1
10146	Zirconium		7440-67-7	2.86	J	0.457	4.96		1
		SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony		7440-36-0	0.0749	U	0.0749	0.202		2

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Sample Description: **SL-011-SA3-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435690
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6701 SDG#: DE267-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.41		0.0810	0.405		2
06126	Barium	7440-39-3	85.2		0.107	0.405		2
06127	Beryllium	7440-41-7	0.689		0.0162	0.101		2
06128	Cadmium	7440-43-9	0.127		0.0445	0.101		2
06131	Chromium	7440-47-3	17.8		0.121	0.405		2
06132	Cobalt	7440-48-4	6.94		0.0202	0.101		2
06133	Copper	7440-50-8	9.20		0.0810	0.405		2
06135	Lead	7439-92-1	8.25		0.0103	0.202		2
06138	Molybdenum	7439-98-7	0.290		0.0506	0.101		2
06139	Nickel	7440-02-0	12.3		0.101	0.405		2
06141	Selenium	7782-49-2	0.167	J	0.0587	0.405		2
06142	Silver	7440-22-4	0.0395	J	0.0144	0.101		2
06145	Thallium	7440-28-0	0.312		0.0304	0.101		2
06148	Vanadium	7440-62-2	35.2		0.0223	0.101		2
06149	Zinc	7440-66-6	68.2		0.567	3.04		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	U	0.0071	0.100		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.82	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.0	J	0.82	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.55		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.2		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Sample Description: **SL-011-SA3-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435690
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6701 SDG#: DE267-01BKG

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-011-SA3-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11290SLD026	11/01/2011 21:10	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11290SLE026	10/20/2011 14:00	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11287SLB026	10/17/2011 15:13	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11290SLD026	10/18/2011 06:55	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11287SLB026	10/14/2011 10:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLE026	10/18/2011 10:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11290B16A	10/17/2011 20:44	Laura M Krieger	24.65
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128625838	10/13/2011 12:43	Larry E Bevins	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128625838	10/13/2011 12:44	Larry E Bevins	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112880014A	10/20/2011 18:04	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112910002A	10/19/2011 19:34	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112900017A	10/21/2011 04:37	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112900017A	10/18/2011 10:15	Denise L Trimby	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112910002A	10/18/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880014A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112900025A	10/17/2011 19:32	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112930029A	10/20/2011 20:02	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112870007A	10/24/2011 18:22	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112910012A	10/20/2011 20:51	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112910012A	10/18/2011 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	112870007A	10/14/2011 13:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112900025A	10/17/2011 18:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112930029A	10/20/2011 16:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112875708002	10/24/2011 00:57	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112875708002	10/24/2011 00:57	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112875708002	10/24/2011 00:57	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112875708002	10/24/2011 00:57	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112875708002	10/24/2011 00:57	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112875708002	10/24/2011 00:57	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112875708002	10/24/2011 00:57	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112875708002	10/24/2011 00:57	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112875708002	10/24/2011 00:57	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112875708002	10/24/2011 00:57	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-011-SA3-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435690
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6701 SDG#: DE267-01BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112875708002	10/24/2011 00:57	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112875708002	10/24/2011 00:57	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112975708004	10/25/2011 13:50	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112875708002	10/24/2011 00:57	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112871026001A	10/18/2011 04:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112871026001A	10/18/2011 04:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112871026001D	10/18/2011 04:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112871026001A	10/18/2011 04:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112871026001A	10/18/2011 04:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112871026001A	10/18/2011 04:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112871026001A	10/18/2011 04:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112871026001A	10/18/2011 04:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112871026001A	10/18/2011 04:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112871026001C	10/19/2011 18:28	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	112871026001A	10/18/2011 04:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112871026001B	10/18/2011 04:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112871026001A	10/18/2011 04:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112871026001A	10/18/2011 04:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112871026001A	10/18/2011 04:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112871026001A	10/18/2011 04:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112875711001	10/17/2011 18:57	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112875708002	10/17/2011 10:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112975708004	10/24/2011 21:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112871026001	10/17/2011 11:24	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112875711001	10/17/2011 13:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11297495201B	10/25/2011 23:19	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11297495201B	10/25/2011 23:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11292621202B	10/20/2011 06:12	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11291243201A	10/20/2011 14:28	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11293102201A	10/21/2011 08:01	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11297495201B	10/24/2011 21:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11292621202B	10/19/2011 08:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11293102201A	10/20/2011 15:35	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11299039402A	10/26/2011 15:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-011-SA3-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435691
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6701 SDG#: DE267-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	883		17.0	34.0		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,700		17	170		1
04688	Acenaphthylene	208-96-8	1,800		17	170		1
04688	Aniline	62-53-3	1,200		170	510		1
04688	Anthracene	120-12-7	1,700		17	170		1
04688	Benzidine	92-87-5	3,300	J	1,200	3,400		1
04688	Benzo(a)anthracene	56-55-3	1,700		17	170		1
04688	Benzo(a)pyrene	50-32-8	1,700		17	170		1
04688	Benzo(b)fluoranthene	205-99-2	1,800		17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	1,900		17	170		1
04688	Benzo(k)fluoranthene	207-08-9	1,600		17	170		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	1,800		170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		17	170		1
04688	Butylbenzylphthalate	85-68-7	1,700		17	170		1
04688	Di-n-butylphthalate	84-74-2	1,600		17	170		1
04688	Carbazole	86-74-8	1,600		17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	1,900		34	170		1
04688	4-Chloroaniline	106-47-8	1,100		68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800		17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		17	170		1
04688	2-Chloronaphthalene	91-58-7	1,400		17	170		1
04688	2-Chlorophenol	95-57-8	1,700		17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		34	170		1
04688	Chrysene	218-01-9	1,600		17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	1,900		17	170		1
04688	Dibenzofuran	132-64-9	1,700		17	170		1
04688	1,2-Dichlorobenzene	95-50-1	1,500		17	170		1
04688	1,3-Dichlorobenzene	541-73-1	1,400		17	170		1
04688	1,4-Dichlorobenzene	106-46-7	1,400		17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	940		100	340		1
04688	2,4-Dichlorophenol	120-83-2	1,700		17	170		1
04688	Diethylphthalate	84-66-2	1,600		17	170		1
04688	2,4-Dimethylphenol	105-67-9	1,800		34	170		1
04688	3,5-Dimethylphenol	108-68-9	2,000		34	170		1
04688	Dimethylphthalate	131-11-3	1,700		17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	J	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	1,700		34	170		1
04688	2,6-Dinitrotoluene	606-20-2	1,800		17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700		17	340		1
04688	Fluoranthene	206-44-0	1,700		17	170		1
04688	Fluorene	86-73-7	1,700		17	170		1
04688	Hexachlorobenzene	118-74-1	1,800		17	170		1
04688	Hexachlorobutadiene	87-68-3	1,600		68	170		1

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Sample Description: SL-011-SA3-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435691
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6701 SDG#: DE267-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorocyclopentadiene	77-47-4	1,600		170	510		1
04688	Hexachloroethane	67-72-1	1,400		17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900		17	170		1
04688	Isophorone	78-59-1	1,800		17	170		1
04688	1-Methylnaphthalene	90-12-0	1,600		17	170		1
04688	2-Methylnaphthalene	91-57-6	1,700		17	170		1
04688	2-Methylphenol	95-48-7	1,800		34	170		1
04688	4-Methylphenol	106-44-5	1,800		34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,600		17	170		1
04688	2-Nitroaniline	88-74-4	1,800		17	170		1
04688	3-Nitroaniline	99-09-2	1,600		34	170		1
04688	4-Nitroaniline	100-01-6	1,300		68	170		1
04688	Nitrobenzene	98-95-3	1,800		17	170		1
04688	2-Nitrophenol	88-75-5	1,500		17	170		1
04688	4-Nitrophenol	100-02-7	1,100		170	510		1
04688	N-Nitrosodimethylamine	62-75-9	1,700		34	170		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700		17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	1,700		17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	1,800		17	170		1
04688	Pentachlorophenol	87-86-5	400	J	170	510		1
04688	Phenanthrene	85-01-8	1,600		17	170		1
04688	Phenol	108-95-2	1,800		17	170		1
04688	Pyrene	129-00-0	1,700		17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600		17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	1,600		34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	1,400		34	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	27		0.67	1.7		1
10138	Acenaphthylene	208-96-8	27		0.34	1.7		1
10138	Anthracene	120-12-7	30		0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	29		0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	29		0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	34		0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	16		0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	30		0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	24		6.0	18		1
10138	Di-n-butylphthalate	84-74-2	28		6.0	18		1
10138	Chrysene	218-01-9	29		0.34	1.7		1

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Sample Description: SL-011-SA3-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435691
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6701 SDG#: DE267-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	19		0.67	1.7		1
10138	Diethylphthalate	84-66-2	27		6.0	18		1
10138	Dimethylphthalate	131-11-3	29		6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	26		6.0	18		1
10138	Fluoranthene	206-44-0	39		0.67	1.7		1
10138	Fluorene	86-73-7	28		0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	19		0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	24		0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	24		0.67	1.7		1
10138	Naphthalene	91-20-3	27		0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	27		0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	31		6.0	18		1
10138	Phenanthrene	85-01-8	28		0.67	1.7		1
10138	Pyrene	129-00-0	22		0.67	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	20		0.2	1.1		25.83
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,200		61	120		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,200		41	120		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250		1
10132	1,3-Dinitrobenzene	99-65-0	2,300		41	120		1
10132	2,4-Dinitrotoluene	121-14-2	2,100		41	120		1
10132	2,6-Dinitrotoluene	606-20-2	2,200		41	120		1
10132	HMX	2691-41-0	1,900		100	310		1
10132	Nitrobenzene	98-95-3	2,200		41	120		1
10132	Nitroglycerin	55-63-0	49,000		820	2,500		1
10132	2-Nitrotoluene	88-72-2	2,100		82	120		1
10132	3-Nitrotoluene	99-08-1	2,300		100	120		1
10132	4-Nitrotoluene	99-99-0	2,100		82	120		1
10132	PETN	78-11-5	53,000		820	2,500		1
10132	RDX	121-82-4	2,100		51	120		1
10132	Tetryl	479-45-8	1,900		63	120		1
10132	1,3,5-Trinitrobenzene	99-35-4	2,100		41	120		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,200		41	120		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	4,900		610	1,500		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	2.1	J	1.0	3.4		1
10225	PCB-1016	12674-11-2	16		0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-011-SA3-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435691
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6701 SDG#: DE267-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	19		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,000		100	510		1
10501	Isopropanol	67-63-0	1,900		100	510		1
10501	Methanol	67-56-1	2,000		100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	11		5.1	10		1
08283	Ethylene glycol	107-21-1	92		5.1	10		1
08283	Propylene glycol	57-55-6	130		5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	7.8		1.5	3.6		1
10318	o-Terphenyl	84-15-1	9.1		1.5	3.6		1
10318	p-Terphenyl	92-94-4	7.3		1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.65	J	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	1.3		0.41	1.2		1
10199	EFH (C21-C30)	n.a.	4.5		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	9.3		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.51	J	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,600		6.01	19.9		1
07914	Boron	7440-42-8	188		0.357	4.96		1
01650	Calcium	7440-70-2	4,720		2.48	19.9		1
01654	Iron	7439-89-6	19,400		2.59	19.9		1
01656	Lithium	7439-93-2	125		0.62	2.0		1
01657	Magnesium	7439-95-4	3,930		0.437	9.93		1
06958	Manganese	7439-96-5	302		0.0357	0.496		1
10145	Phosphorus	7723-14-0	372		0.347	9.93		1
01662	Potassium	7440-09-7	3,220		11.2	49.6		1
01667	Sodium	7440-23-5	1,060		5.91	99.3		1
07968	Strontium	7440-24-6	114		0.0248	0.496		1
06969	Tin	7440-31-5	365		0.318	9.93		1
06970	Titanium	7440-32-6	1,340		0.0705	0.993		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-011-SA3-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435691
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6701 SDG#: DE267-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
10146	Zirconium	7440-67-7	98.2	0.457	4.96		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.676	0.0721	0.195		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.66	0.0779	0.390		2
06126	Barium	7440-39-3	89.8	0.103	0.390		2
06127	Beryllium	7440-41-7	1.53	0.0156	0.0974		2
06128	Cadmium	7440-43-9	1.38	0.0428	0.0974		2
06131	Chromium	7440-47-3	28.2	0.117	0.390		2
06132	Cobalt	7440-48-4	69.3	0.0195	0.0974		2
06133	Copper	7440-50-8	21.0	0.0779	0.390		2
06135	Lead	7439-92-1	12.2	0.0099	0.195		2
06138	Molybdenum	7439-98-7	13.2	0.0487	0.0974		2
06139	Nickel	7440-02-0	23.7	0.0974	0.390		2
06141	Selenium	7782-49-2	2.51	0.0565	0.390		2
06142	Silver	7440-22-4	12.8	0.0138	0.0974		2
06145	Thallium	7440-28-0	0.781	0.0292	0.0974		2
06148	Vanadium	7440-62-2	43.5	0.0214	0.0974		2
06149	Zinc	7440-66-6	68.7	0.545	2.92		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.163	0.0067	0.0956		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	9.9	0.83	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	10.8	0.83	1.5		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	573	9.2	30.7		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	36.1	0.20	1.0		5
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	4.5	0.18	0.51		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	2.2	0.50	0.50		1

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Sample Description: **SL-011-SA3-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435691
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6701 SDG#: DE267-01MS

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-011-SA3-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11290SLD026	11/01/2011 21:29	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11290SLE026	10/20/2011 14:25	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11287SLB026	10/17/2011 15:46	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11290SLD026	10/18/2011 06:55	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11287SLB026	10/14/2011 10:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLE026	10/18/2011 10:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11290B16A	10/17/2011 21:22	Laura M Krieger	25.83
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128625838	10/13/2011 12:45	Larry E Bevins	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128625838	10/13/2011 12:46	Larry E Bevins	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112880014A	10/20/2011 18:46	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112910002A	10/20/2011 16:19	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112900017A	10/21/2011 04:56	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112900017A	10/18/2011 10:15	Denise L Trimby	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112910002A	10/18/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880014A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112900025A	10/17/2011 20:22	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112930029A	10/20/2011 20:15	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112870007A	10/24/2011 18:44	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112910012A	10/20/2011 21:15	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112910012A	10/18/2011 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	112870007A	10/14/2011 13:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112900025A	10/17/2011 18:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112930029A	10/20/2011 16:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112875708002	10/24/2011 01:09	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112875708002	10/24/2011 01:09	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112875708002	10/24/2011 01:09	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112875708002	10/24/2011 01:09	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112875708002	10/24/2011 01:09	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112875708002	10/24/2011 01:09	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112875708002	10/24/2011 01:09	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112875708002	10/24/2011 01:09	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112875708002	10/24/2011 01:09	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112875708002	10/24/2011 01:09	Tara L Snyder	1

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-011-SA3-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435691
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6701 SDG#: DE267-01MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07968	Strontium	SW-846 6010B	1	112875708002	10/24/2011 01:09	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112875708002	10/24/2011 01:09	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112975708004	10/25/2011 14:02	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112875708002	10/24/2011 01:09	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112871026001A	10/18/2011 05:05	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112871026001A	10/18/2011 05:05	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112871026001D	10/18/2011 05:05	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112871026001A	10/18/2011 05:05	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112871026001A	10/18/2011 05:05	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112871026001A	10/18/2011 05:05	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112871026001A	10/18/2011 05:05	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112871026001A	10/18/2011 05:05	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112871026001A	10/18/2011 05:05	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112871026001C	10/18/2011 05:05	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112871026001A	10/18/2011 05:05	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112871026001B	10/18/2011 05:05	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112871026001A	10/18/2011 05:05	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112871026001A	10/18/2011 05:05	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112871026001A	10/18/2011 05:05	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112871026001A	10/18/2011 05:05	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112875711001	10/17/2011 19:00	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112875708002	10/17/2011 10:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112975708004	10/24/2011 21:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112871026001	10/17/2011 11:24	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112875711001	10/17/2011 13:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11297495201B	10/25/2011 23:51	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11297495201B	10/25/2011 23:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11292621202B	10/20/2011 07:21	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	3	11291243201A	10/21/2011 10:49	Elyse P Brunstetter	5
05895	16a Cyanide by 9012B	SW-846 9012B	1	11293102201A	10/21/2011 08:02	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11297495201B	10/24/2011 21:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11292621202B	10/19/2011 08:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11293102201A	10/20/2011 15:35	Carolyn M Mastropietro	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

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Analysis Report

Sample Description: SL-011-SA3-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435692
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6701 SDG#: DE267-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	881		17.0	34.0		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,700		17	170		1
04688	Acenaphthylene	208-96-8	1,800		17	170		1
04688	Aniline	62-53-3	1,200		170	510		1
04688	Anthracene	120-12-7	1,700		17	170		1
04688	Benzidine	92-87-5	3,100	J	1,200	3,400		1
04688	Benzo(a)anthracene	56-55-3	1,600		17	170		1
04688	Benzo(a)pyrene	50-32-8	1,700		17	170		1
04688	Benzo(b)fluoranthene	205-99-2	1,700		17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	1,800		17	170		1
04688	Benzo(k)fluoranthene	207-08-9	1,600		17	170		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	1,800		170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	1,700		17	170		1
04688	Butylbenzylphthalate	85-68-7	1,600		17	170		1
04688	Di-n-butylphthalate	84-74-2	1,600		17	170		1
04688	Carbazole	86-74-8	1,600		17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	1,900		34	170		1
04688	4-Chloroaniline	106-47-8	1,100		68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,700		17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600		17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		17	170		1
04688	2-Chloronaphthalene	91-58-7	1,300		17	170		1
04688	2-Chlorophenol	95-57-8	1,700		17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700		34	170		1
04688	Chrysene	218-01-9	1,600		17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	1,800		17	170		1
04688	Dibenzofuran	132-64-9	1,600		17	170		1
04688	1,2-Dichlorobenzene	95-50-1	1,400		17	170		1
04688	1,3-Dichlorobenzene	541-73-1	1,400		17	170		1
04688	1,4-Dichlorobenzene	106-46-7	1,400		17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,000		100	340		1
04688	2,4-Dichlorophenol	120-83-2	1,800		17	170		1
04688	Diethylphthalate	84-66-2	1,600		17	170		1
04688	2,4-Dimethylphenol	105-67-9	1,800		34	170		1
04688	3,5-Dimethylphenol	108-68-9	2,000		34	170		1
04688	Dimethylphthalate	131-11-3	1,600		17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	J	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	1,700		34	170		1
04688	2,6-Dinitrotoluene	606-20-2	1,700		17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700		17	340		1
04688	Fluoranthene	206-44-0	1,600		17	170		1
04688	Fluorene	86-73-7	1,700		17	170		1
04688	Hexachlorobenzene	118-74-1	1,800		17	170		1
04688	Hexachlorobutadiene	87-68-3	1,600		68	170		1

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Sample Description: SL-011-SA3-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435692
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6701 SDG#: DE267-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	Hexachlorocyclopentadiene	77-47-4	1,600	170	510		1
04688	Hexachloroethane	67-72-1	1,400	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800	17	170		1
04688	Isophorone	78-59-1	1,800	17	170		1
04688	1-Methylnaphthalene	90-12-0	1,600	17	170		1
04688	2-Methylnaphthalene	91-57-6	1,700	17	170		1
04688	2-Methylphenol	95-48-7	1,800	34	170		1
04688	4-Methylphenol	106-44-5	1,800	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,600	17	170		1
04688	2-Nitroaniline	88-74-4	1,800	17	170		1
04688	3-Nitroaniline	99-09-2	1,600	34	170		1
04688	4-Nitroaniline	100-01-6	1,300	68	170		1
04688	Nitrobenzene	98-95-3	1,800	17	170		1
04688	2-Nitrophenol	88-75-5	1,800	17	170		1
04688	4-Nitrophenol	100-02-7	1,300	170	510		1
04688	N-Nitrosodimethylamine	62-75-9	1,700	34	170		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	1,600	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,700	17	170		1
04688	Pentachlorophenol	87-86-5	690	170	510		1
04688	Phenanthrene	85-01-8	1,600	17	170		1
04688	Phenol	108-95-2	1,700	17	170		1
04688	Pyrene	129-00-0	1,600	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	1,700	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	1,700	34	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol						
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	30	0.67	1.7		1
10138	Acenaphthylene	208-96-8	29	0.34	1.7		1
10138	Anthracene	120-12-7	32	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	32	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	31	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	37	0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	18	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	32	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	26	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	30	6.0	18		1
10138	Chrysene	218-01-9	32	0.34	1.7		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-011-SA3-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435692
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6701 SDG#: DE267-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	21		0.67	1.7		1
10138	Diethylphthalate	84-66-2	29		6.0	18		1
10138	Dimethylphthalate	131-11-3	33		6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	28		6.0	18		1
10138	Fluoranthene	206-44-0	40		0.67	1.7		1
10138	Fluorene	86-73-7	30		0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	21		0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	28		0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	28		0.67	1.7		1
10138	Naphthalene	91-20-3	30		0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	31		0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	32		6.0	18		1
10138	Phenanthrene	85-01-8	31		0.67	1.7		1
10138	Pyrene	129-00-0	25		0.67	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	22		0.3	1.3		31.73
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,300		61	120		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,200		41	120		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250		1
10132	1,3-Dinitrobenzene	99-65-0	2,300		41	120		1
10132	2,4-Dinitrotoluene	121-14-2	2,100		41	120		1
10132	2,6-Dinitrotoluene	606-20-2	2,100		41	120		1
10132	HMX	2691-41-0	1,900		100	310		1
10132	Nitrobenzene	98-95-3	2,100		41	120		1
10132	Nitroglycerin	55-63-0	49,000		820	2,500		1
10132	2-Nitrotoluene	88-72-2	2,100		82	120		1
10132	3-Nitrotoluene	99-08-1	2,200		100	120		1
10132	4-Nitrotoluene	99-99-0	2,100		82	120		1
10132	PETN	78-11-5	53,000		820	2,500		1
10132	RDX	121-82-4	2,000		51	120		1
10132	Tetryl	479-45-8	1,900		63	120		1
10132	1,3,5-Trinitrobenzene	99-35-4	2,100		41	120		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,200		41	120		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	5,100		610	1,500		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	13		0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1

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Sample Description: **SL-011-SA3-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435692
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6701 SDG#: DE267-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	15		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,100		100	510		1
10501	Isopropanol	67-63-0	2,100		100	510		1
10501	Methanol	67-56-1	2,200		100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	17		5.1	10		1
08283	Ethylene glycol	107-21-1	87		5.1	10		1
08283	Propylene glycol	57-55-6	130		5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	7.9		1.5	3.6		1
10318	o-Terphenyl	84-15-1	9.2		1.5	3.6		1
10318	p-Terphenyl	92-94-4	7.8		1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	7.7		0.41	1.2		1
10199	EFH (C15-C20)	n.a.	18		0.41	1.2		1
10199	EFH (C21-C30)	n.a.	8.7		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	7.5		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	1.1	J	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	11,600		6.12	20.2		1
07914	Boron	7440-42-8	189		0.364	5.06		1
01650	Calcium	7440-70-2	5,390		2.53	20.2		1
01654	Iron	7439-89-6	18,300		2.64	20.2		1
01656	Lithium	7439-93-2	124		0.63	2.0		1
01657	Magnesium	7439-95-4	3,870		0.445	10.1		1
06958	Manganese	7439-96-5	286		0.0364	0.506		1
10145	Phosphorus	7723-14-0	550		0.354	10.1		1
01662	Potassium	7440-09-7	3,180		11.4	50.6		1
01667	Sodium	7440-23-5	1,040		6.02	101		1
07968	Strontium	7440-24-6	114		0.0253	0.506		1
06969	Tin	7440-31-5	371		0.324	10.1		1
06970	Titanium	7440-32-6	1,330		0.0698	0.983		1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-011-SA3-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435692
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6701 SDG#: DE267-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
10146	Zirconium	7440-67-7	99.6	0.466	5.06		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.490	0.0721	0.195		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.17	0.0779	0.390		2
06126	Barium	7440-39-3	76.1	0.103	0.390		2
06127	Beryllium	7440-41-7	1.40	0.0156	0.0974		2
06128	Cadmium	7440-43-9	1.24	0.0428	0.0974		2
06131	Chromium	7440-47-3	24.7	0.117	0.390		2
06132	Cobalt	7440-48-4	62.5	0.0195	0.0974		2
06133	Copper	7440-50-8	18.8	0.0779	0.390		2
06135	Lead	7439-92-1	9.09	0.0099	0.195		2
06138	Molybdenum	7439-98-7	11.7	0.0487	0.0974		2
06139	Nickel	7440-02-0	20.1	0.0974	0.390		2
06141	Selenium	7782-49-2	2.16	0.0565	0.390		2
06142	Silver	7440-22-4	11.8	0.0138	0.0974		2
06145	Thallium	7440-28-0	0.707	0.0292	0.0974		2
06148	Vanadium	7440-62-2	38.5	0.0214	0.0974		2
06149	Zinc	7440-66-6	66.3	0.545	2.92		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.165	0.0070	0.0995		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	2.2	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-011-SA3-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11290SLD026	11/01/2011 21:48	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11290SLE026	10/20/2011 14:50	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11287SLB026	10/17/2011 16:19	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11290SLD026	10/18/2011 06:55	Katheryne V Sponheimer	1

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Sample Description: **SL-011-SA3-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435692
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6701 SDG#: DE267-01MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11287SLB026	10/14/2011 10:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLE026	10/18/2011 10:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11290B16A	10/17/2011 22:00	Laura M Krieger	31.73
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128625838	10/13/2011 12:46	Larry E Bevins	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128625838	10/13/2011 12:47	Larry E Bevins	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112880014A	10/20/2011 19:28	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112910002A	10/19/2011 19:53	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112900017A	10/21/2011 05:15	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112900017A	10/18/2011 10:15	Denise L Trimby	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112910002A	10/18/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880014A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112900025A	10/17/2011 20:39	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112930029A	10/20/2011 20:28	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112870007A	10/24/2011 19:07	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112910012A	10/20/2011 21:39	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112910012A	10/18/2011 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	112870007A	10/14/2011 13:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	2	112900025A	10/17/2011 18:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112930029A	10/20/2011 16:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112875708002	10/24/2011 01:12	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112875708002	10/24/2011 01:12	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112875708002	10/24/2011 01:12	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112875708002	10/24/2011 01:12	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112875708002	10/24/2011 01:12	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112875708002	10/24/2011 01:12	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112875708002	10/24/2011 01:12	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112875708002	10/24/2011 01:12	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112875708002	10/24/2011 01:12	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112875708002	10/24/2011 01:12	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112875708002	10/24/2011 01:12	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112875708002	10/24/2011 01:12	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112975708004	10/25/2011 14:06	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112875708002	10/24/2011 01:12	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112871026001A	10/18/2011 05:08	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112871026001A	10/18/2011 05:08	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112871026001D	10/18/2011 05:08	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112871026001A	10/18/2011 05:08	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112871026001A	10/18/2011 05:08	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112871026001A	10/18/2011 05:08	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112871026001A	10/18/2011 05:08	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112871026001A	10/18/2011 05:08	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112871026001A	10/18/2011 05:08	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112871026001C	10/18/2011 05:08	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-011-SA3-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435692
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6701 SDG#: DE267-01MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06139	Nickel	SW-846 6020	1	112871026001A	10/18/2011 05:08	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112871026001B	10/18/2011 05:08	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112871026001A	10/18/2011 05:08	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112871026001A	10/18/2011 05:08	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112871026001A	10/18/2011 05:08	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112871026001A	10/18/2011 05:08	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112875711001	10/17/2011 19:01	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112875708002	10/17/2011 10:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112975708004	10/24/2011 21:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112871026001	10/17/2011 11:24	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112875711001	10/17/2011 13:00	James L Mertz	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA3-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435693
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6701 SDG#: DE267-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,600		6.01	19.9		1
07914	Boron	7440-42-8	3.70	J	0.357	4.96		1
01650	Calcium	7440-70-2	4,910		2.48	19.9		1
01654	Iron	7439-89-6	19,000		2.59	19.9		1
01656	Lithium	7439-93-2	26.8		0.62	2.0		1
01657	Magnesium	7439-95-4	3,640		0.437	9.93		1
06958	Manganese	7439-96-5	260		0.0357	0.496		1
10145	Phosphorus	7723-14-0	286		0.347	9.93		1
01662	Potassium	7440-09-7	2,110		11.2	49.6		1
01667	Sodium	7440-23-5	91.7	J	5.91	99.3		1
07968	Strontium	7440-24-6	19.8		0.0248	0.496		1
06969	Tin	7440-31-5	2.77	J	0.318	9.93		1
06970	Titanium	7440-32-6	1,050		0.0705	0.993		1
10146	Zirconium	7440-67-7	4.08	J	0.457	4.96		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0735	U	0.0735	0.199		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.21		0.0794	0.397		2
06126	Barium	7440-39-3	68.2		0.105	0.397		2
06127	Beryllium	7440-41-7	0.580		0.0159	0.0993		2
06128	Cadmium	7440-43-9	0.132		0.0437	0.0993		2
06131	Chromium	7440-47-3	17.2		0.119	0.397		2
06132	Cobalt	7440-48-4	6.03		0.0199	0.0993		2
06133	Copper	7440-50-8	8.99		0.0794	0.397		2
06135	Lead	7439-92-1	6.50		0.0101	0.199		2
06138	Molybdenum	7439-98-7	0.311		0.0496	0.0993		2
06139	Nickel	7440-02-0	9.96		0.0993	0.397		2
06141	Selenium	7782-49-2	0.123	J	0.0576	0.397		2
06142	Silver	7440-22-4	0.0185	J	0.0141	0.0993		2
06145	Thallium	7440-28-0	0.238		0.0298	0.0993		2
06148	Vanadium	7440-62-2	28.3		0.0218	0.0993		2
06149	Zinc	7440-66-6	61.8		0.556	2.98		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0069	U	0.0069	0.0978		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9		0.81	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.91	J	0.81	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-011-SA3-SB-4.0-5.0DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435693
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6701 SDG#: DE267-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18 U	0.18	0.49		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.53	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	2.3	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						
11625	Moisture Content by 160.3	n.a.	2.2	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	112875708002	10/24/2011 01:05	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112875708002	10/24/2011 01:05	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112875708002	10/24/2011 01:05	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112875708002	10/24/2011 01:05	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112875708002	10/24/2011 01:05	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112875708002	10/24/2011 01:05	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112875708002	10/24/2011 01:05	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112875708002	10/24/2011 01:05	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112875708002	10/24/2011 01:05	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112875708002	10/24/2011 01:05	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112875708002	10/24/2011 01:05	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112875708002	10/24/2011 01:05	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112975708004	10/25/2011 13:58	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112875708002	10/24/2011 01:05	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112871026001A	10/18/2011 05:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112871026001A	10/18/2011 05:02	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112871026001D	10/18/2011 05:02	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112871026001A	10/18/2011 05:02	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112871026001A	10/18/2011 05:02	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112871026001A	10/18/2011 05:02	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112871026001A	10/18/2011 05:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112871026001A	10/18/2011 05:02	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112871026001A	10/18/2011 05:02	Choon Y Tian	2

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Analysis Report

Sample Description: SL-011-SA3-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435693
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6701 SDG#: DE267-01DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	112871026001C	10/19/2011 18:31	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	112871026001A	10/18/2011 05:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112871026001B	10/18/2011 05:02	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112871026001A	10/18/2011 05:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112871026001A	10/18/2011 05:02	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112871026001A	10/18/2011 05:02	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112871026001A	10/18/2011 05:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112875711001	10/17/2011 18:59	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112875708002	10/17/2011 10:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112975708004	10/24/2011 21:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112871026001	10/17/2011 11:24	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112875711001	10/17/2011 13:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11297495201B	10/25/2011 23:35	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11297495201B	10/25/2011 23:35	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11292621202B	10/20/2011 06:35	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11291243201A	10/20/2011 15:41	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11293102201A	10/21/2011 08:03	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11297495201B	10/24/2011 21:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11292621202B	10/19/2011 08:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11293102201A	10/20/2011 15:35	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11299039402A	10/26/2011 15:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

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Analysis Report

Sample Description: SL-011-SA3-SB-4.0-5.0RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435694
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6701 SDG#: DE267-01RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	130		61	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	120	J	41	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	82	U	82	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	82	U	82	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	120	J	41	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	120	J	41	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	120	J	41	120	10000000	1
10132	HMX	2691-41-0	120	J	100	310	10000000	1
10132	Nitrobenzene	98-95-3	110	J	41	120	10000000	1
10132	Nitroglycerin	55-63-0	2,600		820	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	160		82	120	10000000	1
10132	3-Nitrotoluene	99-08-1	150		100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	140		82	120	10000000	1
10132	PETN	78-11-5	2,700		820	2,500	10000000	1
10132	RDX	121-82-4	93	J	51	120	10000000	1
10132	Tetryl	479-45-8	87	J	63	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	110	J	41	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	110	J	41	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	1,800		610	1,500		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.5	J	1.0	3.4		1
10225	PCB-1016	12674-11-2	1.9		0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1

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Sample Description: SL-011-SA3-SB-4.0-5.0RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435694
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6701 SDG#: DE267-01RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	2.5		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	540		100	510		1
10501	Isopropanol	67-63-0	500	J	100	510		1
10501	Methanol	67-56-1	630		100	510		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	J	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.8	J	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.7	J	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.68	J	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	2.6		0.41	1.2		1
10199	EFH (C21-C30)	n.a.	15		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	38		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.41	U	0.41	1.2		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	2.2		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10132	15a Energetics by 8330A	SW-846 8330A	1	112880014A	10/20/2011 20:11	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112910002A	10/19/2011 20:02	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112900017A	10/21/2011 05:34	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112900017A	10/18/2011 10:15	Denise L Trimby	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112910002A	10/18/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880014A	10/17/2011 17:00	Kelli M Barto	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-011-SA3-SB-4.0-5.0RL MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435694
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6701 SDG#: DE267-01RLR

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10501	18a Alcohols by 8015B	SW-846 8015B	1	112900025A	10/17/2011 20:55	Elizabeth J Marin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112870007A	10/24/2011 19:29	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112910012A	10/20/2011 23:15	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112910012A	10/18/2011 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	112870007A	10/14/2011 13:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112900025A	10/17/2011 18:30	Elizabeth J Marin	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-011-SA3-SB-4.0-5.0RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435695
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6701 SDG#: DE267-01RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	120		60	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	110	J	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	80	U	80	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	80	U	80	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	110	J	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	110	J	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	110	J	40	120	10000000	1
10132	HMX	2691-41-0	110	J	100	300	10000000	1
10132	Nitrobenzene	98-95-3	100	J	40	120	10000000	1
10132	Nitroglycerin	55-63-0	2,100	J	800	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	150		80	120	10000000	1
10132	3-Nitrotoluene	99-08-1	130		100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	130		80	120	10000000	1
10132	PETN	78-11-5	2,500		800	2,400	10000000	1
10132	RDX	121-82-4	81	J	50	120	10000000	1
10132	Tetryl	479-45-8	75	J	61	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	110	J	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	100	J	40	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	1,800		600	1,500		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	1.7	J	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-011-SA3-SB-4.0-5.0RL LCS Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435695
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6701 SDG#: DE267-01RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1
10225	PCB-1260	11096-82-5	1.8		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	570		100	500		1
10501	Isopropanol	67-63-0	530		100	500		1
10501	Methanol	67-56-1	580		100	500		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	J	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.8	J	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.6	J	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	0.72	J	0.40	1.2		1
10199	EFH (C21-C30)	n.a.	1.2	J	0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	1.7		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.40	U	0.40	1.2		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10132	15a Energetics by 8330A	SW-846 8330A	1	112880014A	10/20/2011 20:53	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112910002A	10/19/2011 20:12	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112900017A	10/21/2011 05:53	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112900017A	10/18/2011 10:15	Denise L Trimby	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112910002A	10/18/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880014A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112900025A	10/17/2011 21:12	Elizabeth J Marin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112870007A	10/21/2011 23:27	Robert Brown	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **SL-011-SA3-SB-4.0-5.0RL LCS Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435695
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6701 SDG#: DE267-01RLQ

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112910012A	10/20/2011 22:03	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112910012A	10/18/2011 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	112870007A	10/14/2011 13:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112900025A	10/17/2011 18:30	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-096-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA7-SB-2.0-3.0

LLI Sample # SW 6435696
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 11:40

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6702 SDG#: DE267-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.4	U	17.4	34.8		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	35	J	17	350		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-096-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA7-SB-2.0-3.0

LLI Sample # SW 6435696
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 11:40

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6702 SDG#: DE267-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	18	J	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	1.3	J	0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19		1
10138	Chrysene	218-01-9	0.82	J	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Fluoranthene	206-44-0	1.6	J	0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.70	J	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19		1
10138	Phenanthrene	85-01-8	0.77	J	0.69	1.7		1
10138	Pyrene	129-00-0	1.2	J	0.69	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		26.32
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-096-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA7-SB-2.0-3.0

LLI Sample # SW 6435696
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 11:40

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6702 SDG#: DE267-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	60	U	60	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	40	U	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	80	U	80	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	80	U	80	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	40	U	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	40	U	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	40	U	40	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	40	U	40	120	10000000	1
10132	Nitroglycerin	55-63-0	800	U	800	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	80	U	80	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	80	U	80	120	10000000	1
10132	PETN	78-11-5	800	U	800	2,400	10000000	1
10132	RDX	121-82-4	50	U	50	120	10000000	1
10132	Tetryl	479-45-8	61	U	61	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	40	U	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	40	U	40	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	630	U	630	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-096-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-096-SA7-SB-2.0-3.0

LLI Sample # SW 6435696
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 11:40

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6702 SDG#: DE267-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8		1
10225	PCB-1260	11096-82-5	0.67	J	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	1.0	J	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	0.70	J	0.42	1.3		1
10199	EFH (C21-C30)	n.a.	5.4		0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	21		0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	9,850		6.32	20.9		1
07914	Boron	7440-42-8	3.77	J	0.376	5.22		1
01650	Calcium	7440-70-2	6,910		2.61	20.9		1
01654	Iron	7439-89-6	18,400		2.73	20.9		1
01656	Lithium	7439-93-2	28.1		0.65	2.1		1
01657	Magnesium	7439-95-4	3,700		0.460	10.4		1
06958	Manganese	7439-96-5	250		0.0376	0.522		1
10145	Phosphorus	7723-14-0	276		0.366	10.4		1
01662	Potassium	7440-09-7	2,200		11.8	52.2		1
01667	Sodium	7440-23-5	122		6.22	104		1
07968	Strontium	7440-24-6	24.4		0.0261	0.522		1
06969	Tin	7440-31-5	2.77	J	0.334	10.4		1
06970	Titanium	7440-32-6	1,130		0.0727	1.02		1
10146	Zirconium	7440-67-7	3.08	J	0.481	5.22		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-096-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA7-SB-2.0-3.0

LLI Sample # SW 6435696
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 11:40

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6702 SDG#: DE267-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0773 U	0.0773	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.62	0.0836	0.418		2
06126	Barium	7440-39-3	53.8	0.111	0.418		2
06127	Beryllium	7440-41-7	0.434	0.0167	0.104		2
06128	Cadmium	7440-43-9	0.0640 J	0.0460	0.104		2
06131	Chromium	7440-47-3	11.4	0.125	0.418		2
06132	Cobalt	7440-48-4	4.50	0.0209	0.104		2
06133	Copper	7440-50-8	6.05	0.0836	0.418		2
06135	Lead	7439-92-1	4.34	0.0107	0.209		2
06138	Molybdenum	7439-98-7	0.325	0.0522	0.104		2
06139	Nickel	7440-02-0	7.27	0.104	0.418		2
06141	Selenium	7782-49-2	0.0606 U	0.0606	0.418		2
06142	Silver	7440-22-4	0.0188 J	0.0148	0.104		2
06145	Thallium	7440-28-0	0.193	0.0313	0.104		2
06148	Vanadium	7440-62-2	24.5	0.0230	0.104		2
06149	Zinc	7440-66-6	46.8	0.585	3.13		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073 U	0.0073	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5	0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9	0.85	1.6		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4 U	9.4	31.3		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26 J	0.21	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.51		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.22	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: **SL-096-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA7-SB-2.0-3.0

LLI Sample # SW 6435696
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 11:40

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6702 SDG#: DE267-02

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-096-SA7-SB-2.5.
The encores for this sample were received on 10/14/11 at 9:15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11290SLD026	11/01/2011 22:07	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11290SLE026	10/20/2011 15:15	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11287SLB026	10/18/2011 10:46	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11290SLD026	10/18/2011 06:55	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11287SLB026	10/14/2011 10:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLE026	10/18/2011 10:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11290B16B	10/18/2011 20:44	Carrie E Miller	26.32
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128725848	10/14/2011 13:10	Stephanie A Sanchez	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128725848	10/14/2011 13:11	Stephanie A Sanchez	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112880014A	10/20/2011 21:36	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112910002A	10/19/2011 20:21	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112900017A	10/21/2011 06:11	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112900017A	10/18/2011 10:15	Denise L Trimby	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112910002A	10/18/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880014A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112900025A	10/17/2011 19:49	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112930029A	10/20/2011 20:40	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112870007A	10/22/2011 01:18	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112910012A	10/20/2011 22:27	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112910012A	10/18/2011 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	112870007A	10/14/2011 13:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112900025A	10/17/2011 18:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112930029A	10/20/2011 16:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112875708002	10/24/2011 01:20	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112875708002	10/24/2011 01:20	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112875708002	10/24/2011 01:20	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112875708002	10/24/2011 01:20	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112875708002	10/24/2011 01:20	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112875708002	10/24/2011 01:20	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112875708002	10/24/2011 01:20	Tara L Snyder	1

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Sample Description: **SL-096-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA7-SB-2.0-3.0

LLI Sample # SW 6435696
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 11:40

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E6702 SDG#: DE267-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	112875708002	10/24/2011 01:20	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112875708002	10/24/2011 01:20	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112875708002	10/24/2011 01:20	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112875708002	10/24/2011 01:20	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112875708002	10/24/2011 01:20	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112975708004	10/25/2011 14:14	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112875708002	10/24/2011 01:20	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112871026001A	10/18/2011 05:20	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112871026001A	10/18/2011 05:20	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112871026001D	10/18/2011 05:20	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112871026001A	10/18/2011 05:20	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112871026001A	10/18/2011 05:20	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112871026001A	10/18/2011 05:20	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112871026001A	10/18/2011 05:20	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112871026001A	10/18/2011 05:20	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112871026001A	10/18/2011 05:20	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112871026001C	10/19/2011 18:35	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	112871026001A	10/18/2011 05:20	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112871026001B	10/18/2011 05:20	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112871026001A	10/18/2011 05:20	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112871026001A	10/18/2011 05:20	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112871026001A	10/18/2011 05:20	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112871026001A	10/18/2011 05:20	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112875711001	10/17/2011 19:03	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112875708002	10/17/2011 10:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112975708004	10/24/2011 21:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112871026001	10/17/2011 11:24	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112875711001	10/17/2011 13:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11299621201A	10/27/2011 11:00	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11299621201A	10/27/2011 11:00	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11292621202B	10/20/2011 07:44	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11291243201A	10/20/2011 15:48	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11293102201A	10/21/2011 08:07	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11299621201A	10/26/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11292621202B	10/19/2011 08:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11293102201A	10/20/2011 15:35	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11299039402A	10/26/2011 15:00	Michele L Graham	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-096-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA7-SB-2.0-3.0

LLI Sample # SW 6435696
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 11:40

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6702 SDG#: DE267-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: DUP01-SA3-QC-101211 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA3-QC-101211

LLI Sample # SW 6435697
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:35

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6703 SDG#: DE267-03FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	16.9	U	16.9	33.8		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP01-SA3-QC-101211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA3-QC-101211

LLI Sample # SW 6435697
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:35

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6703 SDG#: DE267-03FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
	The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: 4,6-dinitro-2-methylphenol							
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.67	U	0.67	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.67	U	0.67	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.67	U	0.67	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.67	U	0.67	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.88	J	0.67	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.67	U	0.67	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.0	U	6.0	18		1
10138	Di-n-butylphthalate	84-74-2	6.0	U	6.0	18		1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.67	U	0.67	1.7		1
10138	Diethylphthalate	84-66-2	6.0	U	6.0	18		1
10138	Dimethylphthalate	131-11-3	6.0	U	6.0	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.0	U	6.0	18		1
10138	Fluoranthene	206-44-0	0.67	U	0.67	1.7		1
10138	Fluorene	86-73-7	0.67	U	0.67	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.67	U	0.67	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.67	U	0.67	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.67	U	0.67	1.7		1
10138	Naphthalene	91-20-3	0.67	U	0.67	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.67	U	0.67	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.0	U	6.0	18		1
10138	Phenanthrene	85-01-8	0.67	U	0.67	1.7		1
10138	Pyrene	129-00-0	0.67	U	0.67	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		27.35
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	60	U	60	120	10000000	1

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Sample Description: **DUP01-SA3-QC-101211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA3-QC-101211

LLI Sample # SW 6435697
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:35

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6703 SDG#: DE267-03FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	40	U	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	80	U	80	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	80	U	80	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	40	U	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	40	U	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	40	U	40	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	40	U	40	120	10000000	1
10132	Nitroglycerin	55-63-0	800	U	800	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	80	U	80	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	80	U	80	120	10000000	1
10132	PETN	78-11-5	800	U	800	2,400	10000000	1
10132	RDX	121-82-4	50	U	50	120	10000000	1
10132	Tetryl	479-45-8	61	U	61	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	40	U	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	40	U	40	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.7		1
10225	PCB-1260	11096-82-5	1.2	J	0.40	1.7		1

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Sample Description: **DUP01-SA3-QC-101211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA3-QC-101211

LLI Sample # SW 6435697
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:35

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6703 SDG#: DE267-03FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	0.48	J	0.41	1.2		1
10199	EFH (C21-C30)	n.a.	2.4		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	6.5		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.41	U	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,500		6.02	19.9		1
07914	Boron	7440-42-8	3.21	J	0.358	4.97		1
01650	Calcium	7440-70-2	7,000		2.49	19.9		1
01654	Iron	7439-89-6	19,400		2.60	19.9		1
01656	Lithium	7439-93-2	28.7		0.62	2.0		1
01657	Magnesium	7439-95-4	3,920		0.438	9.95		1
06958	Manganese	7439-96-5	264		0.0358	0.497		1
10145	Phosphorus	7723-14-0	291		0.348	9.95		1
01662	Potassium	7440-09-7	2,320		11.2	49.7		1
01667	Sodium	7440-23-5	125		5.92	99.5		1
07968	Strontium	7440-24-6	26.1		0.0249	0.497		1
06969	Tin	7440-31-5	2.81	J	0.318	9.95		1
06970	Titanium	7440-32-6	1,030		0.0713	1.00		1
10146	Zirconium	7440-67-7	2.91	J	0.458	4.97		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0743	U	0.0743	0.201		2

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Sample Description: **DUP01-SA3-QC-101211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA3-QC-101211

LLI Sample # SW 6435697
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:35

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6703 SDG#: DE267-03FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.83	0.0804	0.402		2
06126	Barium	7440-39-3	63.0	0.106	0.402		2
06127	Beryllium	7440-41-7	0.471	0.0161	0.100		2
06128	Cadmium	7440-43-9	0.0958 J	0.0442	0.100		2
06131	Chromium	7440-47-3	12.6	0.121	0.402		2
06132	Cobalt	7440-48-4	4.87	0.0201	0.100		2
06133	Copper	7440-50-8	6.91	0.0804	0.402		2
06135	Lead	7439-92-1	5.20	0.0102	0.201		2
06138	Molybdenum	7439-98-7	0.363	0.0502	0.100		2
06139	Nickel	7440-02-0	8.45	0.100	0.402		2
06141	Selenium	7782-49-2	0.0591 J	0.0583	0.402		2
06142	Silver	7440-22-4	0.0334 J	0.0143	0.100		2
06145	Thallium	7440-28-0	0.215	0.0301	0.100		2
06148	Vanadium	7440-62-2	26.0	0.0221	0.100		2
06149	Zinc	7440-66-6	49.4	0.563	3.01		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0068 U	0.0068	0.0971		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2	0.80	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.96 J	0.80	1.5		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2 U	9.2	30.7		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20 U	0.20	1.0		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18 U	0.18	0.50		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.65	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.4	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: **DUP01-SA3-QC-101211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA3-QC-101211

LLI Sample # SW 6435697
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:35

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6703 SDG#: DE267-03FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11290SLD026	11/01/2011 22:26	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11290SLE026	10/20/2011 15:40	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11287SLB026	10/18/2011 11:19	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11290SLD026	10/18/2011 06:55	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11287SLB026	10/14/2011 10:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLE026	10/18/2011 10:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11290B16B	10/18/2011 21:21	Carrie E Miller	27.35
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128625838	10/13/2011 12:41	Larry E Bevins	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128625838	10/13/2011 12:41	Larry E Bevins	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112880014A	10/20/2011 23:43	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112910002A	10/19/2011 20:31	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112900017A	10/21/2011 06:30	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112900017A	10/18/2011 10:15	Denise L Trimby	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112910002A	10/18/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880014A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112900025A	10/17/2011 20:06	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112930029A	10/20/2011 20:53	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112870007A	10/22/2011 00:56	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112910012A	10/20/2011 22:51	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112910012A	10/18/2011 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	112870007A	10/14/2011 13:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112900025A	10/17/2011 18:30	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112930029A	10/20/2011 16:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112875708002	10/24/2011 01:31	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112875708002	10/24/2011 01:31	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112875708002	10/24/2011 01:31	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112875708002	10/24/2011 01:31	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112875708002	10/24/2011 01:31	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112875708002	10/24/2011 01:31	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112875708002	10/24/2011 01:31	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112875708002	10/24/2011 01:31	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112875708002	10/24/2011 01:31	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	112875708002	10/24/2011 01:31	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	112875708002	10/24/2011 01:31	Tara L Snyder	1

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Sample Description: **DUP01-SA3-QC-101211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA3-QC-101211

LLI Sample # SW 6435697
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:35

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6703 SDG#: DE267-03FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112875708002	10/24/2011 01:31	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112975708004	10/25/2011 14:26	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112875708002	10/24/2011 01:31	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112871026001A	10/18/2011 05:23	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112871026001A	10/18/2011 05:23	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112871026001D	10/18/2011 05:23	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112871026001A	10/18/2011 05:23	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112871026001A	10/18/2011 05:23	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112871026001A	10/18/2011 05:23	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112871026001A	10/18/2011 05:23	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112871026001A	10/18/2011 05:23	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112871026001A	10/18/2011 05:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112871026001C	10/19/2011 18:37	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	112871026001A	10/18/2011 05:23	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112871026001B	10/18/2011 05:23	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112871026001A	10/18/2011 05:23	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112871026001A	10/18/2011 05:23	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112871026001A	10/18/2011 05:23	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112871026001A	10/18/2011 05:23	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112875711001	10/17/2011 19:04	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112875708002	10/17/2011 10:27	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112975708004	10/24/2011 21:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112871026001	10/17/2011 11:24	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112875711001	10/17/2011 13:00	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11299621201A	10/27/2011 11:45	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11299621201A	10/27/2011 11:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11292621202B	10/20/2011 08:07	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11291243201A	10/20/2011 16:02	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11293102201A	10/21/2011 08:08	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11299621201A	10/26/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11292621202B	10/19/2011 08:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11293102201A	10/20/2011 15:35	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11299039402A	10/26/2011 15:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA3-SB-101211 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA3-SB-101211

LLI Sample # WW 6435698
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 14:23

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6704 SDG#: DE267-04EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/l**	**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	2.54	0.508	1.02		1

The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.

N-nitrosodimethylamine was detected in the method blank at a concentration of 1.14 ng/l. The blank value was not subtracted from the analytical result.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11286WAH026	10/17/2011 18:53	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11286WAH026	10/14/2011 03:10	David V Hershey Jr	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **TB-101211 Water**
SSFL Area IV Collocated Soil Sampling
TB-101211

LLI Sample # WW 6435699
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 08:00

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6705 SDG#: DE267-05TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/l	ng/l	ng/l	ng/l	
10962	N-Nitrosodimethylamine	62-75-9	1.03	0.492	0.983		1

The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.

N-nitrosodimethylamine was detected in the method blank at a concentration of 1.14 ng/l. The blank value was not subtracted from the analytical result.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11286WAH026	10/17/2011 19:12	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11286WAH026	10/14/2011 03:10	David V Hershey Jr	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-101211 Sand**
SSFL Area IV Collocated Soil Sampling
TB-101211

LLI Sample # SW 6435700
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 08:00

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6706 SDG#: DE267-06TB

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	16.7	U	16.7	33.3		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.50	U	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11290SLD026	11/01/2011 22:45	Matthew S Woods	1
11630	NDMA Soil Microwave	SW-846 3546	1	11290SLD026	10/18/2011 06:55	Katheryne V Sponheimer	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11291162401B	10/18/2011 21:20	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-101211 Water
SSFL Area IV Collocated Soil Sampling
TB-101211

LLI Sample # WW 6435701
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 08:00

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6707 SDG#: DE267-07TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11287A20A	10/14/2011	12:01	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11287A20A	10/14/2011	12:01	Marie D John	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA3-SB-101211 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA3-SB-101211

LLI Sample # WW 6435702
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 14:00

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6708 SDG#: DE267-08EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/l		ng/l	ng/l	ng/l	
10962	N-Nitrosodimethylamine	62-75-9	2.69		0.534	1.07		1
	The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.							
	N-nitrosodimethylamine was detected in the method blank at a concentration of 1.14 ng/l. The blank value was not subtracted from the analytical result. This sample was re-extracted, and n-nitrosodimethylamine was again detected in the method blank and sample. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	19	U	19	57		1
04678	Benzoic acid	65-85-0	6	U	6	14		1
04678	Benzyl alcohol	100-51-6	5	U	5	14		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	2-butoxy-Ethanol	111-76-2	48	U	48	48		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	14		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	29		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	14		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB-SA3-SB-101211 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA3-SB-101211

LLI Sample # WW 6435702
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 14:00

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6708 SDG#: DE267-08EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	29		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	14		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	2-phenoxy-Ethanol	122-99-6	48	U	48	48		1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.011	U	0.011	0.055		1
10137	Acenaphthylene	208-96-8	0.011	U	0.011	0.055		1
10137	Anthracene	120-12-7	0.011	U	0.011	0.055		1
10137	Benzo(a)anthracene	56-55-3	0.011	U	0.011	0.055		1
10137	Benzo(a)pyrene	50-32-8	0.011	U	0.011	0.055		1
10137	Benzo(b)fluoranthene	205-99-2	0.011	U	0.011	0.055		1
10137	Benzo(g,h,i)perylene	191-24-2	0.011	U	0.011	0.055		1
10137	Benzo(k)fluoranthene	207-08-9	0.011	U	0.011	0.055		1
10137	Butylbenzylphthalate	85-68-7	0.055	U	0.055	1.1		1
10137	Di-n-butylphthalate	84-74-2	0.28	J	0.055	1.1		1
10137	Chrysene	218-01-9	0.011	U	0.011	0.055		1
10137	Dibenz(a,h)anthracene	53-70-3	0.011	U	0.011	0.055		1
10137	Diethylphthalate	84-66-2	0.14	J	0.055	1.1		1
10137	Dimethylphthalate	131-11-3	0.055	U	0.055	1.1		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.055	U	0.055	1.1		1
10137	Fluoranthene	206-44-0	0.011	U	0.011	0.055		1
10137	Fluorene	86-73-7	0.011	U	0.011	0.055		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.011	U	0.011	0.055		1
10137	1-Methylnaphthalene	90-12-0	0.011	U	0.011	0.055		1
10137	2-Methylnaphthalene	91-57-6	0.011	U	0.011	0.055		1
10137	Naphthalene	91-20-3	0.13		0.033	0.055		1
10137	N-Nitrosodimethylamine	62-75-9	0.011	U	0.011	0.055		1
10137	Di-n-octylphthalate	117-84-0	0.055	U	0.055	1.1		1
10137	Phenanthrene	85-01-8	0.033	U	0.033	0.055		1
10137	Pyrene	129-00-0	0.011	U	0.011	0.055		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		ug/l		ug/l	ug/l	ug/l	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB-SA3-SB-101211 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA3-SB-101211

LLI Sample # WW 6435702
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 14:00

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6708 SDG#: DE267-08EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/l		ug/l	ug/l	ug/l	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	1.7		0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
HPLC Organics	**SW-846 8315A**		ug/l		ug/l	ug/l	ug/l	
04144	20b Formaldehyde 8315A	50-00-0	10	U	10	50		1
Pesticides/PCBs	**SW-846 8082**		ug/l		ug/l	ug/l	ug/l	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.51		1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.51		1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.51		1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.51		1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.51		1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.51		1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.51		1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.51		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB-SA3-SB-101211 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA3-SB-101211

LLI Sample # WW 6435702
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 14:00

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6708 SDG#: DE267-08EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	PCB-1254	11097-69-1	0.10	U	0.10	0.51		1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.51		1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.51		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.51		1
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	20	U	20	200		1
08278	Ethylene glycol	107-21-1	20	U	20	200		1
08278	Propylene glycol	57-55-6	20	U	20	200		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.084	U	0.084	0.26		1
10319	o-Terphenyl	84-15-1	0.084	U	0.084	0.26		1
10319	p-Terphenyl	92-94-4	0.084	U	0.084	0.26		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.10	U	0.10	0.63		1
10365	EFH (C15-C20)	n.a.	0.10	U	0.10	0.63		1
10365	EFH (C21-C30)	n.a.	0.10	U	0.10	0.63		1
10365	EFH (C30 - C40)	n.a.	0.10	U	0.10	0.63		1
10365	EFH (C8-C11)	n.a.	0.10	U	0.10	0.63		1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0801	U	0.0801	0.200		1
08014	Boron	7440-42-8	0.0047	J	0.0022	0.0500		1
01750	Calcium	7440-70-2	0.0705	U	0.0705	0.200		1
01754	Iron	7439-89-6	0.0141	U	0.0141	0.200		1
01756	Lithium	7439-93-2	0.0076	U	0.0076	0.0200		1
01757	Magnesium	7439-95-4	0.0067	U	0.0067	0.100		1
07058	Manganese	7439-96-5	0.00044	U	0.00044	0.0050		1
10143	Phosphorus	7723-14-0	0.0047	U	0.0047	0.100		1
01762	Potassium	7440-09-7	0.0874	U	0.0874	0.500		1
01767	Sodium	7440-23-5	0.0647	U	0.0647	1.00		1
08068	Strontium	7440-24-6	0.00022	U	0.00022	0.0050		1
07069	Tin	7440-31-5	0.0043	U	0.0043	0.0200		1
07070	Titanium	7440-32-6	0.00046	U	0.00046	0.0100		1
10144	Zirconium	7440-67-7	0.0042	U	0.0042	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB-SA3-SB-101211 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA3-SB-101211

LLI Sample # WW 6435702
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 14:00

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6708 SDG#: DE267-08EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00042 U	0.00042	0.0010		1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00069 U	0.00069	0.0020		1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000080 U	0.000080	0.0010		1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00027 U	0.00027	0.0020		1
06042	Silver	7440-22-4	0.000098 U	0.000098	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00018 U	0.00018	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000026 U	0.000026	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050 U	0.050	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	The correlation coefficient of the calibration curve is below the method requirement of 0.999 with a result of 0.995. The sample was rerun outside of the 24 hour holding time on 10/14/2011. The result of the second trial is also 5.0 U ug/l.						
	SW-846 9012B		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
08255	16b Cyanide by 9012B	57-12-5	0.0050 U	0.0050	0.010		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	17b pH by 9040B	n.a.	5.5	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **EB-SA3-SB-101211 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA3-SB-101211

LLI Sample # WW 6435702
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 14:00

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6708 SDG#: DE267-08EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11286WAH026	10/17/2011 19:31	Matthew S Woods	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11290WAB026	10/18/2011 07:42	Brian K Graham	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11290WAJ026	10/21/2011 11:53	Joseph M Gambler	1
00813	BNA Water Extraction	SW-846 3510C	1	11290WAB026	10/17/2011 17:30	Nicholas W Shroyer	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11290WAJ026	10/18/2011 12:00	Olivia I Santiago	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11286WAH026	10/14/2011 03:10	David V Hershey Jr	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11287A20A	10/14/2011 12:23	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11287A20A	10/14/2011 12:23	Marie D John	1
10131	15b Energetics by 8330A	SW-846 8330A	1	112900016A	10/20/2011 07:27	James H Place	1
04144	20b Formaldehyde 8315A	SW-846 8315A	1	112860019A	10/14/2011 21:19	James H Place	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	112900011A	10/20/2011 14:51	Jessica L Miller	1
11117	PCB Waters Extraction	SW-846 3510C	1	112900011A	10/18/2011 02:30	Sherry L Morrow	1
01013	Formaldehyde Extraction	SW-846 8315A	1	112860019A	10/14/2011 08:35	Denise L Trimby	1
11122	Energetics Extraction	SW-846 8330	1	112900016A	10/18/2011 16:45	Kelli M Barto	1
06624	18b Alcohols by 8015B	SW-846 8015B	1	112870020A	10/14/2011 20:51	Elizabeth J Marin	1
08278	19b Glycols by 8015B	SW-846 8015B modified	1	112910030A	10/18/2011 21:07	Tyler O Griffin	1
10319	22b Terphenyls by 8015B	SW-846 8015B	1	112880013A	10/21/2011 13:08	Robert Brown	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112900022A	10/20/2011 18:51	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	112900022A	10/18/2011 08:45	Catherine R Wiker	1
10304	Terphenyls water prep	SW-846 3510C	1	112880013A	10/17/2011 10:00	Catherine R Wiker	1
01743	Aluminum	SW-846 6010B	1	112921848006	10/24/2011 02:09	Tara L Snyder	1
08014	Boron	SW-846 6010B	1	112921848006	10/21/2011 19:57	John P Hook	1
01750	Calcium	SW-846 6010B	1	112921848006	10/24/2011 02:09	Tara L Snyder	1
01754	Iron	SW-846 6010B	1	112921848006	10/24/2011 02:09	Tara L Snyder	1
01756	Lithium	SW-846 6010B	1	112921848006	10/21/2011 19:57	John P Hook	1
01757	Magnesium	SW-846 6010B	1	112921848006	10/24/2011 02:09	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	112921848006	10/21/2011 19:57	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	112921848006	10/21/2011 19:57	John P Hook	1
01762	Potassium	SW-846 6010B	1	112921848006	10/21/2011 19:57	John P Hook	1
01767	Sodium	SW-846 6010B	1	112921848006	10/21/2011 19:57	John P Hook	1
08068	Strontium	SW-846 6010B	1	112921848006	10/21/2011 19:57	John P Hook	1
07069	Tin	SW-846 6010B	1	112921848006	10/21/2011 19:57	John P Hook	1
07070	Titanium	SW-846 6010B	1	112921848006	10/21/2011 19:57	John P Hook	1
10144	Zirconium	SW-846 6010B	1	112921848006	10/21/2011 19:57	John P Hook	1
06024	Antimony	SW-846 6020	1	112926050003A	10/24/2011 09:45	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	112926050003A	10/24/2011 09:45	Choon Y Tian	1
06026	Barium	SW-846 6020	1	112926050003D	10/24/2011 09:45	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	112926050003A	10/24/2011 09:45	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	112926050003A	10/24/2011 09:45	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	112926050003A	10/24/2011 09:45	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	112926050003A	10/24/2011 09:45	Choon Y Tian	1
06033	Copper	SW-846 6020	1	112926050003A	10/24/2011 09:45	Choon Y Tian	1
06035	Lead	SW-846 6020	1	112926050003A	10/24/2011 09:45	Choon Y Tian	1

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Sample Description: **EB-SA3-SB-101211 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA3-SB-101211

LLI Sample # WW 6435702
LLI Group # 1271034
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 14:00

Submitted: 10/13/2011 09:00
Reported: 11/03/2011 16:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6708 SDG#: DE267-08EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06038	Molybdenum	SW-846 6020	1	112926050003C	10/24/2011 09:45	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	112926050003A	10/24/2011 09:45	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	112926050003B	10/24/2011 09:45	Choon Y Tian	1
06042	Silver	SW-846 6020	1	112926050003A	10/24/2011 09:45	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	112926050003A	10/24/2011 09:45	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	112926050003A	10/24/2011 09:45	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	112926050003A	10/24/2011 09:45	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	112925713004	10/20/2011 19:29	Nelli S Markaryan	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	112921848006	10/20/2011 09:39	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	112926050003	10/20/2011 09:36	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	112925713004	10/19/2011 14:43	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11286196901C	10/14/2011 00:08	Ashley M Adams	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11286196901C	10/14/2011 00:08	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11286281101A	10/13/2011 21:47	Elyse P Brunstetter	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11286281401A	10/13/2011 11:23	Elyse P Brunstetter	1
08255	16b Cyanide by 9012B	SW-846 9012B	1	11290117101B	10/17/2011 20:58	Joseph E McKenzie	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11290117101B	10/17/2011 09:45	Nancy J Shoop	1
00200	17b pH by 9040B	SW-846 9040B	1	11286020001A	10/13/2011 21:35	Luz M Groff	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11286WAH026	Sample number(s): 6435698-6435699,6435702									
N-Nitrosodimethylamine	1.14		0.500	1.00	ng/l	98	103	70-130	5	30
Batch number: 11287SLB026	Sample number(s): 6435690-6435692,6435696-6435697									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	100		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	89		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	95		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	96		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	92		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	99		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	120		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	90		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	90		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	86		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	97		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	111		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	93		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	95		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	99		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	95		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	96		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	112		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	88		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	88		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	92		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	89		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	96		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	93		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	95		72-119		
Batch number: 11290SLD026	Sample number(s): 6435690-6435692,6435696-6435697,6435700									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	102		70-130		
Batch number: 11290SLE026	Sample number(s): 6435690-6435692,6435696-6435697									
Acenaphthene	17	U	17.	170	ug/kg	98		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	105		75-122		
Aniline	170 U		170.	500	ug/kg	74		20-115		
Anthracene	17	U	17.	170	ug/kg	98		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	43		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	98		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	100		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	101		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	94		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	100		67-125		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzoic acid	170 U		170.	500	ug/kg	63		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	113*		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	97		73-114		
Butylbenzylphthalate	17	U	17.	170	ug/kg	92		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	94		79-112		
Carbazole	17	U	17.	170	ug/kg	95		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	112		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	47		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	105		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	107*		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	107		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	71		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	109		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	104		74-115		
Chrysene	17	U	17.	170	ug/kg	96		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	100		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	98		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	91		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	90		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	91		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	42		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	107		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	99		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	109		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	118		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	100		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	41*		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	22		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	109		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	106		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	103		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	96		75-117		
Fluoranthene	17	U	17.	170	ug/kg	102		78-116		
Fluorene	17	U	17.	170	ug/kg	101		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	100		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	93		65-117		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	92		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	90		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	97		64-119		
Isophorone	17	U	17.	170	ug/kg	109		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	96		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	98		69-109		
2-Methylphenol	33	U	33.	170	ug/kg	116*		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	113		66-117		
Naphthalene	17	U	17.	170	ug/kg	96		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	107		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	99		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	75		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	110		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	105		76-111		
4-Nitrophenol	170 U		170.	500	ug/kg	89		56-118		

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	109*		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	106		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	96		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	101		62-137		
Pentachlorophenol	170	U	170.	500	ug/kg	86		51-117		
Phenanthrene	17	U	17.	170	ug/kg	93		77-113		
Phenol	17	U	17.	170	ug/kg	112		58-112		
Pyrene	17	U	17.	170	ug/kg	95		75-115		
Tetralin	170	U	170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	95		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	104		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	102		78-111		
Batch number: 11290WAB026	Sample number(s): 6435702									
Aniline	1	U	1.	5	ug/l	77	83	38-116	8	30
Benzidine	20	U	20.	60	ug/l	62	62	34-117	0	30
Benzoic acid	6	U	6.	15	ug/l	24	21	10-69	11	30
Benzyl alcohol	5	U	5.	15	ug/l	79	91	66-97	14	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	101	103	75-115	2	30
2-butoxy-Ethanol	50	U	50.	50	ug/l					
Carbazole	1	U	1.	5	ug/l	99	103	75-120	4	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	103	109	70-123	6	30
4-Chloroaniline	1	U	1.	5	ug/l	67	70	24-128	5	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	104	109	74-124	5	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	101	108	77-108	7	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	98	106	62-127	8	30
2-Chloronaphthalene	2	U	2.	5	ug/l	73	81	54-132	11	30
2-Chlorophenol	1	U	1.	5	ug/l	94	100	71-114	7	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	101	106	77-114	5	30
Dibenzofuran	1	U	1.	5	ug/l	96	101	75-117	4	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	87	97	55-118	10	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	88	97	61-111	9	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	88	96	53-119	9	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	70	72	37-117	2	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	102	109	77-117	7	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	102	107	72-110	4	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	108	113	70-130	5	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	98	102	65-126	4	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	93	99	52-131	6	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	108	113	76-119	5	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	104	111	76-118	6	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	100	103	68-127	4	30
Hexachlorobenzene	1	U	1.	5	ug/l	105	107	75-119	2	30
Hexachlorobutadiene	1	U	1.	5	ug/l	96	104	57-124	8	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	84	90	36-118	6	30
Hexachloroethane	1	U	1.	5	ug/l	86	95	52-113	10	30
Isophorone	1	U	1.	5	ug/l	107	113	74-117	6	30
2-Methylphenol	1	U	1.	5	ug/l	86	94	58-110	9	30
4-Methylphenol	2	U	2.	5	ug/l	77	85	49-108	10	30
2-Nitroaniline	1	U	1.	5	ug/l	104	111	75-120	7	30
3-Nitroaniline	1	U	1.	5	ug/l	99	104	74-113	5	30
4-Nitroaniline	1	U	1.	5	ug/l	84	89	59-100	5	30
Nitrobenzene	1	U	1.	5	ug/l	108	114*	75-109	5	30
2-Nitrophenol	1	U	1.	5	ug/l	106	111	76-118	4	30
4-Nitrophenol	10	U	10.	30	ug/l	40	46	16-78	14	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	100	108	69-110	8	30

*- Outside of specification

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(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	94	97	67-136	3	30
Pentachlorophenol	3	U	3.	15	ug/l	107	112*	53-110	5	30
Phenol	1	U	1.	5	ug/l	38	49	21-67	25	30
2-phenoxy-Ethanol	50	U	50.	50	ug/l					
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	96	103	71-112	7	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	103	109*	79-107	6	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	103	110	76-120	7	30
Batch number: 11290WAJ026	Sample number(s): 6435702									
Acenaphthene	0.010	U	0.010	0.050	ug/l	98	97	74-109	2	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	97	95	70-110	2	30
Anthracene	0.010	U	0.010	0.050	ug/l	99	100	66-111	1	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	101	102	72-114	0	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	95	95	60-127	0	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	98	99	58-151	1	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	108	108	57-131	0	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	99	99	59-130	0	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	77	78	40-138	1	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	84	85	56-148	1	30
Chrysene	0.010	U	0.010	0.050	ug/l	105	105	76-116	0	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	109	110	55-134	0	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	91	92	37-148	1	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	86	86	40-119	0	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	102	102	57-154	0	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	104	106	75-116	2	30
Fluorene	0.010	U	0.010	0.050	ug/l	105	103	75-114	2	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	108	108	53-158	0	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	93	94	71-117	0	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	92	92	75-115	0	30
Naphthalene	0.030	U	0.030	0.050	ug/l	95	95	72-109	0	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	70	65	36-89	8	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	87	87	57-145	1	30
Phenanthrene	0.030	U	0.030	0.050	ug/l	98	99	76-111	1	30
Pyrene	0.010	U	0.010	0.050	ug/l	92	91	69-118	0	30
Batch number: 11287A20A	Sample number(s): 6435701-6435702									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	91	100	75-135	10	30
Batch number: 11290B16A	Sample number(s): 6435690-6435692									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	80		67-119		
Batch number: 11290B16B	Sample number(s): 6435696-6435697									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	80		67-119		
Batch number: 112880014A	Sample number(s): 6435690-6435692,6435694-6435697									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	108		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	106		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	85	85	54-134	0	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	84	85	54-134	0	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	109		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	100		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	106		80-120		
HMX	100 U		100.	300	ug/kg	91		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	103		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	86		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	101		78-128		

*- Outside of specification

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(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
3-Nitrotoluene	100 U		100.	120	ug/kg	107		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	100		80-120		
PETN	800 U		800.	2,400	ug/kg	101		80-120		
RDX	50	U	50.	120	ug/kg	101		75-131		
Tetryl	61	U	61.	120	ug/kg	97		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	103		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	107		80-120		
Batch number: 112900016A	Sample number(s): 6435702									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	99	93	80-120	6	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	94	88	80-120	7	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	80	83	50-122	4	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	80	83	50-122	4	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	100	96	72-117	4	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	93	89	80-120	4	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	97	80-120	3	30
HMX	0.65	U	0.65	2.0	ug/l	87	82	65-125	6	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	92	88	75-121	4	30
Nitroglycerin	5.2	U	5.2	15	ug/l	92	88	80-120	5	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	93	88	74-120	6	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	98	94	69-107	4	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	93	88	80-120	6	30
PETN	6.0	U	6.0	18	ug/l	96	96	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	88	82	70-125	7	30
Tetryl	0.40	U	0.40	0.60	ug/l	92	86	31-148	7	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	88	82	53-129	7	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	98	93	76-109	5	30
Batch number: 112860019A	Sample number(s): 6435702									
20b Formaldehyde 8315A	10	U	10.	50	ug/l	106	108	69-130	2	30
Batch number: 112910002A	Sample number(s): 6435690-6435692,6435694-6435697									
20a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	103		80-126		
Batch number: 112900011A	Sample number(s): 6435702									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	76	74	35-84	3	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	84	90	51-128	7	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	94	102	56-135	8	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 112900017A	Sample number(s): 6435690-6435692,6435694-6435697									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	72	72	36-106	0	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	88		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	106		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112870020A	Sample number(s): 6435702									
Ethanol	200 U		200.	1,000	ug/l	96		78-116		
Isopropanol	200 U		200.	1,000	ug/l	96		75-125		
Methanol	200 U		200.	1,000	ug/l	96		76-122		
Batch number: 112900025A	Sample number(s): 6435690-6435692,6435694-6435697									
Ethanol	100 U		100.	500	ug/kg	89		71-129		
Isopropanol	100 U		100.	500	ug/kg	87		75-125		
Methanol	100 U		100.	500	ug/kg	88		68-129		
Batch number: 112910030A	Sample number(s): 6435702									
Diethylene glycol	20	U	20.	200	mg/l	120		67-126		
Ethylene glycol	20	U	20.	200	mg/l	137*		78-136		
Propylene glycol	20	U	20.	200	mg/l	140*		65-132		
Batch number: 112930029A	Sample number(s): 6435690-6435692,6435696-6435697									
Diethylene glycol	5.0	U	5.0	10	mg/kg	100		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	102		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	98		67-131		
Batch number: 112870007A	Sample number(s): 6435690-6435692,6435694-6435697									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	102		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	107		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	100		69-109		
Batch number: 112880013A	Sample number(s): 6435702									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	98	102	61-108	4	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	102	104	75-125	2	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	98	102	63-110	4	20
Batch number: 112900022A	Sample number(s): 6435702									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	88	86	63-121	2	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	93	95	72-124	1	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	92	73	64-123	23	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	73	80	73-124	9	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	76	74	43-107	3	30
Batch number: 112910012A	Sample number(s): 6435690-6435692,6435694-6435697									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	90		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	93		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	76		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	85		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	82		49-107		
Batch number: 112871026001A	Sample number(s): 6435690-6435693,6435696-6435697									

*- Outside of specification

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(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Antimony	0.0740 U	0.0740	0.200	mg/kg	77		40-227		
Arsenic	0.0815 J	0.0800	0.400	mg/kg	103		83-111		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	102		84-112		
Cadmium	0.0440 U	0.0440	0.100	mg/kg	103		83-111		
Chromium	0.120 U	0.120	0.400	mg/kg	110		77-123		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	103		85-114		
Copper	0.0800 U	0.0800	0.400	mg/kg	102		81-110		
Lead	0.0143 J	0.0102	0.200	mg/kg	101		84-112		
Nickel	0.100 U	0.100	0.400	mg/kg	101		81-110		
Silver	0.0142 U	0.0142	0.100	mg/kg	103		83-112		
Thallium	0.0300 U	0.0300	0.100	mg/kg	103		82-112		
Vanadium	0.0333 J	0.0220	0.100	mg/kg	101		76-110		
Zinc	0.560 U	0.560	3.00	mg/kg	106		82-110		
Batch number: 112871026001B	Sample number(s): 6435690-6435693,6435696-6435697								
Selenium	0.0580 U	0.0580	0.400	mg/kg	96		79-110		
Batch number: 112871026001C	Sample number(s): 6435690-6435693,6435696-6435697								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	100		80-110		
Batch number: 112871026001D	Sample number(s): 6435690-6435693,6435696-6435697								
Barium	0.106 U	0.106	0.400	mg/kg	101		83-110		
Batch number: 112875708002	Sample number(s): 6435690-6435693,6435696-6435697								
Aluminum	6.05 U	6.05	20.0	mg/kg	84		40-127		
Boron	0.360 U	0.360	5.00	mg/kg	99		83-110		
Calcium	7.22 J	2.50	20.0	mg/kg	93		81-110		
Iron	4.39 J	2.61	20.0	mg/kg	90		47-129		
Lithium	0.62 U	0.62	2.0	mg/kg	97		80-120		
Magnesium	0.877 J	0.440	10.0	mg/kg	88		63-116		
Manganese	0.0440 J	0.0360	0.500	mg/kg	97		85-116		
Phosphorus	1.13 J	0.350	10.0	mg/kg	103		80-120		
Potassium	11.3 U	11.3	50.0	mg/kg	96		71-110		
Sodium	5.95 U	5.95	100	mg/kg	97		76-110		
Strontium	0.0380 J	0.0250	0.500	mg/kg	99		84-110		
Tin	1.43 J	0.320	10.0	mg/kg	101		86-120		
Zirconium	0.460 U	0.460	5.00	mg/kg	100		80-120		
Batch number: 112875711001	Sample number(s): 6435690-6435693,6435696-6435697								
Mercury	0.0069 U	0.0069	0.0978	mg/kg	97		83-119		
Batch number: 112921848006	Sample number(s): 6435702								
Aluminum	0.0801 U	0.0801	0.200	mg/l	100	99	90-112	0	20
Boron	0.0022 U	0.0022	0.0500	mg/l	93	89	89-110	5	20
Calcium	0.0705 U	0.0705	0.200	mg/l	97	97	90-110	0	20
Iron	0.0141 U	0.0141	0.200	mg/l	101	101	90-112	0	20
Lithium	0.0076 U	0.0076	0.0200	mg/l	98	97	90-110	1	20
Magnesium	0.0067 U	0.0067	0.100	mg/l	99	100	90-110	1	20
Manganese	0.00046 J	0.00044	0.0050	mg/l	99	95	90-110	4	20
Phosphorus	0.0047 U	0.0047	0.100	mg/l	99	98	90-110	1	20
Potassium	0.0874 U	0.0874	0.500	mg/l	101	97	85-115	3	20
Sodium	0.0647 U	0.0647	1.00	mg/l	100	97	87-114	3	20
Strontium	0.00022 U	0.00022	0.0050	mg/l	99	94	90-110	5	20
Tin	0.0043 U	0.0043	0.0200	mg/l	95	94	90-110	1	20
Titanium	0.00046 U	0.00046	0.0100	mg/l	101	95	90-113	6	20
Zirconium	0.0042 U	0.0042	0.0500	mg/l	102	99	90-110	3	20
Batch number: 112925713004	Sample number(s): 6435702								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Mercury	0.000026 U	0.00002 6	0.00020	mg/l	97	101	80-120	4	20
Batch number: 112926050003A	Sample number(s): 6435702								
Antimony	0.00042 U	0.00042	0.0010	mg/l	106	97	87-110	10	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	98	101	86-111	2	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	106	106	90-113	0	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	95	104	90-114	8	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	102	107	90-118	5	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	102	101	87-113	1	20
Copper	0.00038 U	0.00038	0.0020	mg/l	105	103	90-113	1	20
Lead	0.000080 U	0.00008 0	0.0010	mg/l	105	104	90-115	0	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	103	103	90-113	0	20
Silver	0.000098 U	0.00009 8	0.00050	mg/l	103	101	90-115	3	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	106	97	89-116	9	20
Vanadium	0.00018 U	0.00018	0.00050	mg/l	104	106	89-116	2	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	100	109	90-116	8	20
Batch number: 112926050003B	Sample number(s): 6435702								
Selenium	0.00027 U	0.00027	0.0020	mg/l	108	106	85-114	2	20
Batch number: 112926050003C	Sample number(s): 6435702								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	104	98	89-115	6	20
Batch number: 112926050003D	Sample number(s): 6435702								
Barium	0.00069 U	0.00069	0.0020	mg/l	99	98	88-113	1	20
Batch number: 112975708004	Sample number(s): 6435690-6435693,6435696-6435697								
Titanium	0.0710 U	0.0710	1.00	mg/kg	88		80-120		
Batch number: 11286196901C	Sample number(s): 6435702								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	96	94	90-110	2	20
11b Anions by 300.0 - Nitrate	0.050 U	0.050	0.10	mg/l	97	97	90-110	0	20
Batch number: 11286281101A	Sample number(s): 6435702								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	91	92	85-115	1	20
Batch number: 11286281401A	Sample number(s): 6435702								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	99	101	90-110	2	20
Batch number: 11290117101B	Sample number(s): 6435702								
16b Cyanide by 9012B	0.0050 U	0.0050	0.010	mg/l	103	102	90-110	1	20
Batch number: 11291243201A	Sample number(s): 6435690-6435691,6435693,6435696-6435697								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	81		80-120		
Batch number: 11292621202B	Sample number(s): 6435690-6435691,6435693,6435696-6435697								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	111		85-115		
Batch number: 11293102201A	Sample number(s): 6435690-6435691,6435693,6435696-6435697								
16a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	85		80-120		
Batch number: 11297495201B	Sample number(s): 6435690-6435691,6435693								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	102		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	103		90-110		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11299621201A	Sample number(s): 6435696-6435697									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	104		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	106		90-110		
Batch number: 11286020001A	Sample number(s): 6435702									
17b pH by 9040B						100	100	90-110	0	3
Batch number: 11299039402A	Sample number(s): 6435690,6435693,6435696-6435697									
17a pH by 9045C						100		95-105		
Batch number: 11291162401B	Sample number(s): 6435700									
Moisture Content by 160.3						100		80-120		
Batch number: 11298162401A	Sample number(s): 6435690-6435694,6435696-6435697									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11287SLB026	Sample number(s): 6435690-6435692,6435696-6435697 UNSPK: 6435690								
Acenaphthene	82	90	63-105	10	30				
Acenaphthylene	79	86	67-114	8	30				
Anthracene	89	94	73-115	6	30				
Benzo(a)anthracene	86	94	59-128	8	30				
Benzo(a)pyrene	87	92	58-142	6	30				
Benzo(b)fluoranthene	100	109	54-163	9	30				
Benzo(g,h,i)perylene	46	52	33-141	11	30				
Benzo(k)fluoranthene	90	96	57-153	6	30				
Butylbenzylphthalate	71	79	57-173	10	30				
Di-n-butylphthalate	84	90	65-148	7	30				
Chrysene	87	95	67-123	9	30				
Dibenz(a,h)anthracene	58	63	22-133	9	30				
Diethylphthalate	81	86	70-136	6	30				
Dimethylphthalate	88	100	74-118	13	30				
Bis(2-Ethylhexyl)phthalate	76	83	39-167	9	30				
Fluoranthene	116	121	51-149	4	30				
Fluorene	82	90	66-122	9	30				
Indeno(1,2,3-cd)pyrene	57	63	21-143	10	30				
1-Methylnaphthalene	72	83	72-123	13	30				
2-Methylnaphthalene	72	83	64-103	14	30				
Naphthalene	80	89	61-102	11	30				
N-Nitrosodimethylamine	81	91	48-113	11	30				
Di-n-octylphthalate	93	96	40-192	4	30				
Phenanthrene	84	91	62-122	8	30				
Pyrene	67	75	51-131	11	30				
Batch number: 11290SLD026	Sample number(s): 6435690-6435692,6435696-6435697,6435700 UNSPK: 6435690								
N-Nitrosodimethylamine	104	104	70-130	0	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11290SLE026	Sample number(s): 6435690-6435692,6435696-6435697 UNSPK: 6435690								
Acenaphthene	98	97	75-115	1	30				
Acenaphthylene	106	104	81-110	1	30				
Aniline	72	71	18-116	2	30				
Anthracene	101	97	75-115	4	30				
Benzidine	38	37	35-141	4	30				
Benzo(a)anthracene	100	97	65-122	3	30				
Benzo(a)pyrene	103	99	57-126	4	30				
Benzo(b)fluoranthene	108	100	59-125	8	30				
Benzo(g,h,i)perylene	110	104	59-127	5	30				
Benzo(k)fluoranthene	94	93	56-132	2	30				
Benzoic acid	0*	0*	10-173	0	30				
Benzyl alcohol	106	103	67-115	2	30				
4-Bromophenyl-phenylether	106	102	67-129	4	30				
Butylbenzylphthalate	99	95	73-134	4	30				
Di-n-butylphthalate	97	93	67-123	4	30				
Carbazole	96	93	64-120	3	30				
4-Chloro-3-methylphenol	110	109	62-122	1	30				
4-Chloroaniline	62	68	13-107	9	30				
bis(2-Chloroethoxy)methane	103	102	75-104	1	30				
bis(2-Chloroethyl)ether	100	96	60-116	4	30				
bis(2-Chloroisopropyl)ether	101	97	55-142	4	30				
2-Chloronaphthalene	81	79	50-141	3	30				
2-Chlorophenol	101	101	73-121	1	30				
4-Chlorophenyl-phenylether	103	102	80-109	2	30				
Chrysene	95	92	62-128	4	30				
Dibenz(a,h)anthracene	114	108	65-125	5	30				
Dibenzofuran	98	97	71-112	2	30				
1,2-Dichlorobenzene	86	85	66-108	1	30				
1,3-Dichlorobenzene	84	82	63-109	3	30				
1,4-Dichlorobenzene	85	83	58-108	3	30				
3,3'-Dichlorobenzidine	55	59	28-109	7	30				
2,4-Dichlorophenol	101	104	66-123	3	30				
Diethylphthalate	96	94	66-118	2	30				
2,4-Dimethylphenol	106	105	68-118	2	30				
3,5-Dimethylphenol	118	118	71-127	0	30				
Dimethylphthalate	98	95	64-118	2	30				
4,6-Dinitro-2-methylphenol	10*	12	11-126	14	30				
2,4-Dinitrophenol	0*	0*	20-143	0	30				
2,4-Dinitrotoluene	103	101	56-129	2	30				
2,6-Dinitrotoluene	103	102	69-123	1	30				
1,2-Diphenylhydrazine	109	105	71-129	3	30				
bis(2-Ethylhexyl)phthalate	102	100	63-122	2	30				
Fluoranthene	99	97	73-112	2	30				
Fluorene	102	100	63-121	1	30				
Hexachlorobenzene	108	104	77-114	4	30				
Hexachlorobutadiene	96	95	62-120	1	30				
Hexachlorocyclopentadiene	47	48	10-153	3	30				
Hexachloroethane	84	81	57-109	3	30				
Indeno(1,2,3-cd)pyrene	112	107	61-126	4	30				
Isophorone	108*	107*	73-102	1	30				
1-Methylnaphthalene	96	94	64-122	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Methylnaphthalene	98	97	76-114	1	30				
2-Methylphenol	108	106	75-111	2	30				
4-Methylphenol	107	104	59-123	2	30				
Naphthalene	96	96	72-116	0	30				
2-Nitroaniline	106	108	67-125	2	30				
3-Nitroaniline	97	96	59-122	1	30				
4-Nitroaniline	79	76	41-109	4	30				
Nitrobenzene	109	108	57-125	1	30				
2-Nitrophenol	89	104	56-127	16	30				
4-Nitrophenol	66	78	37-129	17	30				
N-Nitroso-di-n-propylamine	102	100	60-116	3	30				
N-Nitrosodimethylamine	101	101	47-116	0	30				
N-Nitrosodiphenylamine	101	96	71-122	5	30				
Di-n-octylphthalate	105	100	56-126	4	30				
Pentachlorophenol	24*	41	28-127	52*	30				
Phenanthrene	97	93	65-125	4	30				
Phenol	105	102	58-126	3	30				
Pyrene	99	95	74-126	3	30				
1,2,4-Trichlorobenzene	96	97	72-115	0	30				
2,4,5-Trichlorophenol	92	102	58-129	9	30				
2,4,6-Trichlorophenol	85	100	56-134	16	30				
Batch number: 11290B16A	Sample number(s): 6435690-6435692 UNSPK: 6435690								
9a TPH by EPA 8015B Gas C5-C12	73	65	39-118	7	30				
Batch number: 11290B16B	Sample number(s): 6435696-6435697 UNSPK: 6435690								
9a TPH by EPA 8015B Gas C5-C12	73	65	39-118	7	30				
Batch number: 112880014A	Sample number(s): 6435690-6435692,6435694-6435697 UNSPK: 6435690								
4-Amino-2,6-Dinitrotoluene	109	110	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	109	107	80-137	1	50				
1,3-Dinitrobenzene	112	111	38-166	1	50				
2,4-Dinitrotoluene	102	102	80-131	0	50				
2,6-Dinitrotoluene	107	105	80-127	1	50				
HMX	94	94	63-128	0	50				
Nitrobenzene	107	105	80-125	2	50				
Nitroglycerin	100	99	80-120	1	50				
2-Nitrotoluene	104	102	80-122	2	50				
3-Nitrotoluene	110	109	72-119	2	50				
4-Nitrotoluene	103	102	80-125	1	50				
PETN	109	108	80-121	1	50				
RDX	100	99	75-129	1	50				
Tetryl	93	92	55-174	1	50				
1,3,5-Trinitrobenzene	105	103	82-126	2	50				
2,4,6-Trinitrotoluene	109	108	82-130	1	50				
Batch number: 112910002A	Sample number(s): 6435690-6435692,6435694-6435697 UNSPK: 6435690								
20a Formaldehyde 8315A	96	99	80-120	3	50				
Batch number: 112900017A	Sample number(s): 6435690-6435692,6435694-6435697 UNSPK: 6435690								
PCB-1016	94	79	29-146	17	50				
PCB-1260	112	83	39-149	28	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 112870020A	Sample number(s): 6435702 UNSPK: P434238								
Ethanol	94	98	62-145	4	20				
Isopropanol	100	100	73-131	0	20				
Methanol	80	96	52-159	16	20				
Batch number: 112900025A	Sample number(s): 6435690-6435692,6435694-6435697 UNSPK: 6435690								
Ethanol	78	84	48-130	7	20				
Isopropanol	76	82	12-149	7	20				
Methanol	80	85	43-138	6	20				
Batch number: 112910030A	Sample number(s): 6435702 UNSPK: 6435702								
Diethylene glycol	120	125	83-130	4	20				
Ethylene glycol	137*	137*	89-125	0	20				
Propylene glycol	135*	135*	91-128	0	20				
Batch number: 112930029A	Sample number(s): 6435690-6435692,6435696-6435697 UNSPK: 6435690								
Diethylene glycol	5*	8*	59-109	42*	20				
Ethylene glycol	47*	45*	63-107	6	20				
Propylene glycol	65	62*	63-107	5	20				
Batch number: 112870007A	Sample number(s): 6435690-6435692,6435694-6435697 UNSPK: 6435690								
m-Terphenyl	93	95	75-125	1	20				
o-Terphenyl	107	107	75-125	0	20				
p-Terphenyl	85	90	75-125	6	20				
Batch number: 112910012A	Sample number(s): 6435690-6435692,6435694-6435697 UNSPK: 6435690								
EFH (C12-C14)	76	894*	49-123	169*	20				
EFH (C15-C20)	69	1343*	49-123	172*	20				
EFH (C21-C30)	132*	329*	49-123	63*	20				
EFH (C30 - C40)	165*	92	49-123	22*	20				
EFH (C8-C11)	60	129*	49-123	73*	20				
Batch number: 112871026001A	Sample number(s): 6435690-6435693,6435696-6435697 UNSPK: 6435690 BKG: 6435690								
Antimony	58*	42*	75-125	32*	20	0.0733 U	0.0718 U	0 (1)	20
Arsenic	64*	39*	75-125	7	20	6.27	5.09	21*	20
Beryllium	108	91	75-125	9	20	0.674	0.567	17	20
Cadmium	128*	114	75-125	11	20	0.124	0.129	4 (1)	20
Chromium	108	71*	75-125	13	20	17.4	16.8	3	20
Cobalt	128*	114	75-125	10	20	6.79	5.90	14	20
Copper	121	98	75-125	11	20	9.00	8.80	2	20
Lead	134*	29*	75-125	29*	20	8.07	6.36	24*	20
Nickel	118	80	75-125	17	20	12.0	9.74	21*	20
Silver	131*	121	75-125	8	20	0.0386 J	0.0181 J	73* (1)	20
Thallium	120	101	75-125	10	20	0.305	0.233	27* (1)	20
Vanadium	85	34*	75-125	12	20	34.5	27.6	22*	20
Zinc	5 (2)	-20 (2)	75-125	4	20	66.7	60.4	10	20
Batch number: 112871026001B	Sample number(s): 6435690-6435693,6435696-6435697 UNSPK: 6435690 BKG: 6435690								
Selenium	120	103	75-125	15	20	0.163 J	0.120 J	30* (1)	20
Batch number: 112871026001C	Sample number(s): 6435690-6435693,6435696-6435697 UNSPK: 6435690 BKG: 6435690								
Molybdenum	133*	117	75-125	13	20	0.284	0.304	7 (1)	20

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 112871026001D	Sample number(s): 6435690-6435693,6435696-6435697 UNSPK: 6435690 BKG: 6435690								
Barium	48 (2)	-93 (2)	75-125	16	20	83.3	66.7	22*	20
Batch number: 112875708002	Sample number(s): 6435690-6435693,6435696-6435697 UNSPK: 6435690 BKG: 6435690								
Aluminum	1904 (2)	866 (2)	75-125	16	20	9,610	10,400	8	20
Boron	93	92	84-115	0	20	3.43 J	3.61 J	5 (1)	20
Calcium	-110 (2)	57 (2)	75-125	13	20	5,040	4,800	5	20
Iron	2018 (2)	859 (2)	75-125	6	20	17,000	18,600	9	20
Lithium	101	98	82-114	1	20	24.1	26.2	8	20
Magnesium	259 (2)	223 (2)	75-125	2	20	3,340	3,560	6	20
Manganese	129 (2)	95 (2)	75-125	5	20	233	254	9	20
Phosphorus	84	258*	75-125	39*	20	283	280	1	20
Potassium	125	120	75-125	1	20	1,930	2,060	7	20
Sodium	98	94	75-125	2	20	87.3 J	89.7 J	3 (1)	20
Strontium	95	94	75-115	0	20	19.1	19.4	2	20
Tin	91	91	80-110	2	20	2.66 J	2.71 J	2 (1)	20
Zirconium	96	96	81-110	1	20	2.80 J	3.99 J	35* (1)	20
Batch number: 112875711001	Sample number(s): 6435690-6435693,6435696-6435697 UNSPK: 6435690 BKG: 6435690								
Mercury	102	100	65-135	2	20	0.0069 U	0.0067 U	0 (1)	20
Batch number: 112975708004	Sample number(s): 6435690-6435693,6435696-6435697 UNSPK: 6435690 BKG: 6435690								
Titanium	258 (2)	255 (2)	75-125	0	20	1,060	1,030	3	20
Batch number: 11286281401A	Sample number(s): 6435702 UNSPK: P435633 BKG: P435633								
3b Cr VI by EPA 7199	91		59-135			5.0 U	5.0 U	0 (1)	20
Batch number: 11291243201A	Sample number(s): 6435690-6435691,6435693,6435696-6435697 UNSPK: 6435690 BKG: 6435690								
3a Cr VI by EPA 7199	91		75-125			0.20 U	0.20 U	0 (1)	20
Batch number: 11292621202B	Sample number(s): 6435690-6435691,6435693,6435696-6435697 UNSPK: 6435690 BKG: 6435690								
7a Perchlorate EPA 314.0	112		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11293102201A	Sample number(s): 6435690-6435691,6435693,6435696-6435697 UNSPK: 6435690 BKG: 6435690								
16a Cyanide by 9012B	88		75-125			0.18 U	0.17 U	0 (1)	20
Batch number: 11297495201B	Sample number(s): 6435690-6435691,6435693 UNSPK: 6435690 BKG: 6435690								
11a Anions by 300.0 - Fluoride	76*		80-120			2.1	1.9	11 (1)	20
11a Anions by 300.0 - Nitrate	95		80-120			0.98 J	0.89 J	9 (1)	20
Batch number: 11299621201A	Sample number(s): 6435696-6435697 UNSPK: 6435696 BKG: 6435696								
11a Anions by 300.0 - Fluoride	38*		80-120			1.5	1.5	2 (1)	20
11a Anions by 300.0 - Nitrate	104		80-120			1.8	1.9	7 (1)	20
Batch number: 11299039402A	Sample number(s): 6435690,6435693,6435696-6435697 BKG: 6435690								
17a pH by 9045C						8.55	8.53	0	3

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11291162401B	Sample number(s): 6435700			BKG: P431141					
Moisture Content by 160.3						4.4	4.3	2	20
Batch number: 11298162401A	Sample number(s): 6435690-6435694,6435696-6435697					BKG: 6435690			
28a Moisture Content by 160.3						2.2	2.3	4 (1)	20
Moisture Content by 160.3						2.2	2.3	4 (1)	20
Moisture Content by 160.3						2.2	2.3	4 (1)	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 21b. NDMA in Water
Batch number: 11286WAH026

	N-Nitrosodimethylamine-d6
6435698	347*
6435699	190*
6435702	305*
Blank	153*
LCS	148
LCSD	160*
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11287SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6435690	95	83	66
6435691	103	89	67
6435692	106	88	66
6435696	93	82	84
6435697	96	84	85
Blank	97	89	87
LCS	99	87	86
MS	103	89	67
MSD	106	88	66
Limits:	40-130	45-130	45-135

Analysis Name: 21a NDMA by 1625C
Batch number: 11290SLD026

	N-Nitrosodimethylamine-d6
6435690	100
6435691	86

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Surrogate Quality Control

6435692	76
6435696	69
6435697	75
6435700	89
Blank	116
LCS	123
MS	86
MSD	76
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11290SLE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6435690	99	98	95	97	89	89
6435691	104	102	79	101	88	89
6435692	103	103	92	101	88	87
6435696	102	101	102	97	86	88
6435697	95	90	87	86	78	86
Blank	94	95	94	96	87	87
LCS	110	109	106	100	88	83
MS	104	102	79	101	88	89
MSD	103	103	92	101	88	87
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11290WAB026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6435702	59	36	113	103	93	93
Blank	55	33	111	100	91	91
LCS	56	34	106	97	86	85
LCSD	65	40	113	106	93	88
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11290WAJ026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6435702	103	92	86
Blank	95	87	84
LCS	109	97	86
LCSD	110	94	85
Limits:	40-130	45-130	45-135

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11287A20A

	Trifluorotoluene-F
6435701	88
6435702	91
Blank	87
LCS	115

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Surrogate Quality Control

LCSD 114

Limits: 63-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11290B16A

	Trifluorotoluene-F
6435690	94
6435691	96
6435692	92
Blank	84
LCS	92
MS	96
MSD	92

Limits: 61-122

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11290B16B

	Trifluorotoluene-F
6435696	80
6435697	93
Blank	94
LCS	92
MS	96
MSD	92

Limits: 61-122

Analysis Name: 20b Formaldehyde 8315A
Batch number: 112860019A

	Butyraldehyde
6435702	96
Blank	87
LCS	103
LCSD	83

Limits: 45-145

Analysis Name: 15a Energetics by 8330A
Batch number: 112880014A

	2-Nitro-m-xylene
6435690	125
6435691	116
6435692	113
6435694	117
6435695	122
6435696	127
6435697	124
Blank	118
LCS	112
LCSD	129
MS	116

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Surrogate Quality Control

MSD 113

Limits: 80-146

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 112900011A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6435702	95	107
Blank	94	78
LCS	90	90
LCSD	91	112
Limits:	30-150	45-120

Analysis Name: 15b Energetics by 8330A
Batch number: 112900016A

	2-Nitro-m-xylene
6435702	97
Blank	98
LCS	97
LCSD	90
Limits:	50-134

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112900017A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6435690	100	101
6435691	106	116
6435692	87	84
6435694	98	109
6435695	86	98
6435696	97	107
6435697	96	90
Blank	94	105
LCS	98	114
LCSD	102	115
MS	106	116
MSD	87	84
Limits:	53-139	45-120

Analysis Name: 20a Formaldehyde 8315A
Batch number: 112910002A

	Butyraldehyde
6435690	77
6435691	76
6435692	76
6435694	81
6435695	90
6435696	83
6435697	72
Blank	92

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Surrogate Quality Control

LCS	85
MS	76
MSD	76
Limits:	64-126

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112870007A

	n-Triacontane-d62
6435690	77
6435691	73
6435692	72
6435694	79
6435695	77
6435696	95
6435697	79
Blank	76
LCS	76
MS	73
MSD	72
Limits:	19-152

Analysis Name: 18b Alcohols by 8015B
Batch number: 112870020A

	Acetone
6435702	90
Blank	89
LCS	89
MS	99
MSD	102
Limits:	54-147

Analysis Name: 22b Terphenyls by 8015B
Batch number: 112880013A

	n-Triacontane-d62
6435702	73
Blank	73
LCS	67
LCSD	69
Limits:	17-138

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 112900022A

	Chlorobenzene	Orthoterphenyl
6435702	83	83
Blank	79	79
LCS	86	91
LCSD	84	92
Limits:	28-152	52-131

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Surrogate Quality Control

Analysis Name: 18a Alcohols by 8015B
Batch number: 112900025A

	Acetone
6435690	86
6435691	70
6435692	72
6435694	70
6435695	82
6435696	53
6435697	81
Blank	85
LCS	83
MS	70
MSD	72
Limits:	42-138

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112910012A

	Chlorobenzene	Orthoterphenyl
6435690	88	89
6435691	76	82
6435692	94	78
6435694	64	67
6435695	88	89
6435696	85	83
6435697	79	85
Blank	84	86
LCS	87	88
MS	76	82
MSD	94	78
Limits:	37-125	47-145

Analysis Name: 19b Glycols by 8015B
Batch number: 112910030A

	Tetramethylene glycol
6435702	117
Blank	126
LCS	134
MS	124
MSD	129
Limits:	29-157

Analysis Name: 19a Glycols by 8015B
Batch number: 112930029A

	Tetramethylene glycol
6435690	89
6435691	92
6435692	90
6435696	89

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271034
Reported: 11/03/11 at 04:30 PM

Surrogate Quality Control

6435697	91
Blank	98
LCS	98
MS	92
MSD	90
Limits:	29-137

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1271034 sample# 6435690-702

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-011-SA3-SB-4.5MS	10.12.11	1019	SOIL	NONE	6-Encores										X											MS/MSD
SL-011-SA3-SB-4.0-5.0MS	10.12.11	1025	SOIL	NONE	12-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
SL-096-SA7-SB-2.5	10.12.11	1145	SOIL	NONE	2-Encores										X											
SL-096-SA7-SB-2.0-3.0	10.12.11	1140	SOIL	NONE	1-SS Sleeve			X	X																	
SL-096-SA7-SB-2.0-3.0	10.12.11	1140	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X		
DUP01-SA3-QC-101211	10.12.11	1035	SOIL	NONE	2-Encores										X											
DUP01-SA3-QC-101211	10.12.11	1035	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
EB-SA3-SB-101211	10.12.11	1423	WATER	NONE	1-1 L Amber														X							HGL ASTM II WATER
TB-101211	10.12.11	0800	WATER	NONE	1-1 L Amber														X							
TB-101211	10.12.11	0800	SOIL	NONE	1-4 oz Jar														X							
TB-101211	10.12.11	0800	WATER	NONE	2-40 mL Vials										X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/12/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	10-13-11 900	8767 9857 5121,5512,5110	

acct#13013 Gp#1271034 sample#6435690-702

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/SW7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
EB-SA3-SB-101211	10.12.11	1400	WATER	NONE	10-1 liter ambers			X	X	X						X			X	X		X			X	EB collected for DPT crew
EB-SA3-SB-101211	10.12.11	1400	WATER	NONE	1-500 mL poly		X				X	X	X													
EB-SA3-SB-101211	10.12.11	1400	WATER	HNO3	1-500 mL poly	X																				
EB-SA3-SB-101211	10.12.11	1400	WATER	NaOH	1-500 mL poly																X					
EB-SA3-SB-101211	10.12.11	1400	WATER	NONE	1-250 mL glass													X								
EB-SA3-SB-101211	10.12.11	1400	WATER	HCL	11-40 mL vials										X									X		
EB-SA3-SB-101211	10.12.11	1400	WATER	NONE	4-40 mL vials												X						X			

Relinquished by: (Signature) — **Date/Time** 10/12/2011 / 1630 — **Received for Laboratory by: (Signature)**

Laboratory: Lancaster Laboratories, Inc.

Received by: (Signature) — **Date/Time** 10-13-11 900 — **Airbill No.(s)** 8767 9857 5121,5512,5110

Nicole Maljovec

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Thursday, October 13, 2011 2:05 PM
To: Nicole Maljovec
Subject: RE: Bottles and such

I think I put an incorrect label on all of our EBs for yesterday. The COC is correct, they should be called EB-SA3-SB-101211. I think I labeled them with SA7 instead.

Pls let me know if there's a problem with these ! Thanks

Pamela Hartman
CDM
523 W 6th St #400
Los Angeles, CA 90014
Cell 714-900-0916
Direct 818-466-8007

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Thursday, October 13, 2011 10:23 AM
To: Hartman, Pamela
Subject: RE: Bottles and such

I was thinking about that. I'll put in an order for 10 Water NDMA TBs and 10 Soil NDMA TBs right now. It's takes about 4 days to get the bottles to you, so you should have them by 10/19.

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Thursday, October 13, 2011 1:18 PM
To: Nicole Maljovec
Subject: Bottles and such

Hi Nicole

Hope your week has been going well. I would like to put in an order for next week. Could we please have the following:

200 16 oz Jars
Extra round foam discs for packing between jars and bottles

Will we be receiving double soil and water trip blanks next week to cover our onsite sampling and the remote sampling for the week of Oct.
24th?

Thanks!

Pam

Pamela Hartman
CDM
523 W 6th St #400
Los Angeles, CA 90014
Cell 714-900-0916
Direct 818-466-8007

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 30, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/13/2011
Group Number: 1271038
SDG: DX149
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-011-SA3-SB-4.0-5.0 Soil	6435711
SL-011-SA3-SB-4.0-5.0MS Soil	6435712
SL-011-SA3-SB-4.0-5.0MSD Soil	6435713
SL-096-SA7-SB-2.0-3.0 Soil	6435714
DUP01-SA3-QC-101211 Soil	6435715
EB-SA3-SB-101211 Water	6435716

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Dorothy M. Love

Dorothy M. Love
Group Leader

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-011-SA3-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435711
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4902 SDG#: DX149-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-011-SA3-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435711
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4902 SDG#: DX149-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0475	U	0.0475	1.01	1
11031	12378-PeCDD	40321-76-4	0.0407	U	0.0407	5.07	1
11031	123478-HxCDD	39227-28-6	0.0260	U	0.0260	5.07	1
11031	123678-HxCDD	57653-85-7	0.106	JQ	0.0268	5.07	1
11031	123789-HxCDD	19408-74-3	0.143	JB	0.0273	5.07	1
11031	1234678-HpCDD	35822-46-9	0.940	JB	0.0453	5.07	1
11031	OCDD	3268-87-9	5.84	JB	0.0394	10.1	1
11031	2378-TCDF	51207-31-9	0.0390	U	0.0390	1.01	1
11031	12378-PeCDF	57117-41-6	0.0648	JBQ	0.0269	5.07	1
11031	23478-PeCDF	57117-31-4	0.288	JB	0.0263	5.07	1
11031	123478-HxCDF	70648-26-9	0.247	JBQ	0.0262	5.07	1
11031	123678-HxCDF	57117-44-9	0.0517	JB	0.0245	5.07	1
11031	123789-HxCDF	72918-21-9	0.0282	U	0.0282	5.07	1
11031	234678-HxCDF	60851-34-5	0.0969	JBQ	0.0222	5.07	1
11031	1234678-HpCDF	67562-39-4	0.515	JB	0.0206	5.07	1
11031	1234789-HpCDF	55673-89-7	0.0805	JBQ	0.0292	5.07	1
11031	OCDF	39001-02-0	0.637	JBQ	0.0407	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	98	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	81	26 - 138
13C12-OCDF	85	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-011-SA3-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435711
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4902 SDG#: DX149-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-011-SA3-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435711
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4902 SDG#: DX149-02BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11294002	10/24/2011 17:37	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11294002	10/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-011-SA3-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435712
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4902 SDG#: DX149-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-011-SA3-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435712
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4902 SDG#: DX149-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.9		0.0612	1.00	1
11031	12378-PeCDD	40321-76-4	105	B	0.0565	5.01	1
11031	123478-HxCDD	39227-28-6	98.4	B	0.0589	5.01	1
11031	123678-HxCDD	57653-85-7	93.6		0.0585	5.01	1
11031	123789-HxCDD	19408-74-3	100	B	0.0557	5.01	1
11031	1234678-HpCDD	35822-46-9	98.8	B	0.0725	5.01	1
11031	OCDD	3268-87-9	198	B	0.0661	10.0	1
11031	2378-TCDF	51207-31-9	19.7		0.0489	1.00	1
11031	12378-PeCDF	57117-41-6	101	B	0.0390	5.01	1
11031	23478-PeCDF	57117-31-4	96.0	B	0.0351	5.01	1
11031	123478-HxCDF	70648-26-9	101	B	0.0953	5.01	1
11031	123678-HxCDF	57117-44-9	98.7	B	0.0838	5.01	1
11031	123789-HxCDF	72918-21-9	99.8	B	0.0654	5.01	1
11031	234678-HxCDF	60851-34-5	95.0	B	0.0564	5.01	1
11031	1234678-HpCDF	67562-39-4	91.0	B	0.0676	5.01	1
11031	1234789-HpCDF	55673-89-7	96.5	B	0.0799	5.01	1
11031	OCDF	39001-02-0	196	B	0.0829	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	95	23 - 140
13C12-OCDD	102	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	51	26 - 152
13C12-123678-HxCDF	59	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	83	26 - 138
13C12-OCDF	88	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-011-SA3-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435712
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4902 SDG#: DX149-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-011-SA3-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435712
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4902 SDG#: DX149-02MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11294002	10/24/2011 18:34	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11294002	10/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-011-SA3-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435713
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4902 SDG#: DX149-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-011-SA3-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435713
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4902 SDG#: DX149-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.3		0.0699	1.01	1
11031	12378-PeCDD	40321-76-4	105	B	0.0629	5.07	1
11031	123478-HxCDD	39227-28-6	99.0	B	0.0538	5.07	1
11031	123678-HxCDD	57653-85-7	96.8		0.0545	5.07	1
11031	123789-HxCDD	19408-74-3	103	B	0.0521	5.07	1
11031	1234678-HpCDD	35822-46-9	101	B	0.0719	5.07	1
11031	OCDD	3268-87-9	199	B	0.0753	10.1	1
11031	2378-TCDF	51207-31-9	19.6		0.0595	1.01	1
11031	12378-PeCDF	57117-41-6	103	B	0.0421	5.07	1
11031	23478-PeCDF	57117-31-4	94.4	B	0.0376	5.07	1
11031	123478-HxCDF	70648-26-9	98.6	B	0.100	5.07	1
11031	123678-HxCDF	57117-44-9	99.1	B	0.0888	5.07	1
11031	123789-HxCDF	72918-21-9	99.7	B	0.0642	5.07	1
11031	234678-HxCDF	60851-34-5	96.5	B	0.0557	5.07	1
11031	1234678-HpCDF	67562-39-4	91.6	B	0.0789	5.07	1
11031	1234789-HpCDF	55673-89-7	97.4	B	0.0807	5.07	1
11031	OCDF	39001-02-0	194	B	0.0662	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	103	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	50	26 - 152
13C12-123678-HxCDF	54	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	83	26 - 138
13C12-OCDF	92	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-011-SA3-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435713
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

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Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4902 SDG#: DX149-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-011-SA3-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-011-SA3-SB-4.0-5.0

LLI Sample # SW 6435713
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:25

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4902 SDG#: DX149-02MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11294002	10/24/2011 19:30	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11294002	10/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-096-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA7-SB-2.0-3.0

LLI Sample # SW 6435714
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 11:40

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4903 SDG#: DX149-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-096-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA7-SB-2.0-3.0

LLI Sample # SW 6435714
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 11:40

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4903 SDG#: DX149-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0540	JQ	0.0499	0.997	1
11031	12378-PeCDD	40321-76-4	0.162	JB	0.0452	4.99	1
11031	123478-HxCDD	39227-28-6	0.184	JBQ	0.0419	4.99	1
11031	123678-HxCDD	57653-85-7	0.468	JQ	0.0425	4.99	1
11031	123789-HxCDD	19408-74-3	0.396	JB	0.0419	4.99	1
11031	1234678-HpCDD	35822-46-9	6.84	B	0.0581	4.99	1
11031	OCDD	3268-87-9	101	B	0.0596	9.97	1
11031	2378-TCDF	51207-31-9	0.0429	U	0.0429	0.997	1
11031	12378-PeCDF	57117-41-6	0.135	JBQ	0.0250	4.99	1
11031	23478-PeCDF	57117-31-4	0.219	JBQ	0.0235	4.99	1
11031	123478-HxCDF	70648-26-9	0.0644	JB	0.0333	4.99	1
11031	123678-HxCDF	57117-44-9	0.143	JB	0.0289	4.99	1
11031	123789-HxCDF	72918-21-9	0.251	JB	0.0299	4.99	1
11031	234678-HxCDF	60851-34-5	0.163	JBQ	0.0250	4.99	1
11031	1234678-HpCDF	67562-39-4	1.07	JB	0.0240	4.99	1
11031	1234789-HpCDF	55673-89-7	0.152	JBQ	0.0340	4.99	1
11031	OCDF	39001-02-0	2.53	JB	0.0419	9.97	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	100	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	87	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-096-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA7-SB-2.0-3.0

LLI Sample # SW 6435714
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 11:40

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4903 SDG#: DX149-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-096-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-096-SA7-SB-2.0-3.0

LLI Sample # SW 6435714
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 11:40

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4903 SDG#: DX149-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11294002	10/24/2011 20:27	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11294002	10/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

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Analysis Report

Sample Description: **DUP01-SA3-QC-101211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA3-QC-101211

LLI Sample # SW 6435715
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:35

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4904 SDG#: DX149-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP01-SA3-QC-101211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA3-QC-101211

LLI Sample # SW 6435715
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:35

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4904 SDG#: DX149-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0428	U	0.0428	1.01	1
11031	12378-PeCDD	40321-76-4	0.0790	JBQ	0.0455	5.05	1
11031	123478-HxCDD	39227-28-6	0.0523	JBQ	0.0329	5.05	1
11031	123678-HxCDD	57653-85-7	0.161	J	0.0351	5.05	1
11031	123789-HxCDD	19408-74-3	0.126	JB	0.0356	5.05	1
11031	1234678-HpCDD	35822-46-9	1.37	JB	0.0434	5.05	1
11031	OCDD	3268-87-9	11.1	B	0.0418	10.1	1
11031	2378-TCDF	51207-31-9	0.0730	J	0.0502	1.01	1
11031	12378-PeCDF	57117-41-6	0.0458	JB	0.0371	5.05	1
11031	23478-PeCDF	57117-31-4	0.572	JB	0.0342	5.05	1
11031	123478-HxCDF	70648-26-9	0.431	JB	0.0380	5.05	1
11031	123678-HxCDF	57117-44-9	0.151	JB	0.0355	5.05	1
11031	123789-HxCDF	72918-21-9	0.0620	JBQ	0.0390	5.05	1
11031	234678-HxCDF	60851-34-5	0.187	JB	0.0324	5.05	1
11031	1234678-HpCDF	67562-39-4	0.551	JB	0.0200	5.05	1
11031	1234789-HpCDF	55673-89-7	0.103	JBQ	0.0260	5.05	1
11031	OCDF	39001-02-0	1.02	JB	0.0356	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	95	32 - 141
13C12-123678-HxCDD	96	28 - 130
13C12-123789-HxCDD	92	28 - 130
13C12-1234678-HpCDD	96	23 - 140
13C12-OCDD	103	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	91	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	88	26 - 138
13C12-OCDF	94	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP01-SA3-QC-101211 Soil
SSFL Area IV Collocated Soil Sampling
DUP01-SA3-QC-101211

LLI Sample # SW 6435715
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:35

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4904 SDG#: DX149-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP01-SA3-QC-101211 Soil**
SSFL Area IV Collocated Soil Sampling
DUP01-SA3-QC-101211

LLI Sample # SW 6435715
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 10:35

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4904 SDG#: DX149-04FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11294002	10/24/2011 21:23	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11294002	10/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401A	10/25/2011 18:57	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA3-SB-101211 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA3-SB-101211

LLI Sample # WW 6435716
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 14:00

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4905 SDG#: DX149-05EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.436	JQ	0.376	2.03	1
10915	12378-PeCDD	40321-76-4	0.499	JBQ	0.325	10.2	1
10915	123478-HxCDD	39227-28-6	0.305	JQ	0.233	10.2	1
10915	123678-HxCDD	57653-85-7	0.290	JQ	0.243	10.2	1
10915	123789-HxCDD	19408-74-3	0.265	JBQ	0.221	10.2	1
10915	1234678-HpCDD	35822-46-9	3.15	JBQ	0.296	10.2	1
10915	OCDD	3268-87-9	8.35	JB	0.234	20.3	1
10915	2378-TCDF	51207-31-9	0.279	U	0.279	2.03	1
10915	12378-PeCDF	57117-41-6	0.248	JBQ	0.166	10.2	1
10915	23478-PeCDF	57117-31-4	0.485	JB	0.152	10.2	1
10915	123478-HxCDF	70648-26-9	0.319	JBQ	0.150	10.2	1
10915	123678-HxCDF	57117-44-9	0.337	JBQ	0.149	10.2	1
10915	123789-HxCDF	72918-21-9	0.243	JBQ	0.158	10.2	1
10915	234678-HxCDF	60851-34-5	0.426	JBQ	0.139	10.2	1
10915	1234678-HpCDF	67562-39-4	1.86	JB	0.127	10.2	1
10915	1234789-HpCDF	55673-89-7	0.238	JBQ	0.143	10.2	1
10915	OCDF	39001-02-0	1.46	JB	0.285	20.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	83	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA3-SB-101211 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA3-SB-101211

LLI Sample # WW 6435716
LLI Group # 1271038
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/12/2011 14:00

Submitted: 10/13/2011 09:00
Reported: 10/30/2011 16:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4905 SDG#: DX149-05EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11292001	10/21/2011 19:21	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11292001	10/19/2011 06:40	Ginelle L Haines	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271038
Reported: 10/30/11 at 04:18 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11298162401A	Sample number(s): 6435711-6435715								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11292001	Sample number(s): 6435716								
2378-TCDD	0.360 U	0.360	2.00	pg/l	103		67-158		
12378-PeCDD	0.541 J	0.280	10.0	pg/l	100		70-142		
123478-HxCDD	0.226 U	0.226	10.0	pg/l	97		70-164		
123678-HxCDD	0.230 U	0.230	10.0	pg/l	94		76-134		
123789-HxCDD	0.623 J	0.222	10.0	pg/l	100		64-162		
1234678-HpCDD	2.75 J	0.205	10.0	pg/l	99		70-140		
OCDD	5.09 J	0.237	20.0	pg/l	98		78-144		
2378-TCDF	0.242 U	0.242	2.00	pg/l	90		75-158		
12378-PeCDF	0.414 J	0.162	10.0	pg/l	100		80-134		
23478-PeCDF	0.934 J	0.145	10.0	pg/l	90		68-160		
123478-HxCDF	0.536 J	0.145	10.0	pg/l	98		72-134		
123678-HxCDF	0.592 J	0.145	10.0	pg/l	97		84-130		
123789-HxCDF	0.484 J	0.164	10.0	pg/l	97		78-130		
234678-HxCDF	0.606 J	0.139	10.0	pg/l	94		70-156		
1234678-HpCDF	2.04 J	0.125	10.0	pg/l	90		82-122		
1234789-HpCDF	0.351 J	0.138	10.0	pg/l	96		78-138		
OCDF	1.52 J	0.243	20.0	pg/l	98		63-170		
Batch number: 11294002	Sample number(s): 6435711-6435715								
2378-TCDD	0.0609 U	0.0609	1.00	ng/kg	107		67-158		
12378-PeCDD	0.0460 J	0.0441	5.00	ng/kg	105		70-142		
123478-HxCDD	0.0460 J	0.0278	5.00	ng/kg	100		70-164		
123678-HxCDD	0.0276 U	0.0276	5.00	ng/kg	94		76-134		
123789-HxCDD	0.0516 J	0.0279	5.00	ng/kg	102		64-162		
1234678-HpCDD	0.267 J	0.0317	5.00	ng/kg	100		70-140		
OCDD	0.461 J	0.0245	10.0	ng/kg	95		78-144		
2378-TCDF	0.0429 U	0.0429	1.00	ng/kg	97		75-158		
12378-PeCDF	0.0382 J	0.0220	5.00	ng/kg	102		80-134		
23478-PeCDF	0.0374 J	0.0203	5.00	ng/kg	96		68-160		
123478-HxCDF	0.0843 J	0.0241	5.00	ng/kg	97		72-134		
123678-HxCDF	0.0224 J	0.0214	5.00	ng/kg	98		84-130		
123789-HxCDF	0.0575 J	0.0180	5.00	ng/kg	98		78-130		
234678-HxCDF	0.0541 J	0.0162	5.00	ng/kg	96		70-156		
1234678-HpCDF	0.154 J	0.0152	5.00	ng/kg	92		82-122		
1234789-HpCDF	0.0824 J	0.0190	5.00	ng/kg	96		78-138		
OCDF	0.172 J	0.0394	10.0	ng/kg	97		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271038
Reported: 10/30/11 at 04:18 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11298162401A	Sample number(s): 6435711-6435715					BKG: P435690			
Moisture Content by 160.3						2.2	2.3	4 (1)	20
Batch number: 11294002	Sample number(s): 6435711-6435715 UNSPK: 6435711								
2378-TCDD	109	105	67-158	3	25				
12378-PeCDD	105	104	70-142	0	25				
123478-HxCDD	98	98	70-164	1	25				
123678-HxCDD	93	95	76-134	3	25				
123789-HxCDD	100	102	64-162	3	25				
1234678-HpCDD	98	99	70-140	3	25				
OCDD	96	95	78-144	1	25				
2378-TCDF	98	97	75-158	0	25				
12378-PeCDF	101	102	80-134	2	25				
23478-PeCDF	96	93	68-160	2	25				
123478-HxCDF	100	97	72-134	2	25				
123678-HxCDF	98	98	84-130	0	25				
123789-HxCDF	100	98	78-130	0	25				
234678-HxCDF	95	95	70-156	2	25				
1234678-HpCDF	90	90	82-122	1	25				
1234789-HpCDF	96	96	78-138	1	25				
OCDF	97	95	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11292001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6435716	74	75	69	70	72	75
Blank	66	73	67	67	70	72
OPR	71	69	68	69	70	79
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6435716	75	80	83	74	76	76
Blank	75	82	89	71	73	75
OPR	74	76	77	69	72	75
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271038
Reported: 10/30/11 at 04:18 PM

Surrogate Quality Control

6435716	77	83	85	75	73
Blank	74	83	92	72	71
OPR	74	79	81	72	68
Limits:	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11294002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6435711	73	79	68	77	81	77
6435712	76	80	51	59	84	85
6435713	72	79	50	54	81	84
6435714	73	77	63	69	77	78
6435715	80	82	73	80	91	87
Blank	86	88	61	70	88	96
MS	76	80	51	59	84	85
MSD	72	79	50	54	81	84
OPR	74	77	60	69	78	83
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6435711	92	81	85	80	89	89
6435712	77	83	88	81	90	89
6435713	72	83	92	79	83	84
6435714	88	79	87	78	83	84
6435715	93	88	94	81	95	96
Blank	92	93	100	92	92	97
MS	77	83	88	81	90	89
MSD	72	83	92	79	83	84
OPR	88	82	87	81	86	87
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6435711	86	91	98	73	82
6435712	89	95	102	78	84
6435713	85	92	103	72	79
6435714	83	90	100	73	80
6435715	92	96	103	82	85
Blank	96	108	118	82	92
MS	89	95	102	78	84
MSD	85	92	103	72	79
OPR	86	95	103	73	81
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1271038 Sample# 6435711-16

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-011-SA3-SB-4.5MS	10.12.11	1019	SOIL	NONE	6-Encores										X											
SL-011-SA3-SB-4.0-5.0MS	10.12.11	1025	SOIL	NONE	12-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		MS/MSD
SL-096-SA7-SB-2.5	10.12.11	1145	SOIL	NONE	2-Encores										X											
SL-096-SA7-SB-2.0-3.0	10.12.11	1140	SOIL	NONE	1-SS Sleeve			X	X																	
SL-096-SA7-SB-2.0-3.0	10.12.11	1140	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X		
DUP01-SA3-QC-101211	10.12.11	1035	SOIL	NONE	2-Encores										X											
DUP01-SA3-QC-101211	10.12.11	1035	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X		
EB-SA3-SB-101211	10.12.11	1423	WATER	NONE	1-1 L Amber														X							HGL ASTM II WATER
TB-101211	10.12.11	0800	WATER	NONE	1-1 L Amber														X							
TB-101211	10.12.11	0800	SOIL	NONE	1-4 oz Jar														X							
TB-101211	10.12.11	0800	WATER	NONE	2-40 mL Vials										X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/12/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	10-13-11 900	8767 9857 5121,5512,5110	

acct# 13013 Gp# 1271038 sample# 6435711-16

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
EB-SA3-SB-101211	10.12.11	1400	WATER	NONE	10-1 liter ambers			X	X	X						X			X	X		X			X	EB collected for DPT crew
EB-SA3-SB-101211	10.12.11	1400	WATER	NONE	1-500 mL poly		X				X	X	X													
EB-SA3-SB-101211	10.12.11	1400	WATER	HNO3	1-500 mL poly	X																				
EB-SA3-SB-101211	10.12.11	1400	WATER	NaOH	1-500 mL poly																X					
EB-SA3-SB-101211	10.12.11	1400	WATER	NONE	1-250 mL glass													X								
EB-SA3-SB-101211	10.12.11	1400	WATER	HCL	11-40 mL vials										X											
EB-SA3-SB-101211	10.12.11	1400	WATER	NONE	4-40 mL vials												X						X			

Relinquished by: (*Signature*) — Date/Time: 10/12/2011 / 1630 — Received for Laboratory by: (*Signature*)

Received by: (*Signature*) Brandy Bailey — Date/Time: 10-13-11 9a — Airbill No.(s): 8767 9857 5121,5512,5110

Laboratory: Lancaster Laboratories, Inc.

Nicole Maljovec

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Thursday, October 13, 2011 2:05 PM
To: Nicole Maljovec
Subject: RE: Bottles and such

I think I put an incorrect label on all of our EBs for yesterday. The COC is correct, they should be called EB-SA3-SB-101211. I think I labeled them with SA7 instead.

Pls let me know if there's a problem with these ! Thanks

Pamela Hartman
CDM
523 W 6th St #400
Los Angeles, CA 90014
Cell 714-900-0916
Direct 818-466-8007

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Thursday, October 13, 2011 10:23 AM
To: Hartman, Pamela
Subject: RE: Bottles and such

I was thinking about that. I'll put in an order for 10 Water NDMA TBs and 10 Soil NDMA TBs right now. It's takes about 4 days to get the bottles to you, so you should have them by 10/19.

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Thursday, October 13, 2011 1:18 PM
To: Nicole Maljovec
Subject: Bottles and such

Hi Nicole

Hope your week has been going well. I would like to put in an order for next week. Could we please have the following:

200 16 oz Jars
Extra round foam discs for packing between jars and bottles

Will we be receiving double soil and water trip blanks next week to cover our onsite sampling and the remote sampling for the week of Oct.
24th?

Thanks!

Pam

Pamela Hartman
CDM
523 W 6th St #400
Los Angeles, CA 90014
Cell 714-900-0916
Direct 818-466-8007

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 18, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/14/2011
Group Number: 1271284
SDG: DE268
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-005-SA3-SB-4.0-5.0 Soil	6437193
SL-005-SA3-SB-7.5-8.5 Soil	6437194
SL-089-SA7-SB-3.5-4.5 Soil	6437195
SL-089-SA7-SB-3.5-4.5MS Soil	6437196
SL-089-SA7-SB-3.5-4.5MSD Soil	6437197
SL-089-SA7-SB-3.5-4.5DUP Soil	6437198
SL-089-SA7-SB-3.5-4.5RL MS Soil	6437199
SL-089-SA7-SB-3.5-4.5RL LCS Soil	6437200
DUP09-SA7-QC-101311 Soil	6437201
EB-SA7-SB-101311 Water	6437202
TB-101311 Water	6437203
TB-101311 Sand	6437204
TB-101311 Water	6437205
EB-SA7-SB-101311 Water	6437206

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-005-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-4.0-5.0

LLI Sample # SW 6437193
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:09

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6801 SDG#: DE268-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.1	U	18.1	36.3		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-005-SA3-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-4.0-5.0

LLI Sample # SW 6437193
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:09

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6801 SDG#: DE268-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.0	J	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.3	J	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.4		0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	J	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.84	J	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	1.9		0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.2	J	6.6	20		1
10138	Fluoranthene	206-44-0	3.9		0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	1.8	J	0.73	1.8		1
10138	Pyrene	129-00-0	2.7		0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	0.9		21.59
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	86	U	86	260	10000000	1

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Sample Description: SL-005-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-4.0-5.0

LLI Sample # SW 6437193
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:09

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6801 SDG#: DE268-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	86	U	86	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	860	U	860	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	86	U	86	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	86	U	86	130	10000000	1
10132	PETN	78-11-5	860	U	860	2,600	10000000	1
10132	RDX	121-82-4	54	U	54	130	10000000	1
10132	Tetryl	479-45-8	66	U	66	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	660	U	660	1,600		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC

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Sample Description: **SL-005-SA3-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-4.0-5.0

LLI Sample # SW 6437193
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:09

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Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6801 SDG#: DE268-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Summary. The following corrective action was taken: The sample was re-extracted outside of the method required holding time, and LCS/LCSD recoveries are within the QC acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extracts.								
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,700		6.63	21.9		1
07914	Boron	7440-42-8	0.394	U	0.394	5.48		1
01650	Calcium	7440-70-2	1,910		2.74	21.9		1
01654	Iron	7439-89-6	19,900		2.86	21.9		1
01656	Lithium	7439-93-2	19.1		0.68	2.2		1
01657	Magnesium	7439-95-4	3,610		0.482	11.0		1
06958	Manganese	7439-96-5	201		0.0394	0.548		1
10145	Phosphorus	7723-14-0	153		0.383	11.0		1
01662	Potassium	7440-09-7	1,800		12.0	53.2		1
01667	Sodium	7440-23-5	130		6.33	106		1
07968	Strontium	7440-24-6	21.3		0.0274	0.548		1
06969	Tin	7440-31-5	2.73	J	0.350	11.0		1
06970	Titanium	7440-32-6	1,210		0.0778	1.10		1
10146	Zirconium	7440-67-7	1.56	J	0.504	5.48		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Sample Description: SL-005-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-4.0-5.0

LLI Sample # SW 6437193
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:09

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E6801 SDG#: DE268-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.106	J	0.0787	0.213		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.76		0.0851	0.425		2
06126	Barium	7440-39-3	113		0.113	0.425		2
06127	Beryllium	7440-41-7	0.861		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.0489	J	0.0468	0.106		2
06131	Chromium	7440-47-3	18.0		0.128	0.425		2
06132	Cobalt	7440-48-4	6.22		0.0213	0.106		2
06133	Copper	7440-50-8	6.71		0.0851	0.425		2
06135	Lead	7439-92-1	6.14		0.0108	0.213		2
06138	Molybdenum	7439-98-7	0.715		0.0532	0.106		2
06139	Nickel	7440-02-0	11.4		0.106	0.425		2
06141	Selenium	7782-49-2	0.0769	J	0.0617	0.425		2
06142	Silver	7440-22-4	0.0647	J	0.0151	0.106		2
06145	Thallium	7440-28-0	0.311		0.0319	0.106		2
06148	Vanadium	7440-62-2	39.1		0.0234	0.106		2
06149	Zinc	7440-66-6	65.1		0.595	3.19		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0075	U	0.0075	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3		0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6	J	0.89	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	J	0.22	1.1		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.55		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.11		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.7		0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-005-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-4.0-5.0

LLI Sample # SW 6437193
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:09

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14420 Albemarle Point Place
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E6801 SDG#: DE268-01

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-005-SA3-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11291SLG026	11/01/2011 23:04	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11290SLF026	10/20/2011 02:37	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11298SLA026	10/28/2011 10:07	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11291SLG026	10/19/2011 06:50	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11298SLA026	10/25/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLF026	10/18/2011 10:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11293A16A	10/21/2011 04:31	Laura M Krieger	21.59
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128725853	10/14/2011 16:20	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128725853	10/14/2011 16:21	Christopher D Meeks	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112880015A	10/21/2011 03:15	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112910003A	10/19/2011 21:00	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112910025A	10/21/2011 08:03	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112910025A	10/19/2011 12:00	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112910003A	10/18/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880015A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112900028A	10/18/2011 20:55	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112980042A	10/25/2011 22:11	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112920028A	10/21/2011 16:27	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112920027A	10/21/2011 01:39	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112920027A	10/20/2011 12:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	112920028A	10/20/2011 12:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112900028A	10/18/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112980042A	10/25/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112905708002	10/25/2011 02:44	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112905708002	10/25/2011 02:44	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112905708002	10/25/2011 02:44	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112905708002	10/25/2011 02:44	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112905708002	10/25/2011 02:44	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112905708002	10/25/2011 02:44	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112905708002	10/25/2011 02:44	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112905708002	10/25/2011 02:44	Tara L Snyder	1

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Sample Description: **SL-005-SA3-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-4.0-5.0

LLI Sample # SW 6437193
LLI Group # 1271284
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:09

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Reported: 11/18/2011 09:28

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E6801 SDG#: DE268-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	112985708002	10/26/2011 10:34	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112985708002	10/26/2011 10:34	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112905708002	10/25/2011 02:44	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112905708002	10/25/2011 02:44	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112905708002	10/25/2011 02:44	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112905708002	10/25/2011 02:44	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112901026001A	10/18/2011 07:44	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112901026001A	10/18/2011 07:44	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112901026001D	10/18/2011 07:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112901026001A	10/18/2011 07:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112901026001A	10/18/2011 07:44	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112901026001A	10/18/2011 07:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112901026001A	10/18/2011 07:44	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112901026001A	10/18/2011 07:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112901026001A	10/18/2011 07:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112901026001C	10/18/2011 07:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112901026001A	10/18/2011 07:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112901026001B	10/18/2011 07:44	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112901026001A	10/18/2011 07:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112901026001A	10/18/2011 07:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112901026001A	10/18/2011 07:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112901026001A	10/18/2011 07:44	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112905711002	10/18/2011 09:44	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112905708002	10/17/2011 22:40	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112985708002	10/25/2011 22:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112901026001	10/17/2011 22:42	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112905711002	10/18/2011 02:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11298495201A	10/25/2011 17:50	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11298495201A	10/25/2011 17:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11293621201A	10/20/2011 13:41	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11291243201A	10/20/2011 16:22	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11293102201A	10/21/2011 08:09	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11298495201A	10/25/2011 01:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621201A	10/20/2011 06:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11293102201A	10/20/2011 15:35	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11299039402B	10/26/2011 15:00	Michele L Graham	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-005-SA3-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-4.0-5.0

LLI Sample # SW 6437193
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:09

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6801 SDG#: DE268-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-005-SA3-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-7.5-8.5

LLI Sample # SW 6437194
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 11:34

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6802 SDG#: DE268-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	19.7	U	19.7	39.3		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	200	U	200	590		1
04688	Benzidine	92-87-5	1,400	U	1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U	200	590		1
04688	Benzyl alcohol	100-51-6	200	U	200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U	20	200		1
04688	Carbazole	86-74-8	20	U	20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U	40	200		1
04688	4-Chloroaniline	106-47-8	79	U	79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U	20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U	20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U	20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U	20	200		1
04688	2-Chlorophenol	95-57-8	20	U	20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U	40	200		1
04688	Dibenzofuran	132-64-9	20	U	20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U	20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U	20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U	20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U	20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U	40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U	40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U	200	590		1
04688	2,4-Dinitrophenol	51-28-5	400	U	400	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	40	U	40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U	20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U	20	200		1
04688	Hexachlorobenzene	118-74-1	20	U	20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U	79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U	200	590		1
04688	Hexachloroethane	67-72-1	20	U	20	200		1
04688	Isophorone	78-59-1	20	U	20	200		1
04688	2-Methylphenol	95-48-7	40	U	40	200		1
04688	4-Methylphenol	106-44-5	40	U	40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U	20	200		1
04688	3-Nitroaniline	99-09-2	40	U	40	200		1
04688	4-Nitroaniline	100-01-6	79	U	79	200		1
04688	Nitrobenzene	98-95-3	20	U	20	200		1
04688	2-Nitrophenol	88-75-5	20	U	20	200		1
04688	4-Nitrophenol	100-02-7	200	U	200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U	20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U	20	200		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-005-SA3-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-7.5-8.5

LLI Sample # SW 6437194
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 11:34

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6802 SDG#: DE268-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U	200	590		1
04688	Phenol	108-95-2	20	U	20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U	20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U	40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U	40	200		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U	0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U	0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.79	U	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.2	U	7.2	21		1
10138	Di-n-butylphthalate	84-74-2	7.2	U	7.2	21		1
10138	Chrysene	218-01-9	0.40	U	0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.2	U	7.2	21		1
10138	Dimethylphthalate	131-11-3	7.2	U	7.2	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	18	J	7.2	21		1
10138	Fluoranthene	206-44-0	0.79	U	0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.2	U	7.2	21		1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0		1
10138	Pyrene	129-00-0	0.79	U	0.79	2.0		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1		20.63
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69	U	69	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46	U	46	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92	U	92	280	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-005-SA3-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-7.5-8.5

LLI Sample # SW 6437194
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 11:34

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6802 SDG#: DE268-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92	U	92	280	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	46	U	46	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	46	U	46	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	46	U	46	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	46	U	46	140	10000000	1
10132	Nitroglycerin	55-63-0	920	U	920	2,800	10000000	1
10132	2-Nitrotoluene	88-72-2	92	U	92	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	92	U	92	140	10000000	1
10132	PETN	78-11-5	920	U	920	2,800	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	70	U	70	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46	U	46	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46	U	46	140	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	720	U	720	1,800		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-005-SA3-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-7.5-8.5

LLI Sample # SW 6437194
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 11:34

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6802 SDG#: DE268-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Summary. The following corrective action was taken: The sample was re-extracted outside of the method required holding time, and LCS/LCSD recoveries are within the QC acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extracts.								
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	120	U	120	600		1
10501	Isopropanol	67-63-0	120	U	120	600		1
10501	Methanol	67-56-1	120	U	120	600		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	6.0	U	6.0	12		1
08283	Ethylene glycol	107-21-1	6.0	U	6.0	12		1
08283	Propylene glycol	57-55-6	6.0	U	6.0	12		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.2		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.2		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C15-C20)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C21-C30)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C30 - C40)	n.a.	0.48	U	0.48	1.4		1
10199	EFH (C8-C11)	n.a.	0.48	U	0.48	1.4		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	11,300		7.14	23.6		1
07914	Boron	7440-42-8	0.425	U	0.425	5.90		1
01650	Calcium	7440-70-2	1,310		2.95	23.6		1
01654	Iron	7439-89-6	15,300		3.08	23.6		1
01656	Lithium	7439-93-2	18.6		0.73	2.4		1
01657	Magnesium	7439-95-4	3,200		0.519	11.8		1
06958	Manganese	7439-96-5	137		0.0425	0.590		1
10145	Phosphorus	7723-14-0	83.8		0.413	11.8		1
01662	Potassium	7440-09-7	2,170		13.3	59.0		1
01667	Sodium	7440-23-5	181		7.02	118		1
07968	Strontium	7440-24-6	15.7		0.0295	0.590		1
06969	Tin	7440-31-5	2.60	J	0.378	11.8		1
06970	Titanium	7440-32-6	1,090		0.0838	1.18		1
10146	Zirconium	7440-67-7	1.06	J	0.543	5.90		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-005-SA3-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-7.5-8.5

LLI Sample # SW 6437194
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 11:34

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6802 SDG#: DE268-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0882 U	0.0882	0.238		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.89	0.0954	0.477		2
06126	Barium	7440-39-3	65.0	0.126	0.477		2
06127	Beryllium	7440-41-7	0.518	0.0191	0.119		2
06128	Cadmium	7440-43-9	0.0524 U	0.0524	0.119		2
06131	Chromium	7440-47-3	14.0	0.143	0.477		2
06132	Cobalt	7440-48-4	4.28	0.0238	0.119		2
06133	Copper	7440-50-8	5.13	0.0954	0.477		2
06135	Lead	7439-92-1	3.65	0.0122	0.238		2
06138	Molybdenum	7439-98-7	0.212	0.0596	0.119		2
06139	Nickel	7440-02-0	7.76	0.119	0.477		2
06141	Selenium	7782-49-2	0.0691 U	0.0691	0.477		2
06142	Silver	7440-22-4	0.0206 J	0.0169	0.119		2
06145	Thallium	7440-28-0	0.265	0.0358	0.119		2
06148	Vanadium	7440-62-2	28.7	0.0262	0.119		2
06149	Zinc	7440-66-6	40.3	0.667	3.58		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0079 U	0.0079	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.96 U	0.96	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.7 J	0.96	1.8		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7 U	10.7	35.8		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.2		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.57		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.27	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	16.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-005-SA3-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-7.5-8.5

LLI Sample # SW 6437194
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 11:34

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6802 SDG#: DE268-02

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-005-SA3-SB-8.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11291SLG026	11/01/2011 23:23	Matthew S Woods	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11290SLF026	10/20/2011 03:03	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11298SLA026	10/28/2011 10:40	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11291SLG026	10/19/2011 06:50	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11298SLA026	10/25/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLF026	10/18/2011 10:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11293A16A	10/21/2011 05:09	Laura M Krieger	20.63
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128725853	10/14/2011 16:21	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128725853	10/14/2011 16:22	Christopher D Meeks	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112880015A	10/21/2011 03:58	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112910003A	10/19/2011 21:19	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112910025A	10/23/2011 04:57	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112910025A	10/19/2011 12:00	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112910003A	10/18/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880015A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112900028A	10/18/2011 21:12	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112980042A	10/25/2011 22:24	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112920028A	10/21/2011 16:49	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112920027A	10/21/2011 02:03	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112920027A	10/20/2011 12:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	112920028A	10/20/2011 12:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112900028A	10/18/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112980042A	10/25/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112905708002	10/25/2011 02:56	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112905708002	10/25/2011 02:56	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112905708002	10/25/2011 02:56	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112905708002	10/25/2011 02:56	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112905708002	10/25/2011 02:56	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112905708002	10/25/2011 02:56	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112905708002	10/25/2011 02:56	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112905708002	10/25/2011 02:56	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-005-SA3-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-7.5-8.5

LLI Sample # SW 6437194
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 11:34

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6802 SDG#: DE268-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	112985708002	10/26/2011 10:38	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112985708002	10/26/2011 10:38	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112905708002	10/25/2011 02:56	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112905708002	10/25/2011 02:56	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112905708002	10/25/2011 02:56	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112905708002	10/25/2011 02:56	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112901026001A	10/18/2011 07:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112901026001A	10/18/2011 07:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112901026001D	10/18/2011 07:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112901026001A	10/18/2011 07:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112901026001A	10/18/2011 07:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112901026001A	10/18/2011 07:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112901026001A	10/18/2011 07:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112901026001A	10/18/2011 07:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112901026001A	10/18/2011 07:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112901026001C	10/19/2011 18:39	Parker D Lindstrom	2
06139	Nickel	SW-846 6020	1	112901026001A	10/18/2011 07:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112901026001B	10/18/2011 07:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112901026001A	10/18/2011 07:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112901026001A	10/18/2011 07:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112901026001A	10/18/2011 07:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112901026001A	10/18/2011 07:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112905711002	10/18/2011 09:47	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112905708002	10/17/2011 22:40	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112985708002	10/25/2011 22:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112901026001	10/17/2011 22:42	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112905711002	10/18/2011 02:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11298495201A	10/25/2011 18:05	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11298495201A	10/25/2011 18:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11293621201A	10/20/2011 14:04	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11291243201A	10/20/2011 16:28	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11293102201A	10/21/2011 08:10	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11298495201A	10/25/2011 01:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621201A	10/20/2011 06:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11293102201A	10/20/2011 15:35	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11299039402B	10/26/2011 15:00	Michele L Graham	1

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Analysis Report

Sample Description: **SL-005-SA3-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-7.5-8.5

LLI Sample # SW 6437194
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 11:34

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6802 SDG#: DE268-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11291243201A	10/18/2011 10:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

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Analysis Report

Sample Description: SL-089-SA7-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437195
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.8	U	18.8	37.5		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	28	J	19	370		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-089-SA7-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437195
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1
04688	Tetralin	119-64-2	190	U	190	190		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.3	J	0.2	1.1		25.3
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	68	U	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	140	10000000	1

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Analysis Report

Sample Description: SL-089-SA7-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437195
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	140	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	140	10000000	1
10132	Nitroglycerin	55-63-0	910	U	910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	91	U	91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	91	U	91	140	10000000	1
10132	PETN	78-11-5	910	U	910	2,700	10000000	1
10132	RDX	121-82-4	57	U	57	140	10000000	1
10132	Tetryl	479-45-8	69	U	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	680	U	680	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

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Sample Description: **SL-089-SA7-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437195
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside of the method required holding time, and LCS/LCSD recoveries are within the QC acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extracts.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	570		1
10501	Isopropanol	67-63-0	110	U	110	570		1
10501	Methanol	67-56-1	110	U	110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.7	U	5.7	11		1
08283	Ethylene glycol	107-21-1	5.7	U	5.7	11		1
08283	Propylene glycol	57-55-6	5.7	U	5.7	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	0.59	J	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	2.5		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	6.2		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.58	J	0.45	1.4		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,200		6.60	21.8		1
07914	Boron	7440-42-8	1.17	J	0.392	5.45		1
01650	Calcium	7440-70-2	3,860		2.73	21.8		1
01654	Iron	7439-89-6	22,900		2.85	21.8		1
01656	Lithium	7439-93-2	31.3		0.68	2.2		1
01657	Magnesium	7439-95-4	6,880		0.480	10.9		1
06958	Manganese	7439-96-5	340		0.0392	0.545		1
10145	Phosphorus	7723-14-0	493		0.382	10.9		1
01662	Potassium	7440-09-7	2,680		12.4	55.0		1
01667	Sodium	7440-23-5	134		6.55	110		1
07968	Strontium	7440-24-6	14.3		0.0273	0.545		1
06969	Tin	7440-31-5	2.96	J	0.349	10.9		1
06970	Titanium	7440-32-6	1,370		0.0774	1.09		1
10146	Zirconium	7440-67-7	1.02	J	0.501	5.45		1

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Sample Description: **SL-089-SA7-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437195
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.153 J	0.0831	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.29	0.0898	0.449		2
06126	Barium	7440-39-3	96.4	0.119	0.449		2
06127	Beryllium	7440-41-7	0.548	0.0180	0.112		2
06128	Cadmium	7440-43-9	0.0810 J	0.0494	0.112		2
06131	Chromium	7440-47-3	19.6	0.135	0.449		2
06132	Cobalt	7440-48-4	6.53	0.0225	0.112		2
06133	Copper	7440-50-8	9.47	0.0898	0.449		2
06135	Lead	7439-92-1	5.14	0.0115	0.225		2
06138	Molybdenum	7439-98-7	0.301	0.0561	0.112		2
06139	Nickel	7440-02-0	13.1	0.112	0.449		2
06141	Selenium	7782-49-2	0.184 J	0.0651	0.449		2
06142	Silver	7440-22-4	0.0383 J	0.0159	0.112		2
06145	Thallium	7440-28-0	0.277	0.0337	0.112		2
06148	Vanadium	7440-62-2	38.8	0.0247	0.112		2
06149	Zinc	7440-66-6	62.3	0.629	3.37		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0077 J	0.0075	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5	0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.3	0.92	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2 U	10.2	34.0		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.56		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.86	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: SL-089-SA7-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437195
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03BKG

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-089-SA7-SB-4.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11291SLG026	11/01/2011 23:42	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11290SLF026	10/20/2011 03:28	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11298SLA026	10/28/2011 01:05	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11291SLG026	10/19/2011 06:50	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11298SLA026	10/25/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLF026	10/18/2011 10:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11293A16A	10/21/2011 02:00	Laura M Krieger	25.3
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128725853	10/14/2011 16:24	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128725853	10/14/2011 16:24	Christopher D Meeks	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112880015A	10/21/2011 04:40	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112910003A	10/19/2011 21:28	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112910025A	10/21/2011 08:41	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112910025A	10/19/2011 12:00	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112910003A	10/18/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880015A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112900028A	10/18/2011 21:28	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112980042A	10/25/2011 22:37	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112920028A	10/21/2011 20:08	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112920027A	10/21/2011 02:27	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112920027A	10/20/2011 12:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	112920028A	10/20/2011 12:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112900028A	10/18/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112980042A	10/25/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112905708002	10/25/2011 02:20	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112905708002	10/25/2011 19:41	John P Hook	1
01650	Calcium	SW-846 6010B	1	112905708002	10/25/2011 02:20	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112905708002	10/25/2011 02:20	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112905708002	10/25/2011 02:20	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112905708002	10/25/2011 02:20	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112905708002	10/25/2011 02:20	Tara L Snyder	1

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Sample Description: **SL-089-SA7-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437195
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	112905708002	10/25/2011 02:20	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112985708002	10/26/2011 10:12	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112985708002	10/26/2011 10:12	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112905708002	10/25/2011 02:20	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112905708002	10/25/2011 02:20	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112905708002	10/25/2011 02:20	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112905708002	10/25/2011 02:20	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112901026001A	10/18/2011 07:20	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112901026001A	10/18/2011 07:20	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112901026001D	10/18/2011 07:20	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112901026001A	10/18/2011 07:20	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112901026001A	10/18/2011 07:20	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112901026001A	10/18/2011 07:20	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112901026001A	10/18/2011 07:20	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112901026001A	10/18/2011 07:20	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112901026001A	10/18/2011 07:20	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112901026001C	10/18/2011 07:20	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112901026001A	10/18/2011 07:20	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112901026001B	10/18/2011 07:20	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112901026001A	10/18/2011 07:20	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112901026001A	10/18/2011 07:20	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112901026001A	10/18/2011 07:20	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112901026001A	10/18/2011 07:20	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112905711002	10/18/2011 09:48	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112905708002	10/17/2011 22:40	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112985708002	10/25/2011 22:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112901026001	10/17/2011 22:42	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112905711002	10/18/2011 02:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11298495201A	10/25/2011 17:02	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11298495201A	10/25/2011 17:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11293621201A	10/20/2011 11:45	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11292243201A	10/20/2011 15:33	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11293102201B	10/21/2011 08:12	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11298495201A	10/25/2011 01:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621201A	10/20/2011 06:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11293102201B	10/20/2011 15:35	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11299039402B	10/26/2011 15:00	Michele L Graham	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-089-SA7-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437195
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11292243201A	10/19/2011 09:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA7-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437196
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	916		18.9	37.8		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,900		19	190		1
04688	Acenaphthylene	208-96-8	2,000		19	190		1
04688	Aniline	62-53-3	1,700		190	570		1
04688	Anthracene	120-12-7	1,900		19	190		1
04688	Benzidine	92-87-5	4,500		1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	1,900		19	190		1
04688	Benzo(a)pyrene	50-32-8	2,000		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	2,100		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	2,000		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,800		19	190		1
04688	Benzoic acid	65-85-0	1,200		190	570		1
04688	Benzyl alcohol	100-51-6	2,000		190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	2,000		19	190		1
04688	Butylbenzylphthalate	85-68-7	1,900		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,800		19	190		1
04688	Carbazole	86-74-8	1,800		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	2,000		38	190		1
04688	4-Chloroaniline	106-47-8	1,300		75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	2,000		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	2,000		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	2,000		19	190		1
04688	2-Chloronaphthalene	91-58-7	1,500		19	190		1
04688	2-Chlorophenol	95-57-8	1,900		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	2,000		38	190		1
04688	Chrysene	218-01-9	1,800		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	2,100		19	190		1
04688	Dibenzofuran	132-64-9	1,900		19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,700		19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,700		19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,700		19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,400		110	380		1
04688	2,4-Dichlorophenol	120-83-2	2,000		19	190		1
04688	Diethylphthalate	84-66-2	1,800		19	190		1
04688	2,4-Dimethylphenol	105-67-9	2,000		38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	Dimethylphthalate	131-11-3	1,900		19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	650		190	570		1
04688	2,4-Dinitrophenol	51-28-5	1,200		380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,900		38	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,900		19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	2,100		19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,000		19	380		1
04688	Fluoranthene	206-44-0	1,900		19	190		1
04688	Fluorene	86-73-7	1,900		19	190		1
04688	Hexachlorobenzene	118-74-1	2,000		19	190		1
04688	Hexachlorobutadiene	87-68-3	1,900		75	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-089-SA7-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437196
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorocyclopentadiene	77-47-4	1,900		190	570		1
04688	Hexachloroethane	67-72-1	1,600		19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	2,000		19	190		1
04688	Isophorone	78-59-1	2,100		19	190		1
04688	1-Methylnaphthalene	90-12-0	1,800		19	190		1
04688	2-Methylnaphthalene	91-57-6	1,900		19	190		1
04688	2-Methylphenol	95-48-7	2,000		38	190		1
04688	4-Methylphenol	106-44-5	2,000		38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,900		19	190		1
04688	2-Nitroaniline	88-74-4	2,100		19	190		1
04688	3-Nitroaniline	99-09-2	1,900		38	190		1
04688	4-Nitroaniline	100-01-6	1,500		75	190		1
04688	Nitrobenzene	98-95-3	2,100		19	190		1
04688	2-Nitrophenol	88-75-5	2,000		19	190		1
04688	4-Nitrophenol	100-02-7	1,600		190	570		1
04688	N-Nitrosodimethylamine	62-75-9	2,100		38	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,900		19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,900		19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	2,100		19	190		1
04688	Pentachlorophenol	87-86-5	1,500		190	570		1
04688	Phenanthrene	85-01-8	1,800		19	190		1
04688	Phenol	108-95-2	1,900		19	190		1
04688	Pyrene	129-00-0	1,800		19	190		1
04688	Tetralin	119-64-2	190	U	190	190		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	1,900		19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	2,000		38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	2,100		38	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	35		0.76	1.9		1
10138	Acenaphthylene	208-96-8	34		0.38	1.9		1
10138	Anthracene	120-12-7	36		0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	36		0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	35		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	37		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	29		0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	37		0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	40		6.8	20		1
10138	Di-n-butylphthalate	84-74-2	42		6.8	20		1
10138	Chrysene	218-01-9	36		0.38	1.9		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA7-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437196
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	32		0.76	1.9		1
10138	Diethylphthalate	84-66-2	39		6.8	20		1
10138	Dimethylphthalate	131-11-3	38		6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	63		6.8	20		1
10138	Fluoranthene	206-44-0	37		0.76	1.9		1
10138	Fluorene	86-73-7	37		0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	32		0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	33		0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	32		0.76	1.9		1
10138	Naphthalene	91-20-3	34		0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	33		0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	53		6.8	20		1
10138	Phenanthrene	85-01-8	34		0.76	1.9		1
10138	Pyrene	129-00-0	36		0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	9.0		0.2	1.1		24.13
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,400		68	140		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,400		45	140		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270		1
10132	1,3-Dinitrobenzene	99-65-0	2,500		45	140		1
10132	2,4-Dinitrotoluene	121-14-2	2,200		45	140		1
10132	2,6-Dinitrotoluene	606-20-2	2,400		45	140		1
10132	HMX	2691-41-0	2,100		110	340		1
10132	Nitrobenzene	98-95-3	2,300		45	140		1
10132	Nitroglycerin	55-63-0	54,000		910	2,700		1
10132	2-Nitrotoluene	88-72-2	2,300		91	140		1
10132	3-Nitrotoluene	99-08-1	2,400		110	140		1
10132	4-Nitrotoluene	99-99-0	2,200		91	140		1
10132	PETN	78-11-5	57,000		910	2,700		1
10132	RDX	121-82-4	2,200		57	140		1
10132	Tetryl	479-45-8	2,000		69	140		1
10132	1,3,5-Trinitrobenzene	99-35-4	2,200		45	140		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,300		45	140		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	5,600		680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	12		0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1

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Sample Description: **SL-089-SA7-SB-3.5-4.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437196
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	15		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside of the method required holding time, and LCS/LCSD recoveries are within the QC acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extracts.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,100		110	570		1
10501	Isopropanol	67-63-0	2,000		110	570		1
10501	Methanol	67-56-1	2,100		110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	110		5.7	11		1
08283	Ethylene glycol	107-21-1	160		5.7	11		1
08283	Propylene glycol	57-55-6	170		5.7	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	9.0		1.7	4.0		1
10318	o-Terphenyl	84-15-1	9.6		1.7	4.0		1
10318	p-Terphenyl	92-94-4	9.1		1.7	4.0		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.78	J	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	1.7		0.45	1.4		1
10199	EFH (C21-C30)	n.a.	5.0		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	9.3		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.57	J	0.45	1.4		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,700		6.66	22.0		1
07914	Boron	7440-42-8	228		0.396	5.50		1
01650	Calcium	7440-70-2	4,550		2.75	22.0		1
01654	Iron	7439-89-6	25,500		2.87	22.0		1
01656	Lithium	7439-93-2	143		0.68	2.2		1

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Sample Description: SL-089-SA7-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437196
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	7,750	0.484	11.0		1
06958	Manganese	7439-96-5	365	0.0396	0.550		1
10145	Phosphorus	7723-14-0	588	0.385	11.0		1
01662	Potassium	7440-09-7	4,120	12.7	56.1		1
01667	Sodium	7440-23-5	1,240	6.68	112		1
07968	Strontium	7440-24-6	125	0.0275	0.550		1
06969	Tin	7440-31-5	400	0.352	11.0		1
06970	Titanium	7440-32-6	1,710	0.0782	1.10		1
10146	Zirconium	7440-67-7	108	0.506	5.50		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.676	0.0823	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.53	0.0889	0.445		2
06126	Barium	7440-39-3	112	0.118	0.445		2
06127	Beryllium	7440-41-7	1.36	0.0178	0.111		2
06128	Cadmium	7440-43-9	1.32	0.0489	0.111		2
06131	Chromium	7440-47-3	30.2	0.133	0.445		2
06132	Cobalt	7440-48-4	65.2	0.0222	0.111		2
06133	Copper	7440-50-8	21.3	0.0889	0.445		2
06135	Lead	7439-92-1	9.11	0.0113	0.222		2
06138	Molybdenum	7439-98-7	11.9	0.0556	0.111		2
06139	Nickel	7440-02-0	25.5	0.111	0.445		2
06141	Selenium	7782-49-2	2.48	0.0645	0.445		2
06142	Silver	7440-22-4	11.5	0.0158	0.111		2
06145	Thallium	7440-28-0	0.737	0.0333	0.111		2
06148	Vanadium	7440-62-2	49.8	0.0245	0.111		2
06149	Zinc	7440-66-6	74.6	0.622	3.33		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.194	0.0078	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	10.6	0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	14.4	0.92	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	647	10.2	34.0		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	38.9	1.1	5.5		5
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	5.6	0.20	0.56		1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA7-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437196
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11625	Moisture Content by 160.3	n.a.	11.8	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-089-SA7-SB-4.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11291SLG026	11/02/2011 00:20	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11290SLF026	10/20/2011 03:54	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11298SLA026	10/28/2011 01:38	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11291SLG026	10/19/2011 06:50	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11298SLA026	10/25/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLF026	10/18/2011 10:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11293A16A	10/21/2011 02:38	Laura M Krieger	24.13
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128725853	10/14/2011 16:24	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128725853	10/14/2011 16:25	Christopher D Meeks	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112880015A	10/21/2011 05:22	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112910003A	10/19/2011 21:38	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112910025A	10/21/2011 09:00	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112910025A	10/19/2011 12:00	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112910003A	10/18/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880015A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112900028A	10/18/2011 23:40	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112980042A	10/25/2011 22:50	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112920028A	10/21/2011 20:30	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112920027A	10/21/2011 02:51	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112920027A	10/20/2011 12:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	112920028A	10/20/2011 12:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112900028A	10/18/2011 17:00	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-089-SA7-SB-3.5-4.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437196
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112980042A	10/25/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112905708002	10/25/2011 02:32	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112905708002	10/25/2011 19:53	John P Hook	1
01650	Calcium	SW-846 6010B	1	112905708002	10/25/2011 02:32	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112905708002	10/25/2011 02:32	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112905708002	10/25/2011 02:32	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112905708002	10/25/2011 02:32	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112905708002	10/25/2011 02:32	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112905708002	10/25/2011 02:32	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112985708002	10/26/2011 10:23	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112985708002	10/26/2011 10:23	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112905708002	10/25/2011 02:32	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112905708002	10/25/2011 02:32	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112905708002	10/25/2011 02:32	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112905708002	10/25/2011 02:32	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112901026001A	10/18/2011 07:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112901026001A	10/18/2011 07:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112901026001D	10/18/2011 07:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112901026001A	10/18/2011 07:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112901026001A	10/18/2011 07:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112901026001A	10/18/2011 07:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112901026001A	10/18/2011 07:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112901026001A	10/18/2011 07:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112901026001A	10/18/2011 07:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112901026001C	10/18/2011 07:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112901026001A	10/18/2011 07:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112901026001B	10/18/2011 07:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112901026001A	10/18/2011 07:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112901026001A	10/18/2011 07:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112901026001A	10/18/2011 07:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112901026001A	10/18/2011 07:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112905711002	10/18/2011 09:52	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112905708002	10/17/2011 22:40	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112985708002	10/25/2011 22:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112901026001	10/17/2011 22:42	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112905711002	10/18/2011 02:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11298495201A	10/25/2011 17:34	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11298495201A	10/25/2011 17:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11293621201A	10/20/2011 12:32	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11292243201A	10/20/2011 15:55	Elyse P Brunstetter	5

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-089-SA7-SB-3.5-4.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437196
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05895	16a Cyanide by 9012B	SW-846 9012B	1	11293102201B	10/21/2011 08:13	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11298495201A	10/25/2011 01:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621201A	10/20/2011 06:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11293102201B	10/20/2011 15:35	Carolyn M Mastropietro	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11292243201A	10/19/2011 09:50	Michelle L Lalli	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-089-SA7-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437197
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	902		18.9	37.8		1
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,900		19	190		1
04688	Acenaphthylene	208-96-8	2,100		19	190		1
04688	Aniline	62-53-3	1,600		190	560		1
04688	Anthracene	120-12-7	1,900		19	190		1
04688	Benzidine	92-87-5	3,800		1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	1,900		19	190		1
04688	Benzo(a)pyrene	50-32-8	2,000		19	190		1
04688	Benzo(b)fluoranthene	205-99-2	2,100		19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	2,000		19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,800		19	190		1
04688	Benzoic acid	65-85-0	730		190	560		1
04688	Benzyl alcohol	100-51-6	2,000		190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	2,100		19	190		1
04688	Butylbenzylphthalate	85-68-7	1,900		19	190		1
04688	Di-n-butylphthalate	84-74-2	1,900		19	190		1
04688	Carbazole	86-74-8	1,800		19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,900		38	190		1
04688	4-Chloroaniline	106-47-8	1,300		75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	2,000		19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	2,000		19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	2,000		19	190		1
04688	2-Chloronaphthalene	91-58-7	1,500		19	190		1
04688	2-Chlorophenol	95-57-8	2,000		19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	2,000		38	190		1
04688	Chrysene	218-01-9	1,800		19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	2,100		19	190		1
04688	Dibenzofuran	132-64-9	1,900		19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,700		19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,600		19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,600		19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,300		110	380		1
04688	2,4-Dichlorophenol	120-83-2	2,000		19	190		1
04688	Diethylphthalate	84-66-2	1,800		19	190		1
04688	2,4-Dimethylphenol	105-67-9	2,000		38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	Dimethylphthalate	131-11-3	1,900		19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	390	J	190	560		1
04688	2,4-Dinitrophenol	51-28-5	1,200		380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,900		38	190		1
04688	2,6-Dinitrotoluene	606-20-2	2,000		19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	2,200		19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,000		19	380		1
04688	Fluoranthene	206-44-0	1,900		19	190		1
04688	Fluorene	86-73-7	1,900		19	190		1
04688	Hexachlorobenzene	118-74-1	2,000		19	190		1
04688	Hexachlorobutadiene	87-68-3	1,900		75	190		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-089-SA7-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437197
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Hexachlorocyclopentadiene	77-47-4	2,600		190	560		1
04688	Hexachloroethane	67-72-1	1,600		19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	2,000		19	190		1
04688	Isophorone	78-59-1	2,100		19	190		1
04688	1-Methylnaphthalene	90-12-0	1,800		19	190		1
04688	2-Methylnaphthalene	91-57-6	1,800		19	190		1
04688	2-Methylphenol	95-48-7	2,000		38	190		1
04688	4-Methylphenol	106-44-5	2,000		38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	Naphthalene	91-20-3	1,800		19	190		1
04688	2-Nitroaniline	88-74-4	2,100		19	190		1
04688	3-Nitroaniline	99-09-2	1,800		38	190		1
04688	4-Nitroaniline	100-01-6	1,500		75	190		1
04688	Nitrobenzene	98-95-3	2,100		19	190		1
04688	2-Nitrophenol	88-75-5	1,900		19	190		1
04688	4-Nitrophenol	100-02-7	1,500		190	560		1
04688	N-Nitrosodimethylamine	62-75-9	2,100		38	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,900		19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	2,000		19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	2,100		19	190		1
04688	Pentachlorophenol	87-86-5	1,100		190	560		1
04688	Phenanthrene	85-01-8	1,800		19	190		1
04688	Phenol	108-95-2	2,000		19	190		1
04688	Pyrene	129-00-0	1,900		19	190		1
04688	Tetralin	119-64-2	190	U	190	190		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	1,900		19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	2,000		38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	2,000		38	190		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg		ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	38		0.76	1.9		1
10138	Acenaphthylene	208-96-8	37		0.38	1.9		1
10138	Anthracene	120-12-7	39		0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	38		0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	38		0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	40		0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	32		0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	39		0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	45		6.8	20		1
10138	Di-n-butylphthalate	84-74-2	60		6.8	20		1
10138	Chrysene	218-01-9	38		0.38	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-089-SA7-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437197
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Dibenz(a,h)anthracene	53-70-3	35		0.76	1.9		1
10138	Diethylphthalate	84-66-2	48		6.8	20		1
10138	Dimethylphthalate	131-11-3	40		6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	55		6.8	20		1
10138	Fluoranthene	206-44-0	39		0.76	1.9		1
10138	Fluorene	86-73-7	39		0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	35		0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	35		0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	35		0.76	1.9		1
10138	Naphthalene	91-20-3	36		0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	36		0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	43		6.8	20		1
10138	Phenanthrene	85-01-8	37		0.76	1.9		1
10138	Pyrene	129-00-0	38		0.76	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	9.8		0.2	1.0		22.69
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	2,500		68	140		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	2,400		45	140		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270		1
10132	1,3-Dinitrobenzene	99-65-0	2,500		45	140		1
10132	2,4-Dinitrotoluene	121-14-2	2,300		45	140		1
10132	2,6-Dinitrotoluene	606-20-2	2,400		45	140		1
10132	HMX	2691-41-0	2,100		110	340		1
10132	Nitrobenzene	98-95-3	2,400		45	140		1
10132	Nitroglycerin	55-63-0	54,000		910	2,700		1
10132	2-Nitrotoluene	88-72-2	2,300		91	140		1
10132	3-Nitrotoluene	99-08-1	2,500		110	140		1
10132	4-Nitrotoluene	99-99-0	2,300		91	140		1
10132	PETN	78-11-5	59,000		910	2,700		1
10132	RDX	121-82-4	2,200		57	140		1
10132	Tetryl	479-45-8	1,900		69	140		1
10132	1,3,5-Trinitrobenzene	99-35-4	2,300		45	140		1
10132	2,4,6-Trinitrotoluene	118-96-7	2,400		45	140		1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	5,900		680	1,700		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	12		0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-089-SA7-SB-3.5-4.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437197
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	16		0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside of the method required holding time, and LCS/LCSD recoveries are within the QC acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extracts.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	2,100		110	570		1
10501	Isopropanol	67-63-0	2,000		110	570		1
10501	Methanol	67-56-1	2,000		110	570		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	110		5.7	11		1
08283	Ethylene glycol	107-21-1	160		5.7	11		1
08283	Propylene glycol	57-55-6	170		5.7	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	9.1		1.7	4.0		1
10318	o-Terphenyl	84-15-1	9.7		1.7	4.0		1
10318	p-Terphenyl	92-94-4	9.3		1.7	4.0		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.85	J	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	2.0		0.45	1.4		1
10199	EFH (C21-C30)	n.a.	5.3		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	10		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.62	J	0.45	1.4		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,600		6.72	22.2		1
07914	Boron	7440-42-8	227		0.400	5.56		1
01650	Calcium	7440-70-2	4,390		2.78	22.2		1
01654	Iron	7439-89-6	40,400		5.80	44.5		2
01656	Lithium	7439-93-2	140		0.69	2.2		1

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Sample Description: SL-089-SA7-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437197
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
01657	Magnesium	7439-95-4	7,340	0.489	11.1		1
06958	Manganese	7439-96-5	381	0.0400	0.556		1
10145	Phosphorus	7723-14-0	594	0.389	11.1		1
01662	Potassium	7440-09-7	3,990	12.4	55.0		1
01667	Sodium	7440-23-5	1,200	6.55	110		1
07968	Strontium	7440-24-6	123	0.0278	0.556		1
06969	Tin	7440-31-5	398	0.356	11.1		1
06970	Titanium	7440-32-6	1,690	0.0789	1.11		1
10146	Zirconium	7440-67-7	109	0.511	5.56		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.731	0.0831	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.72	0.0898	0.449		2
06126	Barium	7440-39-3	112	0.119	0.449		2
06127	Beryllium	7440-41-7	1.46	0.0180	0.112		2
06128	Cadmium	7440-43-9	1.29	0.0494	0.112		2
06131	Chromium	7440-47-3	33.1	0.135	0.449		2
06132	Cobalt	7440-48-4	67.4	0.0225	0.112		2
06133	Copper	7440-50-8	22.5	0.0898	0.449		2
06135	Lead	7439-92-1	10.1	0.0115	0.225		2
06138	Molybdenum	7439-98-7	12.7	0.0561	0.112		2
06139	Nickel	7440-02-0	26.2	0.112	0.449		2
06141	Selenium	7782-49-2	2.84	0.0651	0.449		2
06142	Silver	7440-22-4	12.3	0.0159	0.112		2
06145	Thallium	7440-28-0	0.823	0.0337	0.112		2
06148	Vanadium	7440-62-2	54.1	0.0247	0.112		2
06149	Zinc	7440-66-6	78.6	0.629	3.37		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.187	0.0077	0.109		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	11.8	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-089-SA7-SB-4.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: **SL-089-SA7-SB-3.5-4.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437197
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11291SLG026	11/02/2011 00:39	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11290SLF026	10/20/2011 04:19	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11298SLA026	10/28/2011 02:10	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11291SLG026	10/19/2011 06:50	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11298SLA026	10/25/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLF026	10/18/2011 10:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11293A16A	10/21/2011 03:16	Laura M Krieger	22.69
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128725853	10/14/2011 16:25	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128725853	10/14/2011 16:25	Christopher D Meeks	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112880015A	10/21/2011 06:05	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112910003A	10/19/2011 21:47	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112910025A	10/21/2011 09:19	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112910025A	10/19/2011 12:00	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112910003A	10/18/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880015A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112900028A	10/18/2011 23:57	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112980042A	10/25/2011 23:03	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112920028A	10/21/2011 20:52	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112920027A	10/21/2011 03:15	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112920027A	10/20/2011 12:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	112920028A	10/20/2011 12:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112900028A	10/18/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112980042A	10/25/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112905708002	10/25/2011 02:36	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112905708002	10/25/2011 19:57	John P Hook	1
01650	Calcium	SW-846 6010B	1	112905708002	10/25/2011 02:36	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112905708002	10/25/2011 20:05	John P Hook	2
01656	Lithium	SW-846 6010B	1	112905708002	10/25/2011 02:36	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112905708002	10/25/2011 02:36	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112905708002	10/25/2011 02:36	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112905708002	10/25/2011 02:36	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112985708002	10/26/2011 10:27	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112985708002	10/26/2011 10:27	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112905708002	10/25/2011 02:36	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112905708002	10/25/2011 02:36	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112905708002	10/25/2011 02:36	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112905708002	10/25/2011 02:36	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112901026001A	10/18/2011 07:32	Choon Y Tian	2

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Sample Description: **SL-089-SA7-SB-3.5-4.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437197
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	112901026001A	10/18/2011 07:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112901026001D	10/18/2011 07:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112901026001A	10/18/2011 07:32	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112901026001A	10/18/2011 07:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112901026001A	10/18/2011 07:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112901026001A	10/18/2011 07:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112901026001A	10/18/2011 07:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112901026001A	10/18/2011 07:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112901026001C	10/18/2011 07:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112901026001A	10/18/2011 07:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112901026001B	10/18/2011 07:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112901026001A	10/18/2011 07:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112901026001A	10/18/2011 07:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112901026001A	10/18/2011 07:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112901026001A	10/18/2011 07:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112905711002	10/18/2011 09:54	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112905708002	10/17/2011 22:40	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112985708002	10/25/2011 22:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112901026001	10/17/2011 22:42	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112905711002	10/18/2011 02:05	Annamaria Stipkovits	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-089-SA7-SB-3.5-4.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437198
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,500		6.66	22.0		1
07914	Boron	7440-42-8	0.914	J	0.396	5.50		1
01650	Calcium	7440-70-2	3,910		2.75	22.0		1
01654	Iron	7439-89-6	23,400		2.87	22.0		1
01656	Lithium	7439-93-2	32.1		0.68	2.2		1
01657	Magnesium	7439-95-4	6,870		0.484	11.0		1
06958	Manganese	7439-96-5	313		0.0396	0.550		1
10145	Phosphorus	7723-14-0	459		0.385	11.0		1
01662	Potassium	7440-09-7	2,740		12.6	55.6		1
01667	Sodium	7440-23-5	130		6.61	111		1
07968	Strontium	7440-24-6	13.7		0.0275	0.550		1
06969	Tin	7440-31-5	2.78	J	0.352	11.0		1
06970	Titanium	7440-32-6	1,340		0.0782	1.10		1
10146	Zirconium	7440-67-7	1.52	J	0.506	5.50		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.142	J	0.0807	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.30		0.0872	0.436		2
06126	Barium	7440-39-3	106		0.116	0.436		2
06127	Beryllium	7440-41-7	0.610		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.0998	J	0.0480	0.109		2
06131	Chromium	7440-47-3	23.3		0.131	0.436		2
06132	Cobalt	7440-48-4	7.09		0.0218	0.109		2
06133	Copper	7440-50-8	11.4		0.0872	0.436		2
06135	Lead	7439-92-1	5.90		0.0111	0.218		2
06138	Molybdenum	7439-98-7	0.328		0.0545	0.109		2
06139	Nickel	7440-02-0	15.7		0.109	0.436		2
06141	Selenium	7782-49-2	0.174	J	0.0632	0.436		2
06142	Silver	7440-22-4	0.0322	J	0.0155	0.109		2
06145	Thallium	7440-28-0	0.322		0.0327	0.109		2
06148	Vanadium	7440-62-2	46.4		0.0240	0.109		2
06149	Zinc	7440-66-6	72.6		0.611	3.27		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0078	U	0.0078	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0		0.91	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.2		0.91	1.7		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.5		0.22	1.1		1

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Sample Description: SL-089-SA7-SB-3.5-4.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437198
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.20	U	0.20	0.56		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.90		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11626	28a Moisture Content by 160.3	n.a.	11.7		0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.							
11625	Moisture Content by 160.3	n.a.	11.8		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	112905708002	10/25/2011 02:28	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112905708002	10/25/2011 19:49	John P Hook	1
01650	Calcium	SW-846 6010B	1	112905708002	10/25/2011 02:28	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112905708002	10/25/2011 02:28	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112905708002	10/25/2011 02:28	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112905708002	10/25/2011 02:28	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112905708002	10/25/2011 02:28	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112905708002	10/25/2011 02:28	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112985708002	10/26/2011 10:20	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112985708002	10/26/2011 10:20	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112905708002	10/25/2011 02:28	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112905708002	10/25/2011 02:28	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112905708002	10/25/2011 02:28	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112905708002	10/25/2011 02:28	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112901026001A	10/18/2011 07:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112901026001A	10/18/2011 07:26	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112901026001D	10/18/2011 07:26	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112901026001A	10/18/2011 07:26	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112901026001A	10/18/2011 07:26	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112901026001A	10/18/2011 07:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112901026001A	10/18/2011 07:26	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112901026001A	10/18/2011 07:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112901026001A	10/18/2011 07:26	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA7-SB-3.5-4.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437198
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	112901026001C	10/18/2011 07:26	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112901026001A	10/18/2011 07:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112901026001B	10/18/2011 07:26	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112901026001A	10/18/2011 07:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112901026001A	10/18/2011 07:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112901026001A	10/18/2011 07:26	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112901026001A	10/18/2011 07:26	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112905711002	10/18/2011 09:51	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112905708002	10/17/2011 22:40	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112985708002	10/25/2011 22:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112901026001	10/17/2011 22:42	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112905711002	10/18/2011 02:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11298495201A	10/25/2011 17:18	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11298495201A	10/25/2011 17:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11293621201A	10/20/2011 12:09	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11292243201A	10/20/2011 16:38	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11293102201B	10/21/2011 08:14	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11298495201A	10/25/2011 01:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621201A	10/20/2011 06:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11293102201B	10/20/2011 15:35	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11299039402B	10/26/2011 15:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11292243201A	10/19/2011 09:50	Michelle L Lalli	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA7-SB-3.5-4.5RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437199
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	110	J	68	140	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	120	J	45	140	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	91	U	91	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	91	U	91	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	120	J	45	140	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	110	J	45	140	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	110	J	45	140	10000000	1
10132	HMX	2691-41-0	130	J	110	340	10000000	1
10132	Nitrobenzene	98-95-3	110	J	45	140	10000000	1
10132	Nitroglycerin	55-63-0	2,900		910	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	140		91	140	10000000	1
10132	3-Nitrotoluene	99-08-1	120	J	110	140	10000000	1
10132	4-Nitrotoluene	99-99-0	110	J	91	140	10000000	1
10132	PETN	78-11-5	2,800		910	2,700	10000000	1
10132	RDX	121-82-4	91	J	57	140	10000000	1
10132	Tetryl	479-45-8	72	J	69	140	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	120	J	45	140	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	110	J	45	140	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	2,100		680	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	1.5	J	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-089-SA7-SB-3.5-4.5RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437199
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	1.6	J	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside of the method required holding time, and LCS/LCSD recoveries are within the QC acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extracts.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	530	J	110	570		1
10501	Isopropanol	67-63-0	470	J	110	570		1
10501	Methanol	67-56-1	510	J	110	570		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	J	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.9	J	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.4		1
10199	EFH (C15-C20)	n.a.	1.0	J	0.45	1.4		1
10199	EFH (C21-C30)	n.a.	3.6		0.45	1.4		1
10199	EFH (C30 - C40)	n.a.	7.7		0.45	1.4		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.4		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	11.8		0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-089-SA7-SB-3.5-4.5RL MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437199
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03RLR

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10132	15a Energetics by 8330A	SW-846 8330A	1	112880015A	10/21/2011 08:12	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112910003A	10/19/2011 21:57	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112910025A	10/21/2011 10:53	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112910025A	10/19/2011 12:00	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112910003A	10/18/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880015A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112900028A	10/19/2011 00:13	Elizabeth J Marin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112920028A	10/21/2011 19:24	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112920027A	10/21/2011 03:39	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112920027A	10/20/2011 12:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	112920028A	10/20/2011 12:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112900028A	10/18/2011 17:00	Elizabeth J Marin	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-089-SA7-SB-3.5-4.5RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437200
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	120	J	60	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	110	J	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	80	U	80	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	80	U	80	240	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	110	J	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	110	J	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	110	J	40	120	10000000	1
10132	HMX	2691-41-0	110	J	100	300	10000000	1
10132	Nitrobenzene	98-95-3	98	J	40	120	10000000	1
10132	Nitroglycerin	55-63-0	2,100	J	800	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	110	J	80	120	10000000	1
10132	3-Nitrotoluene	99-08-1	120	J	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	120		80	120	10000000	1
10132	PETN	78-11-5	2,500		800	2,400	10000000	1
10132	RDX	121-82-4	100	J	50	120	10000000	1
10132	Tetryl	479-45-8	100	J	61	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	110	J	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	110	J	40	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	1,800		600	1,500		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3		1
10225	PCB-1016	12674-11-2	1.4	J	0.33	1.7		1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7		1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7		1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7		1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-089-SA7-SB-3.5-4.5RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437200
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7		1
10225	PCB-1260	11096-82-5	1.7		0.39	1.7		1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7		1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7		1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside of the method required holding time, and LCS/LCSD recoveries are within the QC acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extracts.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	610		100	500		1
10501	Isopropanol	67-63-0	530		100	500		1
10501	Methanol	67-56-1	600		100	500		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	J	1.5	3.5		1
10318	o-Terphenyl	84-15-1	1.7	J	1.5	3.5		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.5		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.40	U	0.40	1.2		1
10199	EFH (C15-C20)	n.a.	0.72	J	0.40	1.2		1
10199	EFH (C21-C30)	n.a.	1.3		0.40	1.2		1
10199	EFH (C30 - C40)	n.a.	2.2		0.40	1.2		1
10199	EFH (C8-C11)	n.a.	0.40	U	0.40	1.2		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10132	15a Energetics by 8330A	SW-846 8330A	1	112880015A	10/21/2011 08:55	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112910003A	10/19/2011 22:06	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112910025A	10/21/2011 11:12	Jessica L Miller	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-089-SA7-SB-3.5-4.5RL LCS Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437200
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6803 SDG#: DE268-03RLQ

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112910025A	10/19/2011 12:00	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112910003A	10/18/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880015A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112900028A	10/19/2011 00:30	Elizabeth J Marin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112920028A	10/21/2011 17:11	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112920027A	10/21/2011 04:03	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112920027A	10/20/2011 12:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	112920028A	10/20/2011 12:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112900028A	10/18/2011 17:00	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: DUP09-SA7-QC-101311 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA7-QC-101311

LLI Sample # SW 6437201
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:40

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6804 SDG#: DE268-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	18.4	U	18.4	36.9		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP09-SA7-QC-101311 Soil**
SSFL Area IV Collocated Soil Sampling
DUP09-SA7-QC-101311

LLI Sample # SW 6437201
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:40

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6804 SDG#: DE268-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	8.7		0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	14		0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	18		0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	9.0		0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	6.6		0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	10		0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	2.2		0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	28		6.7	20		1
10138	Fluoranthene	206-44-0	8.7		0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	8.3		0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	1.0	J	0.75	1.9		1
10138	Pyrene	129-00-0	8.9		0.75	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.08
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	67	U	67	130	10000000	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP09-SA7-QC-101311 Soil**
SSFL Area IV Collocated Soil Sampling
DUP09-SA7-QC-101311

LLI Sample # SW 6437201
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:40

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6804 SDG#: DE268-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	45	U	45	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	90	U	90	270	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	90	U	90	270	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	45	U	45	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	45	U	45	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	45	U	45	130	10000000	1
10132	HMX	2691-41-0	110	U	110	340	10000000	1
10132	Nitrobenzene	98-95-3	45	U	45	130	10000000	1
10132	Nitroglycerin	55-63-0	900	U	900	2,700	10000000	1
10132	2-Nitrotoluene	88-72-2	90	U	90	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	90	U	90	130	10000000	1
10132	PETN	78-11-5	900	U	900	2,700	10000000	1
10132	RDX	121-82-4	56	U	56	130	10000000	1
10132	Tetryl	479-45-8	69	U	69	130	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	45	U	45	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	45	U	45	130	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	670	U	670	1,700		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	14		1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	1.5	J	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.90	J	0.44	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP09-SA7-QC-101311 Soil**
SSFL Area IV Collocated Soil Sampling
DUP09-SA7-QC-101311

LLI Sample # SW 6437201
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:40

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6804 SDG#: DE268-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside of the method required holding time, and LCS/LCSD recoveries are within the QC acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extracts.							
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	560		1
10501	Isopropanol	67-63-0	110	U	110	560		1
10501	Methanol	67-56-1	110	U	110	560		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.6	U	5.6	11		1
08283	Ethylene glycol	107-21-1	5.6	U	5.6	11		1
08283	Propylene glycol	57-55-6	5.6	U	5.6	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.45	U	0.45	1.3		1
10199	EFH (C15-C20)	n.a.	0.63	J	0.45	1.3		1
10199	EFH (C21-C30)	n.a.	2.3		0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	6.4		0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45	U	0.45	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,800		6.58	21.8		1
07914	Boron	7440-42-8	1.17	J	0.392	5.44		1
01650	Calcium	7440-70-2	3,810		2.72	21.8		1
01654	Iron	7439-89-6	22,600		2.84	21.8		1
01656	Lithium	7439-93-2	28.7		0.67	2.2		1
01657	Magnesium	7439-95-4	6,610		0.479	10.9		1
06958	Manganese	7439-96-5	320		0.0392	0.544		1
10145	Phosphorus	7723-14-0	447		0.381	10.9		1
01662	Potassium	7440-09-7	2,440		12.2	53.9		1
01667	Sodium	7440-23-5	116		6.41	108		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP09-SA7-QC-101311 Soil**
SSFL Area IV Collocated Soil Sampling
DUP09-SA7-QC-101311

LLI Sample # SW 6437201
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:40

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6804 SDG#: DE268-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07968	Strontium	7440-24-6	13.3	0.0272	0.544		1
06969	Tin	7440-31-5	2.56 J	0.348	10.9		1
06970	Titanium	7440-32-6	1,300	0.0773	1.09		1
10146	Zirconium	7440-67-7	0.813 J	0.501	5.44		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0805 U	0.0805	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.70	0.0871	0.435		2
06126	Barium	7440-39-3	100	0.115	0.435		2
06127	Beryllium	7440-41-7	0.650	0.0174	0.109		2
06128	Cadmium	7440-43-9	0.0996 J	0.0479	0.109		2
06131	Chromium	7440-47-3	22.6	0.131	0.435		2
06132	Cobalt	7440-48-4	7.69	0.0218	0.109		2
06133	Copper	7440-50-8	10.7	0.0871	0.435		2
06135	Lead	7439-92-1	6.46	0.0111	0.218		2
06138	Molybdenum	7439-98-7	0.383	0.0544	0.109		2
06139	Nickel	7440-02-0	14.9	0.109	0.435		2
06141	Selenium	7782-49-2	0.191 J	0.0631	0.435		2
06142	Silver	7440-22-4	0.0387 J	0.0155	0.109		2
06145	Thallium	7440-28-0	0.301	0.0327	0.109		2
06148	Vanadium	7440-62-2	45.1	0.0239	0.109		2
06149	Zinc	7440-66-6	68.3	0.610	3.27		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0078 U	0.0078	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3	0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.3	0.88	1.7		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.6		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.56		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.83	0.0100	0.0100		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP09-SA7-QC-101311 Soil**
SSFL Area IV Collocated Soil Sampling
DUP09-SA7-QC-101311

LLI Sample # SW 6437201
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:40

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6804 SDG#: DE268-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	10.8	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11291SLG026	11/02/2011 00:58	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11290SLF026	10/20/2011 04:44	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11298SLA026	10/28/2011 11:13	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11291SLG026	10/19/2011 06:50	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	2	11298SLA026	10/25/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11290SLF026	10/18/2011 10:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11293A16A	10/21/2011 05:47	Laura M Krieger	24.08
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201128725853	10/14/2011 16:26	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201128725853	10/14/2011 16:27	Christopher D Meeks	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	112880015A	10/21/2011 09:37	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112910003A	10/19/2011 22:16	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112910025A	10/21/2011 11:31	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112910025A	10/19/2011 12:00	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112910003A	10/18/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880015A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112900028A	10/18/2011 21:45	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112980042A	10/25/2011 23:16	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112920028A	10/21/2011 18:40	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112920027A	10/21/2011 04:27	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112920027A	10/20/2011 12:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	112920028A	10/20/2011 12:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112900028A	10/18/2011 17:00	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **DUP09-SA7-QC-101311 Soil**
SSFL Area IV Collocated Soil Sampling
DUP09-SA7-QC-101311

LLI Sample # SW 6437201
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:40

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6804 SDG#: DE268-04FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112980042A	10/25/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112905708002	10/25/2011 03:00	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112905708002	10/25/2011 20:09	John P Hook	1
01650	Calcium	SW-846 6010B	1	112905708002	10/25/2011 03:00	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112905708002	10/25/2011 03:00	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112905708002	10/25/2011 03:00	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112905708002	10/25/2011 03:00	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112905708002	10/25/2011 03:00	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112905708002	10/25/2011 03:00	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112985708002	10/26/2011 10:49	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112985708002	10/26/2011 10:49	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112905708002	10/25/2011 03:00	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112905708002	10/25/2011 03:00	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112905708002	10/25/2011 03:00	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112905708002	10/25/2011 03:00	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112901026001A	10/18/2011 07:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112901026001A	10/18/2011 07:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112901026001D	10/18/2011 07:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112901026001A	10/18/2011 07:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112901026001A	10/18/2011 07:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112901026001A	10/18/2011 07:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112901026001A	10/18/2011 07:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112901026001A	10/18/2011 07:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112901026001A	10/18/2011 07:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112901026001C	10/18/2011 07:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112901026001A	10/18/2011 07:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112901026001B	10/18/2011 07:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112901026001A	10/18/2011 07:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112901026001A	10/18/2011 07:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112901026001A	10/18/2011 07:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112901026001A	10/18/2011 07:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112905711002	10/18/2011 09:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112905708002	10/17/2011 22:40	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112985708002	10/25/2011 22:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112901026001	10/17/2011 22:42	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112905711002	10/18/2011 02:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11298495201A	10/25/2011 18:21	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11298495201A	10/25/2011 18:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11293621201A	10/20/2011 14:27	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11292243201A	10/20/2011 16:52	Elyse P Brunstetter	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP09-SA7-QC-101311 Soil**
SSFL Area IV Collocated Soil Sampling
DUP09-SA7-QC-101311

LLI Sample # SW 6437201
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:40

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6804 SDG#: DE268-04FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05895	16a Cyanide by 9012B	SW-846 9012B	1	11293102201B	10/21/2011 08:15	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11298495201A	10/25/2011 01:45	James S Mathiot	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621201A	10/20/2011 06:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11293102201B	10/20/2011 15:35	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11299039402B	10/26/2011 15:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11292243201A	10/19/2011 09:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: EB-SA7-SB-101311 Water
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-101311

LLI Sample # WW 6437202
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:30

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6805 SDG#: DE268-05EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/l	ng/l	ng/l	ng/l	
10962	N-Nitrosodimethylamine	62-75-9	4.61	0.486	0.972		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 1.33 ng/l. The blank value was not subtracted from the analytical result. Sufficient sample was unavailable to repeat the analysis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11290WAA026	11/01/2011 17:22	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11290WAA026	10/17/2011 13:55	Wanda F Oswald	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: TB-101311 Water
SSFL Area IV Collocated Soil Sampling
TB-101311

LLI Sample # WW 6437203
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 08:00

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6807 SDG#: DE268-06TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/l	ng/l	ng/l	ng/l	
10962	N-Nitrosodimethylamine	62-75-9	1.23	0.501	1.00		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 1.33 ng/l. The blank value was not subtracted from the analytical result. Sufficient sample was unavailable to repeat the analysis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11290WAA026	11/01/2011 17:41	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11290WAA026	10/17/2011 13:55	Wanda F Oswald	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **TB-101311 Sand**
SSFL Area IV Collocated Soil Sampling
TB-101311

LLI Sample # SW 6437204
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 08:00

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6808 SDG#: DE268-07TB

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	16.6	U	16.6	33.2		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.50	U	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11291SLG026	11/02/2011 01:17	Matthew S Woods	1
11630	NDMA Soil Microwave	SW-846 3546	1	11291SLG026	10/19/2011 06:50	Katheryne V Sponheimer	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11291162401B	10/18/2011 21:20	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-101311 Water**
SSFL Area IV Collocated Soil Sampling
TB-101311

LLI Sample # WW 6437205
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 08:00

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6809 SDG#: DE268-08TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11290B20A	10/18/2011 00:42	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11290B20A	10/18/2011 00:42	Marie D John	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: EB-SA7-SB-101311 Water
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-101311

LLI Sample # WW 6437206
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:00

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6810 SDG#: DE268-09EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	4.50		0.524	1.05		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of 1.33 ng/l. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and N-Nitrosodimethylamine was again detected in the re-analysis of the sample. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	19	U	19	57		1
04678	Benzoic acid	65-85-0	6	U	6	14		1
04678	Benzyl alcohol	100-51-6	5	U	5	14		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	2-butoxy-Ethanol	111-76-2	48	U	48	48		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	14		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	29		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	14		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1

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Sample Description: **EB-SA7-SB-101311 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-101311

LLI Sample # WW 6437206
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:00

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6810 SDG#: DE268-09EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	29		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	14		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	2-phenoxy-Ethanol	122-99-6	48	U	48	48		1
04678	Tetralin	119-64-2	5	U	5	5		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.0098	U	0.0098	0.049		1
10137	Acenaphthylene	208-96-8	0.0098	U	0.0098	0.049		1
10137	Anthracene	120-12-7	0.0098	U	0.0098	0.049		1
10137	Benzo(a)anthracene	56-55-3	0.0098	U	0.0098	0.049		1
10137	Benzo(a)pyrene	50-32-8	0.0098	U	0.0098	0.049		1
10137	Benzo(b)fluoranthene	205-99-2	0.0098	U	0.0098	0.049		1
10137	Benzo(g,h,i)perylene	191-24-2	0.0098	U	0.0098	0.049		1
10137	Benzo(k)fluoranthene	207-08-9	0.0098	U	0.0098	0.049		1
10137	Butylbenzylphthalate	85-68-7	0.049	U	0.049	0.98		1
10137	Di-n-butylphthalate	84-74-2	0.19	J	0.049	0.98		1
10137	Chrysene	218-01-9	0.0098	U	0.0098	0.049		1
10137	Dibenz(a,h)anthracene	53-70-3	0.0098	U	0.0098	0.049		1
10137	Diethylphthalate	84-66-2	0.11	J	0.049	0.98		1
10137	Dimethylphthalate	131-11-3	0.049	U	0.049	0.98		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.049	U	0.049	0.98		1
10137	Fluoranthene	206-44-0	0.0098	U	0.0098	0.049		1
10137	Fluorene	86-73-7	0.0098	U	0.0098	0.049		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.0098	U	0.0098	0.049		1
10137	1-Methylnaphthalene	90-12-0	0.0098	U	0.0098	0.049		1
10137	2-Methylnaphthalene	91-57-6	0.0098	U	0.0098	0.049		1
10137	Naphthalene	91-20-3	0.060		0.029	0.049		1
10137	N-Nitrosodimethylamine	62-75-9	0.0098	U	0.0098	0.049		1
10137	Di-n-octylphthalate	117-84-0	0.049	U	0.049	0.98		1
10137	Phenanthrene	85-01-8	0.029	U	0.029	0.049		1
10137	Pyrene	129-00-0	0.0098	U	0.0098	0.049		1
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	

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Sample Description: **EB-SA7-SB-101311 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-101311

LLI Sample # WW 6437206
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:00

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6810 SDG#: DE268-09EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/l		ug/l	ug/l	ug/l	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	1.7		0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
HPLC Organics	**SW-846 8315A**		ug/l		ug/l	ug/l	ug/l	
04144	20b Formaldehyde 8315A	50-00-0	10	U	10	50		1
Pesticides/PCBs	**SW-846 8082**		ug/l		ug/l	ug/l	ug/l	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.50		1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.50		1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.50		1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.50		1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.50		1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.50		1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.50		1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.50		1

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Sample Description: **EB-SA7-SB-101311 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-101311

LLI Sample # WW 6437206
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:00

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6810 SDG#: DE268-09EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	PCB-1254	11097-69-1	0.10	U	0.10	0.50		1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.50		1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.50		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.50		1
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	20	U	20	200		1
08278	Ethylene glycol	107-21-1	20	U	20	200		1
08278	Propylene glycol	57-55-6	20	U	20	200		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.081	U	0.081	0.25		1
10319	o-Terphenyl	84-15-1	0.081	U	0.081	0.25		1
10319	p-Terphenyl	92-94-4	0.081	U	0.081	0.25		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.10	U	0.10	0.61		1
10365	EFH (C15-C20)	n.a.	0.10	U	0.10	0.61		1
10365	EFH (C21-C30)	n.a.	0.10	U	0.10	0.61		1
10365	EFH (C30 - C40)	n.a.	0.10	U	0.10	0.61		1
10365	EFH (C8-C11)	n.a.	0.10	U	0.10	0.61		1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0801	U	0.0801	0.200		1
08014	Boron	7440-42-8	0.0068	J	0.0022	0.0500		1
01750	Calcium	7440-70-2	0.0705	U	0.0705	0.200		1
01754	Iron	7439-89-6	0.0141	U	0.0141	0.200		1
01756	Lithium	7439-93-2	0.0076	U	0.0076	0.0200		1
01757	Magnesium	7439-95-4	0.0067	U	0.0067	0.100		1
07058	Manganese	7439-96-5	0.00044	U	0.00044	0.0050		1
10143	Phosphorus	7723-14-0	0.0047	U	0.0047	0.100		1
01762	Potassium	7440-09-7	0.0874	U	0.0874	0.500		1
01767	Sodium	7440-23-5	0.0647	U	0.0647	1.00		1
08068	Strontium	7440-24-6	0.00051	J	0.00022	0.0050		1
07069	Tin	7440-31-5	0.0043	U	0.0043	0.0200		1
07070	Titanium	7440-32-6	0.00046	U	0.00046	0.0100		1
10144	Zirconium	7440-67-7	0.0042	U	0.0042	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	

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Sample Description: **EB-SA7-SB-101311 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-101311

LLI Sample # WW 6437206
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:00

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6810 SDG#: DE268-09EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00042 U	0.00042	0.0010		1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00069 U	0.00069	0.0020		1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000089 J	0.000080	0.0010		1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00027 U	0.00027	0.0020		1
06042	Silver	7440-22-4	0.000098 U	0.000098	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00018 U	0.00018	0.00050		1
06049	Zinc	7440-66-6	0.0056 J	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000026 U	0.000026	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050 U	0.050	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9012B		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
08255	16b Cyanide by 9012B	57-12-5	0.0050 U	0.0050	0.010		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	17b pH by 9040B	n.a.	5.5	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: EB-SA7-SB-101311 Water
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-101311

LLI Sample # WW 6437206
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:00

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6810 SDG#: DE268-09EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11290WAA026	11/01/2011 18:00	Matthew S Woods	1
04678	5b Semivolatiles by 8270C	SW-846 8270C	1	11290WAB026	10/18/2011 08:08	Brian K Graham	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11290WAJ026	10/21/2011 12:26	Joseph M Gambler	1
00813	BNA Water Extraction	SW-846 3510C	1	11290WAB026	10/17/2011 17:30	Nicholas W Shroyer	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11290WAJ026	10/18/2011 12:00	Olivia I Santiago	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11290WAA026	10/17/2011 13:55	Wanda F Oswald	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11290B20A	10/18/2011 01:04	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11290B20A	10/18/2011 01:04	Marie D John	1
10131	15b Energetics by 8330A	SW-846 8330A	1	112900016A	10/20/2011 08:09	James H Place	1
04144	20b Formaldehyde 8315A	SW-846 8315A	1	112880004A	10/17/2011 14:57	James H Place	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	112900011A	10/20/2011 15:10	Jessica L Miller	1
11117	PCB Waters Extraction	SW-846 3510C	1	112900011A	10/18/2011 02:30	Sherry L Morrow	1
01013	Formaldehyde Extraction	SW-846 8315A	1	112880004A	10/16/2011 08:30	Olivia Arosemena	1
11122	Energetics Extraction	SW-846 8330	1	112900016A	10/18/2011 16:45	Kelli M Barto	1
06624	18b Alcohols by 8015B	SW-846 8015B	1	112870020A	10/14/2011 21:07	Elizabeth J Marin	1
08278	19b Glycols by 8015B	SW-846 8015B modified	1	112910030A	10/18/2011 21:45	Tyler O Griffin	1
10319	22b Terphenyls by 8015B	SW-846 8015B	1	112880013A	10/21/2011 13:30	Robert Brown	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112900022A	10/20/2011 19:15	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	112900022A	10/18/2011 08:45	Catherine R Wiker	1
10304	Terphenyls water prep	SW-846 3510C	1	112880013A	10/17/2011 10:00	Catherine R Wiker	1
01743	Aluminum	SW-846 6010B	1	112901848006	10/21/2011 07:57	Tara L Snyder	1
08014	Boron	SW-846 6010B	1	112901848006	10/21/2011 07:57	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	112901848006	10/21/2011 07:57	Tara L Snyder	1
01754	Iron	SW-846 6010B	1	112901848006	10/21/2011 07:57	Tara L Snyder	1
01756	Lithium	SW-846 6010B	1	112901848006	10/21/2011 07:57	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	112901848006	10/21/2011 07:57	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	112901848006	10/21/2011 07:57	Tara L Snyder	1
10143	Phosphorus	SW-846 6010B	1	112901848006	10/21/2011 07:57	Tara L Snyder	1
01762	Potassium	SW-846 6010B	1	112901848006	10/21/2011 07:57	Tara L Snyder	1
01767	Sodium	SW-846 6010B	1	112901848006	10/21/2011 07:57	Tara L Snyder	1
08068	Strontium	SW-846 6010B	1	112901848006	10/21/2011 07:57	Tara L Snyder	1
07069	Tin	SW-846 6010B	1	112901848006	10/21/2011 07:57	Tara L Snyder	1
07070	Titanium	SW-846 6010B	1	112901848006	10/21/2011 07:57	Tara L Snyder	1
10144	Zirconium	SW-846 6010B	1	112901848006	10/21/2011 07:57	Tara L Snyder	1
06024	Antimony	SW-846 6020	1	112906050003A	10/20/2011 04:35	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	112906050003A	10/20/2011 04:35	Choon Y Tian	1
06026	Barium	SW-846 6020	1	112906050003D	10/20/2011 04:35	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	112906050003A	10/20/2011 04:35	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	112906050003A	10/20/2011 04:35	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	112906050003A	10/20/2011 04:35	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	112906050003A	10/20/2011 04:35	Choon Y Tian	1
06033	Copper	SW-846 6020	1	112906050003A	10/20/2011 04:35	Choon Y Tian	1
06035	Lead	SW-846 6020	1	112906050003A	10/20/2011 04:35	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	112906050003C	10/20/2011 04:35	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	112906050003A	10/20/2011 04:35	Choon Y Tian	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB-SA7-SB-101311 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-101311

LLI Sample # WW 6437206
LLI Group # 1271284
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:00

Submitted: 10/14/2011 09:15
Reported: 11/18/2011 09:28

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6810 SDG#: DE268-09EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06041	Selenium	SW-846 6020	1	112906050003B	10/20/2011 04:35	Choon Y Tian	1
06042	Silver	SW-846 6020	1	112906050003A	10/20/2011 04:35	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	112906050003A	10/20/2011 04:35	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	112906050003A	10/20/2011 04:35	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	112906050003A	10/20/2011 04:35	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	112915713004	10/19/2011 09:12	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	112901848006	10/18/2011 12:00	James L Mertz	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	112906050003	10/18/2011 12:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	112915713004	10/18/2011 14:32	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11287196902B	10/14/2011 22:24	Ashley M Adams	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11287196902B	10/14/2011 22:24	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	2	11288281101A	10/18/2011 16:56	Elyse P Brunstetter	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11287281401A	10/14/2011 11:59	Elyse P Brunstetter	1
08255	16b Cyanide by 9012B	SW-846 9012B	1	11294117101B	10/23/2011 11:06	Joseph E McKenzie	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11294117101B	10/21/2011 15:55	Carolyn M Mastropietro	1
00200	17b pH by 9040B	SW-846 9040B	1	11287020001A	10/14/2011 21:00	Luz M Groff	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271284
Reported: 11/18/11 at 09:28 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11290SLF026	Sample number(s): 6437193-6437197,6437201									
Acenaphthene	17	U	17.	170	ug/kg	95		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	102		75-122		
Aniline	170 U		170.	500	ug/kg	84		20-115		
Anthracene	17	U	17.	170	ug/kg	98		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	49		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	103		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	102		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	103		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	98		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	98		67-125		
Benzoic acid	170 U		170.	500	ug/kg	93		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	100		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	103		73-114		
Butylbenzylphthalate	17	U	17.	170	ug/kg	95		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	96		79-112		
Carbazole	17	U	17.	170	ug/kg	94		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	106		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	57		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	105		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	101		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	100		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	74		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	101		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	100		74-115		
Chrysene	17	U	17.	170	ug/kg	98		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	105		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	95		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	86		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	86		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	87		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	56		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	104		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	96		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	106		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	116		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	98		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	83		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	63		18-133		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271284
Reported: 11/18/11 at 09:28 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	104		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	103		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	106		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	99		75-117		
Fluoranthene	17	U	17.	170	ug/kg	101		78-116		
Fluorene	17	U	17.	170	ug/kg	98		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	102		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	98		65-117		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	102		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	89		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	103		64-119		
Isophorone	17	U	17.	170	ug/kg	108		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	94		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	96		69-109		
2-Methylphenol	33	U	33.	170	ug/kg	103		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	102		66-117		
Naphthalene	17	U	17.	170	ug/kg	95		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	102		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	96		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	73		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	107		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	103		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	87		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	98		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	97		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	99		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	102		62-137		
Pentachlorophenol	170	U	170.	500	ug/kg	95		51-117		
Phenanthrene	17	U	17.	170	ug/kg	94		77-113		
Phenol	17	U	17.	170	ug/kg	106		58-112		
Pyrene	17	U	17.	170	ug/kg	96		75-115		
Tetralin	170	U	170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	96		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	104		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	105		78-111		
Batch number: 11290WAA026	Sample number(s): 6437202-6437203,6437206									
N-Nitrosodimethylamine	1.33		0.500	1.00	ng/l	101	107	70-130	6	30
Batch number: 11290WAB026	Sample number(s): 6437206									
Aniline	1	U	1.	5	ug/l	77	83	38-116	8	30
Benzidine	20	U	20.	60	ug/l	62	62	34-117	0	30
Benzoic acid	6	U	6.	15	ug/l	24	21	10-69	11	30
Benzyl alcohol	5	U	5.	15	ug/l	79	91	66-97	14	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	101	103	75-115	2	30
2-butoxy-Ethanol	50	U	50.	50	ug/l					
Carbazole	1	U	1.	5	ug/l	99	103	75-120	4	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	103	109	70-123	6	30
4-Chloroaniline	1	U	1.	5	ug/l	67	70	24-128	5	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	104	109	74-124	5	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	101	108	77-108	7	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	98	106	62-127	8	30
2-Chloronaphthalene	2	U	2.	5	ug/l	73	81	54-132	11	30
2-Chlorophenol	1	U	1.	5	ug/l	94	100	71-114	7	30

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271284
Reported: 11/18/11 at 09:28 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	101	106	77-114	5	30
Dibenzofuran	1	U	1.	5	ug/l	96	101	75-117	4	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	87	97	55-118	10	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	88	97	61-111	9	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	88	96	53-119	9	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	70	72	37-117	2	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	102	109	77-117	7	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	102	107	72-110	4	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	108	113	70-130	5	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	98	102	65-126	4	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	93	99	52-131	6	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	108	113	76-119	5	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	104	111	76-118	6	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	100	103	68-127	4	30
Hexachlorobenzene	1	U	1.	5	ug/l	105	107	75-119	2	30
Hexachlorobutadiene	1	U	1.	5	ug/l	96	104	57-124	8	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	84	90	36-118	6	30
Hexachloroethane	1	U	1.	5	ug/l	86	95	52-113	10	30
Isophorone	1	U	1.	5	ug/l	107	113	74-117	6	30
2-Methylphenol	1	U	1.	5	ug/l	86	94	58-110	9	30
4-Methylphenol	2	U	2.	5	ug/l	77	85	49-108	10	30
2-Nitroaniline	1	U	1.	5	ug/l	104	111	75-120	7	30
3-Nitroaniline	1	U	1.	5	ug/l	99	104	74-113	5	30
4-Nitroaniline	1	U	1.	5	ug/l	84	89	59-100	5	30
Nitrobenzene	1	U	1.	5	ug/l	108	114*	75-109	5	30
2-Nitrophenol	1	U	1.	5	ug/l	106	111	76-118	4	30
4-Nitrophenol	10	U	10.	30	ug/l	40	46	16-78	14	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	100	108	69-110	8	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	94	97	67-136	3	30
Pentachlorophenol	3	U	3.	15	ug/l	107	112*	53-110	5	30
Phenol	1	U	1.	5	ug/l	38	49	21-67	25	30
2-phenoxy-Ethanol	50	U	50.	50	ug/l					
Tetralin	5	U	5.	5	ug/l					
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	96	103	71-112	7	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	103	109*	79-107	6	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	103	110	76-120	7	30
Batch number: 11290WAJ026	Sample number(s): 6437206									
Acenaphthene	0.010	U	0.010	0.050	ug/l	98	97	74-109	2	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	97	95	70-110	2	30
Anthracene	0.010	U	0.010	0.050	ug/l	99	100	66-111	1	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	101	102	72-114	0	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	95	95	60-127	0	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	98	99	58-151	1	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	108	108	57-131	0	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	99	99	59-130	0	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	77	78	40-138	1	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	84	85	56-148	1	30
Chrysene	0.010	U	0.010	0.050	ug/l	105	105	76-116	0	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	109	110	55-134	0	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	91	92	37-148	1	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	86	86	40-119	0	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	102	102	57-154	0	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	104	106	75-116	2	30
Fluorene	0.010	U	0.010	0.050	ug/l	105	103	75-114	2	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	108	108	53-158	0	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	93	94	71-117	0	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	92	92	75-115	0	30

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271284
Reported: 11/18/11 at 09:28 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Naphthalene	0.030	U	0.030	0.050	ug/l	95	95	72-109	0	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	70	65	36-89	8	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	87	87	57-145	1	30
Phenanthrene	0.030	U	0.030	0.050	ug/l	98	99	76-111	1	30
Pyrene	0.010	U	0.010	0.050	ug/l	92	91	69-118	0	30
Batch number: 11291SLG026	Sample number(s): 6437193-6437197,6437201,6437204									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	105		70-130		
Batch number: 11298SLA026	Sample number(s): 6437193-6437197,6437201									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	102		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	94		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	100		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	99		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	98		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	104		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	100		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	103		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	110		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	124		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	101		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	104		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	110		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	105		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	129		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	102		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	103		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	102		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	91		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	95		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	94		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	110		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	96		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	99		72-119		
Batch number: 11290B20A	Sample number(s): 6437205-6437206									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	100	91	75-135	10	30
Batch number: 11293A16A	Sample number(s): 6437193-6437197,6437201									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	76		67-119		
Batch number: 112880015A	Sample number(s): 6437193-6437197,6437199-6437201									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	109		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	106		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	87	90	54-134	4	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	86	90	54-134	4	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	110		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	101		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	106		80-120		
HMX	100 U		100.	300	ug/kg	93		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	106		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	90		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	101		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	108		73-127		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271284
Reported: 11/18/11 at 09:28 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Nitrotoluene	80	U	80.	120	ug/kg	101		80-120		
PETN	800 U		800.	2,400	ug/kg	104		80-120		
RDX	50	U	50.	120	ug/kg	102		75-131		
Tetryl	61	U	61.	120	ug/kg	96		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	104		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	108		80-120		
Batch number: 112900016A	Sample number(s): 6437206									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	99	93	80-120	6	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	94	88	80-120	7	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	80	83	50-122	4	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	80	83	50-122	4	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	100	96	72-117	4	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	93	89	80-120	4	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	97	80-120	3	30
HMX	0.65	U	0.65	2.0	ug/l	87	82	65-125	6	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	92	88	75-121	4	30
Nitroglycerin	5.2	U	5.2	15	ug/l	92	88	80-120	5	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	93	88	74-120	6	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	98	94	69-107	4	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	93	88	80-120	6	30
PETN	6.0	U	6.0	18	ug/l	96	96	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	88	82	70-125	7	30
Tetryl	0.40	U	0.40	0.60	ug/l	92	86	31-148	7	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	88	82	53-129	7	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	98	93	76-109	5	30
Batch number: 112880004A	Sample number(s): 6437206									
20b Formaldehyde 8315A	10	U	10.	50	ug/l	96	104	69-130	8	30
Batch number: 112910003A	Sample number(s): 6437193-6437197,6437199-6437201									
20a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	91		80-126		
Batch number: 112900011A	Sample number(s): 6437206									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	76	74	35-84	3	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	84	90	51-128	7	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	94	102	56-135	8	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 112910025A	Sample number(s): 6437193-6437197,6437199-6437201									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	69	66	36-106	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	67*		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271284
Reported: 11/18/11 at 09:28 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	85		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112870020A	Sample number(s): 6437206									
Ethanol	200 U		200.	1,000	ug/l	96		78-116		
Isopropanol	200 U		200.	1,000	ug/l	96		75-125		
Methanol	200 U		200.	1,000	ug/l	96		76-122		
Batch number: 112900028A	Sample number(s): 6437193-6437197,6437199-6437201									
Ethanol	100 U		100.	500	ug/kg	89		71-129		
Isopropanol	100 U		100.	500	ug/kg	86		75-125		
Methanol	100 U		100.	500	ug/kg	90		68-129		
Batch number: 112910030A	Sample number(s): 6437206									
Diethylene glycol	20	U	20.	200	mg/l	120		67-126		
Ethylene glycol	20	U	20.	200	mg/l	137*		78-136		
Propylene glycol	20	U	20.	200	mg/l	140*		65-132		
Batch number: 112980042A	Sample number(s): 6437193-6437197,6437201									
Diethylene glycol	5.0	U	5.0	10	mg/kg	100		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	106		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	99		67-131		
Batch number: 112880013A	Sample number(s): 6437206									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	98	102	61-108	4	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	102	104	75-125	2	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	98	102	63-110	4	20
Batch number: 112900022A	Sample number(s): 6437206									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	88	86	63-121	2	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	93	95	72-124	1	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	92	73	64-123	23	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	73	80	73-124	9	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	76	74	43-107	3	30
Batch number: 112920027A	Sample number(s): 6437193-6437197,6437199-6437201									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	94		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	96		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	97		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	85		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	83		49-107		
Batch number: 112920028A	Sample number(s): 6437193-6437197,6437199-6437201									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	100		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	105		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	98		69-109		
Batch number: 112901026001A	Sample number(s): 6437193-6437198,6437201									
Antimony	0.0740	U	0.0740	0.200	mg/kg	134		40-227		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	101		83-111		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271284
Reported: 11/18/11 at 09:28 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Beryllium	0.0160 U	0.0160	0.100	mg/kg	102		84-112		
Cadmium	0.0440 U	0.0440	0.100	mg/kg	105		83-111		
Chromium	0.120 U	0.120	0.400	mg/kg	111		77-123		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	108		85-114		
Copper	0.0800 U	0.0800	0.400	mg/kg	104		81-110		
Lead	0.0102 U	0.0102	0.200	mg/kg	104		84-112		
Nickel	0.100 U	0.100	0.400	mg/kg	104		81-110		
Silver	0.0142 U	0.0142	0.100	mg/kg	102		83-112		
Thallium	0.0300 U	0.0300	0.100	mg/kg	103		82-112		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	103		76-110		
Zinc	0.560 U	0.560	3.00	mg/kg	101		82-110		
Batch number: 112901026001B	Sample number(s): 6437193-6437198,6437201								
Selenium	0.0580 U	0.0580	0.400	mg/kg	102		79-110		
Batch number: 112901026001C	Sample number(s): 6437193-6437198,6437201								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	105		80-110		
Batch number: 112901026001D	Sample number(s): 6437193-6437198,6437201								
Barium	0.106 U	0.106	0.400	mg/kg	102		83-110		
Batch number: 112901848006	Sample number(s): 6437206								
Aluminum	0.0801 U	0.0801	0.200	mg/l	102	102	90-112	0	20
Boron	0.0046 J	0.0022	0.0500	mg/l	92	96	89-110	4	20
Calcium	0.0705 U	0.0705	0.200	mg/l	101	100	90-110	1	20
Iron	0.0141 U	0.0141	0.200	mg/l	102	101	90-112	1	20
Lithium	0.0076 U	0.0076	0.0200	mg/l	96	97	90-110	2	20
Magnesium	0.0067 U	0.0067	0.100	mg/l	100	98	90-110	1	20
Manganese	0.00044 U	0.00044	0.0050	mg/l	102	101	90-110	1	20
Phosphorus	0.0047 U	0.0047	0.100	mg/l	101	100	90-110	1	20
Potassium	0.0874 U	0.0874	0.500	mg/l	96	93	85-115	3	20
Sodium	0.0647 U	0.0647	1.00	mg/l	96	95	87-114	0	20
Strontium	0.00022 U	0.00022	0.0050	mg/l	99	99	90-110	0	20
Tin	0.0043 U	0.0043	0.0200	mg/l	102	102	90-110	0	20
Titanium	0.00046 U	0.00046	0.0100	mg/l	102	102	90-113	0	20
Zirconium	0.0093 J	0.0042	0.0500	mg/l	101	103	90-110	3	20
Batch number: 112905708002	Sample number(s): 6437193-6437198,6437201								
Aluminum	6.05 U	6.05	20.0	mg/kg	99		40-127		
Boron	0.360 U	0.360	5.00	mg/kg	103		83-110		
Calcium	6.41 J	2.50	20.0	mg/kg	106		81-110		
Iron	2.61 U	2.61	20.0	mg/kg	101		47-129		
Lithium	0.62 U	0.62	2.0	mg/kg	102		80-120		
Magnesium	0.440 U	0.440	10.0	mg/kg	102		63-116		
Manganese	0.0360 U	0.0360	0.500	mg/kg	104		85-116		
Phosphorus	1.73 J	0.350	10.0	mg/kg	107		80-120		
Strontium	0.0510 J	0.0250	0.500	mg/kg	107		84-110		
Tin	1.44 J	0.320	10.0	mg/kg	104		86-120		
Titanium	0.0710 U	0.0710	1.00	mg/kg	93		80-120		
Zirconium	0.460 U	0.460	5.00	mg/kg	104		80-120		
Batch number: 112905711002	Sample number(s): 6437193-6437198,6437201								
Mercury	0.0070 U	0.0070	0.100	mg/kg	105		83-119		
Batch number: 112906050003A	Sample number(s): 6437206								
Antimony	0.00042 U	0.00042	0.0010	mg/l	110	106	87-110	4	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	108	101	86-111	7	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	103	102	90-113	1	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271284
Reported: 11/18/11 at 09:28 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Cadmium	0.00020 U	0.00020	0.00050	mg/l	109	102	90-114	7	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	99	102	90-118	2	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	101	102	87-113	1	20
Copper	0.00038 U	0.00038	0.0020	mg/l	102	103	90-113	1	20
Lead	0.000080 U	0.00008 0	0.0010	mg/l	100	101	90-115	1	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	99	104	90-113	5	20
Silver	0.000098 U	0.00009 8	0.00050	mg/l	101	102	90-115	2	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	94	98	89-116	4	20
Vanadium	0.00018 U	0.00018	0.00050	mg/l	99	99	89-116	0	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	102	101	90-116	1	20
Batch number: 112906050003B	Sample number(s): 6437206								
Selenium	0.00027 U	0.00027	0.0020	mg/l	107	102	85-114	4	20
Batch number: 112906050003C	Sample number(s): 6437206								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	98	99	89-115	1	20
Batch number: 112906050003D	Sample number(s): 6437206								
Barium	0.00069 U	0.00069	0.0020	mg/l	99	98	88-113	1	20
Batch number: 112915713004	Sample number(s): 6437206								
Mercury	0.000026 U	0.00002 6	0.00020	mg/l	101	104	80-120	3	20
Batch number: 112985708002	Sample number(s): 6437193-6437198,6437201								
Potassium	11.3 U	11.3	50.0	mg/kg	100		71-110		
Sodium	5.95 U	5.95	100	mg/kg	101		76-110		
Batch number: 11287196902B	Sample number(s): 6437206								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	96	96	90-110	0	20
11b Anions by 300.0 - Nitrate	0.050 U	0.050	0.10	mg/l	98	97	90-110	1	20
Batch number: 11287281401A	Sample number(s): 6437206								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	109	101	90-110	7	20
Batch number: 11288281101A	Sample number(s): 6437206								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	98	103	85-115	5	20
Batch number: 11291243201A	Sample number(s): 6437193-6437194								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	81		80-120		
Batch number: 11292243201A	Sample number(s): 6437195-6437196,6437198,6437201								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	81		80-120		
Batch number: 11293102201A	Sample number(s): 6437193-6437194								
16a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	85		80-120		
Batch number: 11293102201B	Sample number(s): 6437195-6437196,6437198,6437201								
16a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	85		80-120		
Batch number: 11293621201A	Sample number(s): 6437193-6437196,6437198,6437201								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	108		85-115		
Batch number: 11294117101B	Sample number(s): 6437206								
16b Cyanide by 9012B	0.0050 U	0.0050	0.010	mg/l	91	90	90-110	1	20

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Quality Control Summary

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11298495201A	Sample number(s): 6437193-6437196,6437198,6437201									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	101		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	102		90-110		
Batch number: 11287020001A	Sample number(s): 6437206									
17b pH by 9040B						100	100	90-110	0	3
Batch number: 11299039402B	Sample number(s): 6437193-6437195,6437198,6437201									
17a pH by 9045C						100		95-105		
Batch number: 11291162401B	Sample number(s): 6437204									
Moisture Content by 160.3						100		80-120		
Batch number: 11298162401B	Sample number(s): 6437193-6437199,6437201									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11290SLF026	Sample number(s): 6437193-6437197,6437201 UNSPK: 6437195								
Acenaphthene	101	103	75-115	2	30				
Acenaphthylene	107	110	81-110	2	30				
Aniline	88	84	18-116	4	30				
Anthracene	101	103	75-115	1	30				
Benzidine	47	41	35-141	15	30				
Benzo(a)anthracene	99	100	65-122	1	30				
Benzo(a)pyrene	104	105	57-126	1	30				
Benzo(b)fluoranthene	112	111	59-125	1	30				
Benzo(g,h,i)perylene	106	105	59-127	1	30				
Benzo(k)fluoranthene	94	95	56-132	1	30				
Benzoic acid	64	39	10-173	49*	30				
Benzyl alcohol	104	105	67-115	1	30				
4-Bromophenyl-phenylether	106	110	67-129	3	30				
Butylbenzylphthalate	100	100	73-134	0	30				
Di-n-butylphthalate	98	99	67-123	1	30				
Carbazole	97	98	64-120	1	30				
4-Chloro-3-methylphenol	107	103	62-122	4	30				
4-Chloroaniline	70	70	13-107	0	30				
bis(2-Chloroethoxy)methane	108*	109*	75-104	0	30				
bis(2-Chloroethyl)ether	106	106	60-116	0	30				
bis(2-Chloroisopropyl)ether	105	105	55-142	0	30				
2-Chloronaphthalene	79	79	50-141	0	30				
2-Chlorophenol	103	105	73-121	1	30				
4-Chlorophenyl-phenylether	104	107	80-109	3	30				
Chrysene	97	98	62-128	1	30				
Dibenz(a,h)anthracene	111	111	65-125	1	30				
Dibenzofuran	99	101	71-112	1	30				
1,2-Dichlorobenzene	89	88	66-108	1	30				

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Quality Control Summary

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Reported: 11/18/11 at 09:28 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,3-Dichlorobenzene	88	85	63-109	3	30				
1,4-Dichlorobenzene	88	87	58-108	2	30				
3,3'-Dichlorobenzidine	75	72	28-109	5	30				
2,4-Dichlorophenol	106	106	66-123	0	30				
Diethylphthalate	97	98	66-118	1	30				
2,4-Dimethylphenol	107	107	68-118	0	30				
3,5-Dimethylphenol	0*	0*	71-127	0	30				
Dimethylphthalate	100	102	64-118	2	30				
4,6-Dinitro-2-methylphenol	35	21	11-126	49*	30				
2,4-Dinitrophenol	31	32	20-143	1	30				
2,4-Dinitrotoluene	99	99	56-129	0	30				
2,6-Dinitrotoluene	102	106	69-123	3	30				
1,2-Diphenylhydrazine	112	115	71-129	3	30				
bis(2-Ethylhexyl)phthalate	104	104	63-122	0	30				
Fluoranthene	102	103	73-112	0	30				
Fluorene	101	102	63-121	1	30				
Hexachlorobenzene	107	109	77-114	2	30				
Hexachlorobutadiene	101	100	62-120	1	30				
Hexachlorocyclopentadiene	50	68	10-153	30	30				
Hexachloroethane	88	87	57-109	1	30				
Indeno(1,2,3-cd)pyrene	108	108	61-126	0	30				
Isophorone	109*	110*	73-102	1	30				
1-Methylnaphthalene	95	95	64-122	1	30				
2-Methylnaphthalene	99	98	76-114	2	30				
2-Methylphenol	105	106	75-111	1	30				
4-Methylphenol	105	105	59-123	0	30				
Naphthalene	99	98	72-116	1	30				
2-Nitroaniline	109	111	67-125	1	30				
3-Nitroaniline	99	98	59-122	1	30				
4-Nitroaniline	81	80	41-109	1	30				
Nitrobenzene	111	111	57-125	0	30				
2-Nitrophenol	105	102	56-127	3	30				
4-Nitrophenol	84	80	37-129	5	30				
N-Nitroso-di-n-propylamine	102	104	60-116	1	30				
N-Nitrosodimethylamine	110	114	47-116	4	30				
N-Nitrosodiphenylamine	103	105	71-122	2	30				
Di-n-octylphthalate	114	113	56-126	0	30				
Pentachlorophenol	78	58	28-127	31*	30				
Phenanthrene	97	98	65-125	1	30				
Phenol	103	105	58-126	2	30				
Pyrene	98	100	74-126	2	30				
1,2,4-Trichlorobenzene	100	99	72-115	1	30				
2,4,5-Trichlorophenol	105	106	58-129	0	30				
2,4,6-Trichlorophenol	109	108	56-134	2	30				
Batch number: 11291SLG026	Sample number(s): 6437193-6437197,6437201,6437204 UNSPK: 6437195								
N-Nitrosodimethylamine	97	95	70-130	2	30				
Batch number: 11298SLA026	Sample number(s): 6437193-6437197,6437201 UNSPK: 6437195								
Acenaphthene	93	100	63-105	7	30				
Acenaphthylene	90	97	67-114	7	30				
Anthracene	94	102	73-115	8	30				
Benzo(a)anthracene	95	101	59-128	6	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271284
Reported: 11/18/11 at 09:28 AM

Sample Matrix Quality Control

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Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(a)pyrene	93	99	58-142	6	30				
Benzo(b)fluoranthene	98	105	54-163	7	30				
Benzo(g,h,i)perylene	78	85	33-141	9	30				
Benzo(k)fluoranthene	97	103	57-153	5	30				
Butylbenzylphthalate	107	120	57-173	11	30				
Di-n-butylphthalate	112	159*	65-148	34*	30				
Chrysene	94	101	67-123	7	30				
Dibenz(a,h)anthracene	85	94	22-133	10	30				
Diethylphthalate	102	126	70-136	21	30				
Dimethylphthalate	100	107	74-118	7	30				
Bis(2-Ethylhexyl)phthalate	119	100	39-167	13	30				
Fluoranthene	97	104	51-149	7	30				
Fluorene	97	104	66-122	7	30				
Indeno(1,2,3-cd)pyrene	84	92	21-143	9	30				
1-Methylnaphthalene	87	94	72-123	8	30				
2-Methylnaphthalene	85	92	64-103	7	30				
Naphthalene	90	95	61-102	5	30				
N-Nitrosodimethylamine	88	94	48-113	7	30				
Di-n-octylphthalate	139	113	40-192	21	30				
Phenanthrene	90	98	62-122	8	30				
Pyrene	94	100	51-131	6	30				
Batch number: 11293A16A	Sample number(s): 6437193-6437197,6437201 UNSPK: 6437195								
9a TPH by EPA 8015B Gas C5-C12	77	76	39-118	9	30				
Batch number: 112880015A	Sample number(s): 6437193-6437197,6437199-6437201 UNSPK: 6437195								
4-Amino-2,6-Dinitrotoluene	107	110	80-127	3	50				
2-Amino-4,6-Dinitrotoluene	104	107	80-137	2	50				
1,3-Dinitrobenzene	108	110	38-166	2	50				
2,4-Dinitrotoluene	98	102	80-131	3	50				
2,6-Dinitrotoluene	104	108	80-127	3	50				
HMX	92	93	63-128	1	50				
Nitrobenzene	102	105	80-125	4	50				
Nitroglycerin	99	99	80-120	0	50				
2-Nitrotoluene	99	103	80-122	4	50				
3-Nitrotoluene	105	109	72-119	3	50				
4-Nitrotoluene	99	102	80-125	3	50				
PETN	106	108	80-121	2	50				
RDX	98	99	75-129	1	50				
Tetryl	89	86	55-174	4	50				
1,3,5-Trinitrobenzene	99	101	82-126	2	50				
2,4,6-Trinitrotoluene	104	107	82-130	3	50				
Batch number: 112910003A	Sample number(s): 6437193-6437197,6437199-6437201 UNSPK: 6437195								
20a Formaldehyde 8315A	98	104	80-120	6	50				
Batch number: 112910025A	Sample number(s): 6437193-6437197,6437199-6437201 UNSPK: 6437195								
PCB-1016	65	65	29-146	0	50				
PCB-1260	79	84	39-149	7	50				
Batch number: 112870020A	Sample number(s): 6437206 UNSPK: P434238								
Ethanol	94	98	62-145	4	20				
Isopropanol	100	100	73-131	0	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271284
Reported: 11/18/11 at 09:28 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Methanol	80	96	52-159	16	20				
Batch number: 112900028A	Sample number(s): 6437193-6437197,6437199-6437201 UNSPK: 6437195								
Ethanol	75	73	48-130	2	20				
Isopropanol	72	71	12-149	1	20				
Methanol	75	72	43-138	3	20				
Batch number: 112910030A	Sample number(s): 6437206 UNSPK: P435702								
Diethylene glycol	120	125	83-130	4	20				
Ethylene glycol	137*	137*	89-125	0	20				
Propylene glycol	135*	135*	91-128	0	20				
Batch number: 112980042A	Sample number(s): 6437193-6437197,6437201 UNSPK: 6437195								
Diethylene glycol	47*	48*	59-109	3	20				
Ethylene glycol	75	75	63-107	1	20				
Propylene glycol	77	78	63-107	0	20				
Batch number: 112920027A	Sample number(s): 6437193-6437197,6437199-6437201 UNSPK: 6437195								
EFH (C12-C14)	82	89	49-123	8	20				
EFH (C15-C20)	81	98	49-123	13	20				
EFH (C21-C30)	102	117	49-123	7	20				
EFH (C30 - C40)	110	138*	49-123	8	20				
EFH (C8-C11)	0*	5*	49-123	10	20				
Batch number: 112920028A	Sample number(s): 6437193-6437197,6437199-6437201 UNSPK: 6437195								
m-Terphenyl	97	98	75-125	2	20				
o-Terphenyl	102	103	75-125	1	20				
p-Terphenyl	95	97	75-125	2	20				
Batch number: 112901026001A	Sample number(s): 6437193-6437198,6437201 UNSPK: 6437195 BKG: 6437195								
Antimony	39*	43*	75-125	8	20	0.135 J	0.126 J	7 (1)	20
Arsenic	101	108	75-125	3	20	3.78	3.79	0	20
Beryllium	91	102	75-125	8	20	0.484	0.538	11 (1)	20
Cadmium	111	108	75-125	2	20	0.0714 J	0.0880 J	21* (1)	20
Chromium	95	120	75-125	9	20	17.3	20.5	17	20
Cobalt	105	108	75-125	3	20	5.76	6.25	8	20
Copper	107	116	75-125	5	20	8.35	10.0	18	20
Lead	119	146*	75-125	10	20	4.54	5.21	14	20
Nickel	112	117	75-125	3	20	11.5	13.8	18	20
Silver	103	110	75-125	7	20	0.0337 J	0.0284 J	17 (1)	20
Thallium	104	122	75-125	11	20	0.244	0.284	15 (1)	20
Vanadium	99	137*	75-125	8	20	34.2	40.9	18	20
Zinc	111 (2)	145 (2)	75-125	5	20	55.0	64.0	15	20
Batch number: 112901026001B	Sample number(s): 6437193-6437198,6437201 UNSPK: 6437195 BKG: 6437195								
Selenium	103	118	75-125	13	20	0.162 J	0.153 J	6 (1)	20
Batch number: 112901026001C	Sample number(s): 6437193-6437198,6437201 UNSPK: 6437195 BKG: 6437195								
Molybdenum	104	111	75-125	7	20	0.266	0.289	8 (1)	20
Batch number: 112901026001D	Sample number(s): 6437193-6437198,6437201 UNSPK: 6437195 BKG: 6437195								
Barium	138 (2)	141 (2)	75-125	0	20	85.0	93.7	10	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271284
Reported: 11/18/11 at 09:28 AM

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 112905708002	Sample number(s): 6437193-6437198,6437201 UNSPK: 6437195 BKG: 6437195								
Aluminum	2054 (2)	1557 (2)	75-125	6	20	12,500	12,700	2	20
Boron	103	102	84-115	0	20	1.03 J	0.806 J	25* (1)	20
Calcium	156 (2)	118 (2)	75-125	4	20	3,410	3,450	1	20
Iron	2305 (2)	15740 (2)	75-125	45*	20	20,200	20,700	2	20
Lithium	101	98	82-114	2	20	27.6	28.3	3	20
Magnesium	398 (2)	211 (2)	75-125	5	20	6,060	6,060	0	20
Manganese	45 (2)	74 (2)	75-125	4	20	299	276	8	20
Phosphorus	86 (2)	91 (2)	75-125	1	20	435	405	7	20
Strontium	100	98	75-115	1	20	12.6	12.1	4	20
Tin	90	89	80-110	0	20	2.61 J	2.45 J	6 (1)	20
Titanium	307 (2)	281 (2)	75-125	2	20	1,210	1,180	2	20
Zirconium	97	97	81-110	1	20	0.897 J	1.34 J	40* (1)	20
Batch number: 112905711002	Sample number(s): 6437193-6437198,6437201 UNSPK: 6437195 BKG: 6437195								
Mercury	101	99	65-135	4	20	0.0068 J	0.0069 U	200* (1)	20
Batch number: 112985708002	Sample number(s): 6437193-6437198,6437201 UNSPK: 6437195 BKG: 6437195								
Potassium	128*	119	75-125	3	20	2,360	2,410	2	20
Sodium	99	97	75-125	4	20	118	115	3 (1)	20
Batch number: 11291243201A	Sample number(s): 6437193-6437194 UNSPK: P435690 BKG: P435690								
3a Cr VI by EPA 7199	91		75-125			0.20 U	0.20 U	0 (1)	20
Batch number: 11292243201A	Sample number(s): 6437195-6437196,6437198,6437201 UNSPK: 6437195 BKG: 6437195								
3a Cr VI by EPA 7199	89		75-125			0.20 U	1.3	200* (1)	20
Batch number: 11293102201A	Sample number(s): 6437193-6437194 UNSPK: P435690 BKG: P435690								
16a Cyanide by 9012B	88		75-125			0.18 U	0.17 U	0 (1)	20
Batch number: 11293102201B	Sample number(s): 6437195-6437196,6437198,6437201 UNSPK: 6437195 BKG: 6437195								
16a Cyanide by 9012B	99		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11293621201A	Sample number(s): 6437193-6437196,6437198,6437201 UNSPK: 6437195 BKG: 6437195								
7a Perchlorate EPA 314.0	113		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11298495201A	Sample number(s): 6437193-6437196,6437198,6437201 UNSPK: 6437195 BKG: 6437195								
11a Anions by 300.0 - Fluoride	70*		80-120			2.2	2.6	17 (1)	20
11a Anions by 300.0 - Nitrate	88		80-120			3.8	3.7	1 (1)	20
Batch number: 11299039402B	Sample number(s): 6437193-6437195,6437198,6437201 BKG: 6437195								
17a pH by 9045C						7.86	7.90	1	3
Batch number: 11291162401B	Sample number(s): 6437204 BKG: P431141								
Moisture Content by 160.3						4.4	4.3	2	20
Batch number: 11298162401B	Sample number(s): 6437193-6437199,6437201 BKG: 6437195								
28a Moisture Content by 160.3						11.8	11.7	1	20
Moisture Content by 160.3						11.8	11.7	1	20
Moisture Content by 160.3						11.8	11.7	1	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271284
Reported: 11/18/11 at 09:28 AM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11290SLF026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6437193	96	96	89	97	89	87
6437194	98	99	85	97	90	86
6437195	99	101	88	100	92	89
6437196	101	104	97	103	94	88
6437197	101	104	92	103	95	87
6437201	100	101	80	98	88	86
Blank	96	97	99	98	88	87
LCS	98	98	103	99	89	85
MS	101	104	97	103	94	88
MSD	101	104	92	103	95	87
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 21b. NDMA in Water
Batch number: 11290WAA026

	N-Nitrosodimethylamine-d6
6437202	115
6437203	113
6437206	117
Blank	102
LCS	101
LCSD	98
Limits:	50-150

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11290WAB026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6437206	59	36	113	104	93	91
Blank	55	33	111	100	91	91
LCS	56	34	106	97	86	85
LCSD	65	40	113	106	93	88
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11290WAJ026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6437206	100	87	83
Blank	95	87	84
LCS	109	97	86
LCSD	110	94	85

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271284
Reported: 11/18/11 at 09:28 AM

Surrogate Quality Control

Limits: 40-130 45-130 45-135

Analysis Name: 21a NDMA by 1625C
Batch number: 11291SLG026

	N-Nitrosodimethylamine-d6
6437193	94
6437194	99
6437195	88
6437196	94
6437197	77
6437201	77
6437204	83
Blank	124
LCS	120
MS	94
MSD	77

Limits: 50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11298SLA026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6437193	101	93	83
6437194	91	59	79
6437195	92	85	92
6437196	94	86	91
6437197	100	91	97
6437201	97	88	81
Blank	105	101	110
LCS	100	91	97
MS	94	86	91
MSD	100	91	97

Limits: 40-130 45-130 45-135

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11290B20A

	Trifluorotoluene-F
6437205	86
6437206	87
Blank	84
LCS	109
LCSD	113

Limits: 63-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11293A16A

	Trifluorotoluene-F
6437193	79
6437194	73
6437195	84

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Quality Control Summary

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Surrogate Quality Control

6437196	90
6437197	76
6437201	87
Blank	92
LCS	93
MS	90
MSD	76
Limits:	61-122

Analysis Name: 20b Formaldehyde 8315A
Batch number: 112880004A

	Butyraldehyde
6437206	99
Blank	86
LCS	92
LCSD	96
Limits:	45-145

Analysis Name: 15a Energetics by 8330A
Batch number: 112880015A

	2-Nitro-m-xylene
6437193	118
6437194	117
6437195	116
6437196	108
6437197	113
6437199	118
6437200	117
6437201	115
Blank	125
LCS	114
LCSD	113
MS	108
MSD	113
Limits:	80-146

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 112900011A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6437206	97	109
Blank	94	78
LCS	90	90
LCSD	91	112
Limits:	30-150	45-120

Analysis Name: 15b Energetics by 8330A
Batch number: 112900016A

	2-Nitro-m-xylene
6437206	92

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271284
Reported: 11/18/11 at 09:28 AM

Surrogate Quality Control

Blank	98
LCS	97
LCSD	90
Limits:	50-134

Analysis Name: 20a Formaldehyde 8315A
Batch number: 112910003A

	Butyraldehyde
6437193	80
6437194	95
6437195	91
6437196	80
6437197	84
6437199	77
6437200	90
6437201	73
Blank	87
LCS	86
MS	80
MSD	84
Limits:	64-126

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112910025A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6437193	74	92
6437194	72	85
6437195	62	88
6437196	74	84
6437197	61	89
6437199	72	87
6437200	77	92
6437201	71	81
Blank	82	93
LCS	73	89
LCSD	76	99
MS	74	84
MSD	61	89
Limits:	53-139	53-142

Analysis Name: 18b Alcohols by 8015B
Batch number: 112870020A

	Acetone
6437206	91
Blank	89
LCS	89
MS	99
MSD	102
Limits:	54-147

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271284
Reported: 11/18/11 at 09:28 AM

Surrogate Quality Control

Analysis Name: 22b Terphenyls by 8015B
Batch number: 112880013A

	n-Triacontane-d62
6437206	77
Blank	73
LCS	67
LCSD	69
Limits:	17-138

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 112900022A

	Chlorobenzene	Orthoterphenyl
6437206	82	83
Blank	79	79
LCS	86	91
LCSD	84	92
Limits:	28-152	52-131

Analysis Name: 18a Alcohols by 8015B
Batch number: 112900028A

	Acetone
6437193	72
6437194	67
6437195	67
6437196	69
6437197	66
6437199	65
6437200	82
6437201	62
Blank	83
LCS	82
MS	69
MSD	66
Limits:	42-138

Analysis Name: 19b Glycols by 8015B
Batch number: 112910030A

	Tetramethylene glycol
6437206	108
Blank	126
LCS	134
MS	124
MSD	129
Limits:	29-157

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112920027A

	Chlorobenzene	Orthoterphenyl

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271284
Reported: 11/18/11 at 09:28 AM

Surrogate Quality Control

6437193	52	81
6437194	52	79
6437195	65	85
6437196	77	86
6437197	80	90
6437199	73	86
6437200	87	90
6437201	75	86
Blank	82	88
LCS	88	92
MS	77	86
MSD	80	90
Limits:	37-125	47-145

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112920028A

	n-Triacontane-d62
6437193	76
6437194	75
6437195	79
6437196	79
6437197	79
6437199	78
6437200	76
6437201	76
Blank	80
LCS	79
MS	79
MSD	79
Limits:	19-152

Analysis Name: 19a Glycols by 8015B
Batch number: 112980042A

	Tetramethylene glycol
6437193	90
6437194	88
6437195	85
6437196	88
6437197	87
6437201	87
Blank	100
LCS	99
MS	88
MSD	87
Limits:	29-137

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cap#1271284 Sample# G437193-06

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dewonil EPA 8270	Other Instructions and Notes
SL-005-SA3-SB-4.5	10.13.11	1204	SOIL	NONE	2-Encores										X										
SL-005-SA3-SB-4.0-5.0	10.13.11	1209	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	
SL-005-SA3-SB-8.0	10.13.11	1127	SOIL	NONE	2-Encores										X										
SL-005-SA3-SB-7.5-8.5	10.13.11	1134	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	
SL-089-SA7-SB-4.0MS	10.13.11	1230	SOIL	NONE	6-Encores										X										MS/MSD
SL-089-SA7-SB-3.5-4.5MS	10.13.11	1235	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	MS/MSD
DUP09-SA7-QC-101311	10.13.11	1240	SOIL	NONE	2-Encores										X										
DUP09-SA7-QC-101311	10.13.11	1240	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	
EB-SA7-SB-101311	10.13.11	1430	WATER	NONE	1 1L Amber														X						HGL ASTM II WATER-HA crew
SL-096-SA7-SB-2.5	10.12.11	1145	SOIL	NONE	2-Encores										X										sampled 10.12.11
TB-101311	10.13.11	0800	WATER	NONE	1-1 L Amber														X						
TB-101311	10.13.11	0800	SOIL	NONE	1-4 oz Jar														X						
TB-101311	10.13.11	0800	WATER	NONE	2-40 mL Vials										X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/13/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8767 9857 5154,5132,5143	Suzette Lehman 10/14/11 0915

SL-096-SA7-SB-2.5 encores were logged in as additional volume for LLI#6435696(DE267) per PH. NM 10/18/11

acct#13013 Gp#1271284 sample# G437193-06

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8016B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonol EPA 8270	Other Instructions and Notes
EB-SA7-SB-101311	10.13.11	1400	WATER	NONE	10-1 liter ambers			X	X	X						X			X	X		X			X	EB collected for HA crew
EB-SA7-SB-101311	10.13.11	1400	WATER	NONE	1-500 mL poly		X				X	X	X													
EB-SA7-SB-101311	10.13.11	1400	WATER	HNO3	1-500 mL poly	X																				
EB-SA7-SB-101311	10.13.11	1400	WATER	NaOH	1-500 mL poly																X					
EB-SA7-SB-101311	10.13.11	1400	WATER	NONE	1-250 mL glass													X								
EB-SA7-SB-101311	10.13.11	1400	WATER	HCL	11-40 mL vials										X									X		
EB-SA7-SB-101311	10.13.11	1400	WATER	NONE	4-40 mL vials												X						X			

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/13/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8767 9857 5154,5132,5143	Suzette Luhman 10/14/11 0915

Nicole Maljovec

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Thursday, October 13, 2011 2:42 PM
To: Nicole Maljovec
Subject: RE: SSFL COC 10/12/11- SL-096-SA7-SB-2.0-3.0 Soil empty encores

Yes, I found them! I need to really check those encores, you would think I would be able to feel the difference between an emtpy pouch and a full one!

I'll send them today!

Pamela Hartman
CDM
523 W 6th St #400
Los Angeles, CA 90014
Cell 714-900-0916
Direct 818-466-8007

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Thursday, October 13, 2011 11:35 AM
To: Hartman, Pamela
Subject: FW: SSFL COC 10/12/11- SL-096-SA7-SB-2.0-3.0 Soil empty encores

Hi Pam,
The encores for SL-096-SA7-SB-2.5 were empty. Do you think the full encores are still in CA? if so, as long as we get them tomorrow, we'll still be able to prep within the holding time.

Thanks!
Nicole

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Wednesday, October 12, 2011 7:29 PM
To: Bloisa, Peggy; Burgesser, Todd; Cortes, Vidal A.; 'Laura Rainey'; SA Env Entry; TWallbom@dtsc.ca.gov; Nicole Maljovec; Zakowski, Cherie
Subject: SSFL COC 10/12/11

Subsurface sampling continued with two crews in SA3 and SA7. It was a hot one out there today!

Please see attached COC.

Thanks,

Pam

Pamela Hartman
CDM
523 W 6th St #400
Los Angeles, CA 90014
Cell 714-900-0916
Direct 818-466-8007

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 31, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/14/2011
Group Number: 1271287
SDG: DX150
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-005-SA3-SB-4.0-5.0 Soil	6437218
SL-005-SA3-SB-7.5-8.5 Soil	6437219
SL-089-SA7-SB-3.5-4.5 Soil	6437220
SL-089-SA7-SB-3.5-4.5MS Soil	6437221
SL-089-SA7-SB-3.5-4.5MSD Soil	6437222
DUP09-SA7-QC-101311 Soil	6437223
EB-SA7-SB-101311 Water	6437224

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-005-SA3-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-4.0-5.0

LLI Sample # SW 6437218
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:09

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5001 SDG#: DX150-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-005-SA3-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-4.0-5.0

LLI Sample # SW 6437218
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:09

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5001 SDG#: DX150-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0380 U	0.0380	1.06	1
11031	12378-PeCDD	40321-76-4	0.0330 JBQ	0.0324	5.30	1
11031	123478-HxCDD	39227-28-6	0.0237 U	0.0237	5.30	1
11031	123678-HxCDD	57653-85-7	0.0467 JBQ	0.0239	5.30	1
11031	123789-HxCDD	19408-74-3	0.0620 JBQ	0.0241	5.30	1
11031	1234678-HpCDD	35822-46-9	0.646 JB	0.0317	5.30	1
11031	OCDD	3268-87-9	4.27 JB	0.0337	10.6	1
11031	2378-TCDF	51207-31-9	0.0292 U	0.0292	1.06	1
11031	12378-PeCDF	57117-41-6	0.0490 JBQ	0.0169	5.30	1
11031	23478-PeCDF	57117-31-4	0.0572 JBQ	0.0164	5.30	1
11031	123478-HxCDF	70648-26-9	0.0405 JQ	0.0171	5.30	1
11031	123678-HxCDF	57117-44-9	0.0484 JBQ	0.0152	5.30	1
11031	123789-HxCDF	72918-21-9	0.0179 U	0.0179	5.30	1
11031	234678-HxCDF	60851-34-5	0.0386 JBQ	0.0149	5.30	1
11031	1234678-HpCDF	67562-39-4	0.207 JB	0.0149	5.30	1
11031	1234789-HpCDF	55673-89-7	0.0417 JB	0.0234	5.30	1
11031	OCDF	39001-02-0	0.392 JBQ	0.0494	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	60	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-005-SA3-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-4.0-5.0

LLI Sample # SW 6437218
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:09

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5001 SDG#: DX150-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-005-SA3-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-4.0-5.0

LLI Sample # SW 6437218
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:09

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5001 SDG#: DX150-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11300001	10/29/2011 13:26	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11300001	10/27/2011 09:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-005-SA3-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-7.5-8.5

LLI Sample # SW 6437219
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 11:34

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5002 SDG#: DX150-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-005-SA3-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-7.5-8.5

LLI Sample # SW 6437219
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 11:34

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5002 SDG#: DX150-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0358	U	0.0358	1.16	1
11031	12378-PeCDD	40321-76-4	0.0472	JBQ	0.0304	5.80	1
11031	123478-HxCDD	39227-28-6	0.0240	JBQ	0.0197	5.80	1
11031	123678-HxCDD	57653-85-7	0.0412	JB	0.0200	5.80	1
11031	123789-HxCDD	19408-74-3	0.0215	JBQ	0.0205	5.80	1
11031	1234678-HpCDD	35822-46-9	0.266	JBQ	0.0244	5.80	1
11031	OCDD	3268-87-9	0.630	JB	0.0266	11.6	1
11031	2378-TCDF	51207-31-9	0.0285	JQ	0.0261	1.16	1
11031	12378-PeCDF	57117-41-6	0.0147	U	0.0147	5.80	1
11031	23478-PeCDF	57117-31-4	0.0682	JBQ	0.0149	5.80	1
11031	123478-HxCDF	70648-26-9	0.0469	J	0.0153	5.80	1
11031	123678-HxCDF	57117-44-9	0.0195	JBQ	0.0120	5.80	1
11031	123789-HxCDF	72918-21-9	0.0322	JBQ	0.0163	5.80	1
11031	234678-HxCDF	60851-34-5	0.0460	JBQ	0.0132	5.80	1
11031	1234678-HpCDF	67562-39-4	0.115	JBQ	0.0113	5.80	1
11031	1234789-HpCDF	55673-89-7	0.0359	JBQ	0.0198	5.80	1
11031	OCDF	39001-02-0	0.159	JBQ	0.0472	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	55	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-005-SA3-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-7.5-8.5

LLI Sample # SW 6437219
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 11:34

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5002 SDG#: DX150-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-005-SA3-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-005-SA3-SB-7.5-8.5

LLI Sample # SW 6437219
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 11:34

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5002 SDG#: DX150-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11300001	10/29/2011 14:23	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11300001	10/27/2011 09:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-089-SA7-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437220
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5003 SDG#: DX150-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-089-SA7-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437220
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5003 SDG#: DX150-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0332 U	0.0332	1.12	1
11031	12378-PeCDD	40321-76-4	0.0421 JBQ	0.0282	5.60	1
11031	123478-HxCDD	39227-28-6	0.0699 JB	0.0303	5.60	1
11031	123678-HxCDD	57653-85-7	0.253 JB	0.0300	5.60	1
11031	123789-HxCDD	19408-74-3	0.119 JBQ	0.0283	5.60	1
11031	1234678-HpCDD	35822-46-9	4.64 JB	0.0430	5.60	1
11031	OCDD	3268-87-9	44.4 B	0.0426	11.2	1
11031	2378-TCDF	51207-31-9	0.0780 JQ	0.0325	1.12	1
11031	12378-PeCDF	57117-41-6	0.0524 JBQ	0.0194	5.60	1
11031	23478-PeCDF	57117-31-4	0.196 JBQ	0.0212	5.60	1
11031	123478-HxCDF	70648-26-9	0.328 J	0.0264	5.60	1
11031	123678-HxCDF	57117-44-9	0.0847 JB	0.0212	5.60	1
11031	123789-HxCDF	72918-21-9	0.0800 JB	0.0294	5.60	1
11031	234678-HxCDF	60851-34-5	0.146 JBQ	0.0220	5.60	1
11031	1234678-HpCDF	67562-39-4	0.936 JB	0.0189	5.60	1
11031	1234789-HpCDF	55673-89-7	0.0695 JBQ	0.0400	5.60	1
11031	OCDF	39001-02-0	2.37 JB	0.0520	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	49	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-089-SA7-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437220
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5003 SDG#: DX150-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-089-SA7-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437220
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5003 SDG#: DX150-03BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11300001	10/29/2011 15:19	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11300001	10/27/2011 09:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-089-SA7-SB-3.5-4.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437221
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5003 SDG#: DX150-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-089-SA7-SB-3.5-4.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437221
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X5003 SDG#: DX150-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	23.1		0.0413	1.13	1
11031	12378-PeCDD	40321-76-4	114	B	0.0536	5.64	1
11031	123478-HxCDD	39227-28-6	111	B	0.0465	5.64	1
11031	123678-HxCDD	57653-85-7	104	B	0.0498	5.64	1
11031	123789-HxCDD	19408-74-3	113	B	0.0507	5.64	1
11031	1234678-HpCDD	35822-46-9	113	B	0.0695	5.64	1
11031	OCDD	3268-87-9	257	B	0.0707	11.3	1
11031	2378-TCDF	51207-31-9	22.2		0.0491	1.13	1
11031	12378-PeCDF	57117-41-6	112	B	0.0320	5.64	1
11031	23478-PeCDF	57117-31-4	107	B	0.0328	5.64	1
11031	123478-HxCDF	70648-26-9	109		0.0593	5.64	1
11031	123678-HxCDF	57117-44-9	109	B	0.0535	5.64	1
11031	123789-HxCDF	72918-21-9	111	B	0.0698	5.64	1
11031	234678-HxCDF	60851-34-5	107	B	0.0546	5.64	1
11031	1234678-HpCDF	67562-39-4	101	B	0.0464	5.64	1
11031	1234789-HpCDF	55673-89-7	108	B	0.0759	5.64	1
11031	OCDF	39001-02-0	220	B	0.0825	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	92	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	68	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-089-SA7-SB-3.5-4.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437221
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5003 SDG#: DX150-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-089-SA7-SB-3.5-4.5MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437221
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5003 SDG#: DX150-03MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11300001	10/29/2011 16:16	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11300001	10/27/2011 09:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-089-SA7-SB-3.5-4.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437222
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5003 SDG#: DX150-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-089-SA7-SB-3.5-4.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437222
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5003 SDG#: DX150-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	23.6		0.0478	1.09	1
11031	12378-PeCDD	40321-76-4	111	B	0.0447	5.44	1
11031	123478-HxCDD	39227-28-6	105	B	0.0562	5.44	1
11031	123678-HxCDD	57653-85-7	101	B	0.0582	5.44	1
11031	123789-HxCDD	19408-74-3	110	B	0.0568	5.44	1
11031	1234678-HpCDD	35822-46-9	111	B	0.0766	5.44	1
11031	OCDD	3268-87-9	251	B	0.0676	10.9	1
11031	2378-TCDF	51207-31-9	20.6		0.0490	1.09	1
11031	12378-PeCDF	57117-41-6	109	B	0.0336	5.44	1
11031	23478-PeCDF	57117-31-4	102	B	0.0327	5.44	1
11031	123478-HxCDF	70648-26-9	105		0.0710	5.44	1
11031	123678-HxCDF	57117-44-9	106	B	0.0628	5.44	1
11031	123789-HxCDF	72918-21-9	107	B	0.0774	5.44	1
11031	234678-HxCDF	60851-34-5	104	B	0.0622	5.44	1
11031	1234678-HpCDF	67562-39-4	97.6	B	0.0525	5.44	1
11031	1234789-HpCDF	55673-89-7	103	B	0.0947	5.44	1
11031	OCDF	39001-02-0	209	B	0.0802	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	52	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-089-SA7-SB-3.5-4.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437222
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5003 SDG#: DX150-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-089-SA7-SB-3.5-4.5MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-089-SA7-SB-3.5-4.5

LLI Sample # SW 6437222
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:35

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5003 SDG#: DX150-03MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11300001	10/29/2011 17:12	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11300001	10/27/2011 09:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

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Analysis Report

Sample Description: **DUP09-SA7-QC-101311 Soil**
SSFL Area IV Collocated Soil Sampling
DUP09-SA7-QC-101311

LLI Sample # SW 6437223
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:40

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5004 SDG#: DX150-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP09-SA7-QC-101311 Soil**
SSFL Area IV Collocated Soil Sampling
DUP09-SA7-QC-101311

LLI Sample # SW 6437223
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:40

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5004 SDG#: DX150-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0366 J	0.0332	1.12	1
11031	12378-PeCDD	40321-76-4	0.0835 JBQ	0.0298	5.59	1
11031	123478-HxCDD	39227-28-6	0.0729 JBQ	0.0306	5.59	1
11031	123678-HxCDD	57653-85-7	0.188 JBQ	0.0309	5.59	1
11031	123789-HxCDD	19408-74-3	0.150 JBQ	0.0293	5.59	1
11031	1234678-HpCDD	35822-46-9	4.45 JB	0.0370	5.59	1
11031	OCDD	3268-87-9	39.5 B	0.0509	11.2	1
11031	2378-TCDF	51207-31-9	0.0570 JQ	0.0293	1.12	1
11031	12378-PeCDF	57117-41-6	0.0785 JBQ	0.0201	5.59	1
11031	23478-PeCDF	57117-31-4	0.128 JBQ	0.0202	5.59	1
11031	123478-HxCDF	70648-26-9	0.244 JQ	0.0247	5.59	1
11031	123678-HxCDF	57117-44-9	0.0971 JB	0.0226	5.59	1
11031	123789-HxCDF	72918-21-9	0.0436 JB	0.0268	5.59	1
11031	234678-HxCDF	60851-34-5	0.153 JBQ	0.0212	5.59	1
11031	1234678-HpCDF	67562-39-4	0.789 JB	0.0183	5.59	1
11031	1234789-HpCDF	55673-89-7	0.111 JB	0.0305	5.59	1
11031	OCDF	39001-02-0	2.24 JB	0.0450	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	57	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **DUP09-SA7-QC-101311 Soil**
SSFL Area IV Collocated Soil Sampling
DUP09-SA7-QC-101311

LLI Sample # SW 6437223
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:40

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5004 SDG#: DX150-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **DUP09-SA7-QC-101311 Soil**
SSFL Area IV Collocated Soil Sampling
DUP09-SA7-QC-101311

LLI Sample # SW 6437223
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 12:40

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5004 SDG#: DX150-04FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11300001	10/29/2011 18:09	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11300001	10/27/2011 09:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA7-SB-101311 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-101311

LLI Sample # WW 6437224
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:00

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5005 SDG#: DX150-05EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.335	U	0.335	2.00	1
10915	12378-PeCDD	40321-76-4	0.261	U	0.261	9.99	1
10915	123478-HxCDD	39227-28-6	0.227	U	0.227	9.99	1
10915	123678-HxCDD	57653-85-7	0.265	JQ	0.224	9.99	1
10915	123789-HxCDD	19408-74-3	0.225	U	0.225	9.99	1
10915	1234678-HpCDD	35822-46-9	3.09	JB	0.265	9.99	1
10915	OCDD	3268-87-9	6.33	JB	0.232	20.0	1
10915	2378-TCDF	51207-31-9	0.228	U	0.228	2.00	1
10915	12378-PeCDF	57117-41-6	0.147	U	0.147	9.99	1
10915	23478-PeCDF	57117-31-4	0.419	JBQ	0.128	9.99	1
10915	123478-HxCDF	70648-26-9	0.423	JB	0.143	9.99	1
10915	123678-HxCDF	57117-44-9	0.458	JBQ	0.145	9.99	1
10915	123789-HxCDF	72918-21-9	0.144	U	0.144	9.99	1
10915	234678-HxCDF	60851-34-5	0.416	JB	0.124	9.99	1
10915	1234678-HpCDF	67562-39-4	2.11	JB	0.110	9.99	1
10915	1234789-HpCDF	55673-89-7	0.292	JBQ	0.120	9.99	1
10915	OCDF	39001-02-0	1.70	JB	0.276	20.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	73	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA7-SB-101311 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-101311

LLI Sample # WW 6437224
LLI Group # 1271287
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:00

Submitted: 10/14/2011 09:15
Reported: 10/31/2011 15:51

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5005 SDG#: DX150-05EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11292001	10/21/2011 22:11	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11292001	10/19/2011 06:40	Ginelle L Haines	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271287
Reported: 10/31/11 at 03:51 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11298162401B	Sample number(s): 6437218-6437223								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11292001	Sample number(s): 6437224								
2378-TCDD	0.360 U	0.360	2.00	pg/l	103		67-158		
12378-PeCDD	0.541 J	0.280	10.0	pg/l	100		70-142		
123478-HxCDD	0.226 U	0.226	10.0	pg/l	97		70-164		
123678-HxCDD	0.230 U	0.230	10.0	pg/l	94		76-134		
123789-HxCDD	0.623 J	0.222	10.0	pg/l	100		64-162		
1234678-HpCDD	2.75 J	0.205	10.0	pg/l	99		70-140		
OCDD	5.09 J	0.237	20.0	pg/l	98		78-144		
2378-TCDF	0.242 U	0.242	2.00	pg/l	90		75-158		
12378-PeCDF	0.414 J	0.162	10.0	pg/l	100		80-134		
23478-PeCDF	0.934 J	0.145	10.0	pg/l	90		68-160		
123478-HxCDF	0.536 J	0.145	10.0	pg/l	98		72-134		
123678-HxCDF	0.592 J	0.145	10.0	pg/l	97		84-130		
123789-HxCDF	0.484 J	0.164	10.0	pg/l	97		78-130		
234678-HxCDF	0.606 J	0.139	10.0	pg/l	94		70-156		
1234678-HpCDF	2.04 J	0.125	10.0	pg/l	90		82-122		
1234789-HpCDF	0.351 J	0.138	10.0	pg/l	96		78-138		
OCDF	1.52 J	0.243	20.0	pg/l	98		63-170		
Batch number: 11300001	Sample number(s): 6437218-6437223								
2378-TCDD	0.0422 U	0.0422	1.00	ng/kg	107		67-158		
12378-PeCDD	0.0804 J	0.0346	5.00	ng/kg	105		70-142		
123478-HxCDD	0.0345 J	0.0262	5.00	ng/kg	97		70-164		
123678-HxCDD	0.0438 J	0.0267	5.00	ng/kg	94		76-134		
123789-HxCDD	0.0427 J	0.0259	5.00	ng/kg	101		64-162		
1234678-HpCDD	0.295 J	0.0295	5.00	ng/kg	97		70-140		
OCDD	0.493 J	0.0380	10.0	ng/kg	96		78-144		
2378-TCDF	0.0353 U	0.0353	1.00	ng/kg	103		75-158		
12378-PeCDF	0.0458 J	0.0185	5.00	ng/kg	101		80-134		
23478-PeCDF	0.0744 J	0.0187	5.00	ng/kg	96		68-160		
123478-HxCDF	0.0234 U	0.0234	5.00	ng/kg	96		72-134		
123678-HxCDF	0.0512 J	0.0189	5.00	ng/kg	97		84-130		
123789-HxCDF	0.0857 J	0.0250	5.00	ng/kg	99		78-130		
234678-HxCDF	0.0555 J	0.0210	5.00	ng/kg	94		70-156		
1234678-HpCDF	0.128 J	0.0153	5.00	ng/kg	90		82-122		
1234789-HpCDF	0.0489 J	0.0291	5.00	ng/kg	96		78-138		
OCDF	0.188 J	0.0680	10.0	ng/kg	96		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271287
Reported: 10/31/11 at 03:51 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11298162401B	Sample number(s): 6437218-6437223					BKG: P437195			
Moisture Content by 160.3						11.8	11.7	1	20
Batch number: 11300001	Sample number(s): 6437218-6437223 UNSPK: 6437220								
2378-TCDD	103	109	67-158	2	25				
12378-PeCDD	101	102	70-142	3	25				
123478-HxCDD	99	96	70-164	6	25				
123678-HxCDD	92	93	76-134	3	25				
123789-HxCDD	101	101	64-162	3	25				
1234678-HpCDD	96	98	70-140	2	25				
OCDD	94	95	78-144	2	25				
2378-TCDF	98	94	75-158	8	25				
12378-PeCDF	99	100	80-134	2	25				
23478-PeCDF	95	94	68-160	5	25				
123478-HxCDF	97	96	72-134	4	25				
123678-HxCDF	96	97	84-130	3	25				
123789-HxCDF	99	99	78-130	4	25				
234678-HxCDF	95	96	70-156	3	25				
1234678-HpCDF	89	89	82-122	3	25				
1234789-HpCDF	95	94	78-138	5	25				
OCDF	96	95	63-170	5	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11292001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6437224	72	73	65	65	70	71
Blank	66	73	67	67	70	72
OPR	71	69	68	69	70	79
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6437224	68	73	73	71	72	73
Blank	75	82	89	71	73	75
OPR	74	76	77	69	72	75
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271287
Reported: 10/31/11 at 03:51 PM

Surrogate Quality Control

6437224	71	75	75	74	70
Blank	74	83	92	72	71
OPR	74	79	81	72	68
Limits:	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11300001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6437218	68	65	64	70	69	69
6437219	72	66	61	72	70	67
6437220	78	69	60	75	70	62
6437221	78	72	72	81	81	73
6437222	71	67	64	72	72	67
6437223	74	70	66	73	72	68
Blank	58	52	46	57	53	52
MS	78	72	72	81	81	73
MSD	71	67	64	72	72	67
OPR	63	57	56	65	59	59
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6437218	80	62	60	69	74	77
6437219	86	60	55	73	82	82
6437220	90	54	49	78	83	84
6437221	95	68	68	79	90	92
6437222	84	58	52	73	82	81
6437223	82	60	57	73	79	79
Blank	69	45	42	59	62	65
MS	95	68	68	79	90	92
MSD	84	58	52	73	82	81
OPR	80	53	51	65	72	72
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6437218	74	77	75	66	70
6437219	80	80	75	66	75
6437220	83	81	77	72	82
6437221	89	88	88	74	82
6437222	80	79	76	69	75
6437223	79	78	77	72	76
Blank	63	65	62	52	59
MS	89	88	88	74	82
MSD	80	79	76	69	75
OPR	71	74	70	56	65
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1271257 Sample# 6437213-24

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	
SL-005-SA3-SB-4.5	10.13.11	1204	SOIL	NONE	2-Encores										X										
SL-005-SA3-SB-4.0-5.0	10.13.11	1209	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	
SL-005-SA3-SB-8.0	10.13.11	1127	SOIL	NONE	2-Encores										X										
SL-005-SA3-SB-7.5-8.5	10.13.11	1134	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	
SL-089-SA7-SB-4.0MS	10.13.11	1230	SOIL	NONE	6-Encores										X										MS/MSD
SL-089-SA7-SB-3.5-4.5MS	10.13.11	1235	SOIL	NONE	4-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	MS/MSD
DUP09-SA7-QC-101311	10.13.11	1240	SOIL	NONE	2-Encores										X										
DUP09-SA7-QC-101311	10.13.11	1240	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	
EB-SA7-SB-101311	10.13.11	1430	WATER	NONE	1-1 L Amber														X						HGL ASTM II WATER-HA crew
SL-096-SA7-SB-2.5	10.12.11	1145	SOIL	NONE	2-Encores										X										sampled 10.12.11
TB-101311	10.13.11	0800	WATER	NONE	1-1 L Amber														X						
TB-101311	10.13.11	0800	SOIL	NONE	1-4 oz Jar														X						
TB-101311	10.13.11	0800	WATER	NONE	2-40 mL Vials										X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/13/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8767 9857 5154,5132,5143	Suzette Lehman 10/14/11 0915

acct# 13013 Gp# 1271257 sample# 6437218-24

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 6330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alconols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
EB-SA7-SB-101311	10.13.11	1400	WATER	NONE	10-1 liter ambers			X	X	X						X			X	X		X			X	EB collected for HA crew
EB-SA7-SB-101311	10.13.11	1400	WATER	NONE	1-500 mL poly		X				X	X	X													
EB-SA7-SB-101311	10.13.11	1400	WATER	HNO3	1-500 mL poly	X																				
EB-SA7-SB-101311	10.13.11	1400	WATER	NaOH	1-500 mL poly																X					
EB-SA7-SB-101311	10.13.11	1400	WATER	NONE	1-250 mL glass													X								
EB-SA7-SB-101311	10.13.11	1400	WATER	HCL	11-40 mL vials										X									X		
EB-SA7-SB-101311	10.13.11	1400	WATER	NONE	4-40 mL vials												X						X			

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/13/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8767 9857 5154,5132,5143	Suzette Lehman 10/14/11 0915

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 09, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/15/2011
Group Number: 1271484
SDG: DE269
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-006-SA3-SB-4.0-5.0 Soil	6438618
SL-006-SA3-SB-9.0-10.0 Soil	6438619
SL-036-SA5DS-SB-4.0-5.0 Soil	6438620
SL-036-SA5DS-SB-9.0-10.0 Soil	6438621
SL-037-SA5DS-SB-4.0-5.0 Soil	6438622
SL-037-SA5DS-SB-9.0-10.0 Soil	6438623
SL-038-SA5DS-SB-4.0-5.0 Soil	6438624
SL-038-SA5DS-SB-9.0-10.0 Soil	6438625
SL-164-SA7-SB-0.5-1.5 Soil	6438626
EB-SA3-SB-101411 Water	6438627
TB-101411 Water	6438628
TB-101411 Sand	6438629

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Sarah M. Snyder
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-006-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA3-SB-4.0-5.0

LLI Sample # SW 6438618
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 15:29

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6901 SDG#: DE269-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-006-SA3-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA3-SB-4.0-5.0

LLI Sample # SW 6438618
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 15:29

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6901 SDG#: DE269-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside of the method required holding time, and LCS/LCSD recoveries are within the QC

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-006-SA3-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA3-SB-4.0-5.0

LLI Sample # SW 6438618
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 15:29

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6901 SDG#: DE269-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extracts.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,500		6.48	21.4		1
07914	Boron	7440-42-8	0.385	U	0.385	5.35		1
01650	Calcium	7440-70-2	1,400		2.68	21.4		1
01654	Iron	7439-89-6	18,300		2.79	21.4		1
01656	Lithium	7439-93-2	21.2		0.66	2.1		1
01657	Magnesium	7439-95-4	3,340		0.471	10.7		1
06958	Manganese	7439-96-5	176		0.0385	0.535		1
10145	Phosphorus	7723-14-0	119		0.375	10.7		1
01662	Potassium	7440-09-7	2,230		12.0	53.0		1
01667	Sodium	7440-23-5	86.7	J	6.31	106		1
07968	Strontium	7440-24-6	20.1		0.0268	0.535		1
06969	Tin	7440-31-5	2.71	J	0.343	10.7		1
06970	Titanium	7440-32-6	1,080		0.0760	1.07		1
10146	Zirconium	7440-67-7	1.24	J	0.492	5.35		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0784	U	0.0784	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.53		0.0848	0.424		2
06126	Barium	7440-39-3	74.4		0.112	0.424		2
06127	Beryllium	7440-41-7	0.768		0.0170	0.106		2
06128	Cadmium	7440-43-9	0.0492	J	0.0466	0.106		2
06131	Chromium	7440-47-3	12.6		0.127	0.424		2
06132	Cobalt	7440-48-4	5.35		0.0212	0.106		2
06133	Copper	7440-50-8	4.36		0.0848	0.424		2
06135	Lead	7439-92-1	5.91		0.0108	0.212		2
06138	Molybdenum	7439-98-7	0.821		0.0530	0.106		2
06139	Nickel	7440-02-0	7.96		0.106	0.424		2
06141	Selenium	7782-49-2	0.131	J	0.0615	0.424		2
06142	Silver	7440-22-4	0.0498	J	0.0151	0.106		2
06145	Thallium	7440-28-0	0.258		0.0318	0.106		2
06148	Vanadium	7440-62-2	29.0		0.0233	0.106		2
06149	Zinc	7440-66-6	50.0		0.594	3.18		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0075	U	0.0075	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-006-SA3-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA3-SB-4.0-5.0

LLI Sample # SW 6438618
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 15:29

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6901 SDG#: DE269-01

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199		18540-29-9	0.77	J	0.22	1.1		1
		SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C		n.a.	7.03		0.0100	0.0100		1
Wet Chemistry		**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3		n.a.	9.3		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11291SLD026	10/21/2011	06:41	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11291SLE026	10/21/2011	12:59	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11291SLE026	10/18/2011	21:35	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11291SLD026	10/18/2011	21:35	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112910025A	10/21/2011	11:49	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112910025A	10/19/2011	12:00	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	112905708002	10/25/2011	03:04	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112905708002	10/25/2011	03:04	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112905708002	10/25/2011	03:04	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112905708002	10/25/2011	03:04	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112905708002	10/25/2011	03:04	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112905708002	10/25/2011	03:04	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112905708002	10/25/2011	03:04	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112905708002	10/25/2011	03:04	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112985708002	10/26/2011	10:52	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112985708002	10/26/2011	10:52	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112905708002	10/25/2011	03:04	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112905708002	10/25/2011	03:04	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112905708002	10/25/2011	03:04	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112905708002	10/25/2011	03:04	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112901026001A	10/18/2011	07:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112901026001A	10/18/2011	07:54	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-006-SA3-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA3-SB-4.0-5.0

LLI Sample # SW 6438618
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 15:29

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6901 SDG#: DE269-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112901026001D	10/18/2011 07:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112901026001A	10/18/2011 07:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112901026001A	10/18/2011 07:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112901026001A	10/18/2011 07:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112901026001A	10/18/2011 07:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112901026001A	10/18/2011 07:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112901026001A	10/18/2011 07:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112901026001C	10/18/2011 07:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112901026001A	10/18/2011 07:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112901026001B	10/18/2011 07:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112901026001A	10/18/2011 07:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112901026001A	10/18/2011 07:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112901026001A	10/18/2011 07:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112901026001A	10/18/2011 07:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112905711002	10/18/2011 09:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112905708002	10/17/2011 22:40	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112985708002	10/25/2011 22:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112901026001	10/17/2011 22:42	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112905711002	10/18/2011 02:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11299621201A	10/27/2011 12:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11293621201B	10/20/2011 14:50	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11292243201A	10/20/2011 17:07	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11299621201A	10/26/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621201B	10/20/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11299039402A	10/26/2011 15:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11292243201A	10/19/2011 09:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

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Analysis Report

Sample Description: SL-006-SA3-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA3-SB-9.0-10.0

LLI Sample # SW 6438619
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:47

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6902 SDG#: DE269-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-006-SA3-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA3-SB-9.0-10.0

LLI Sample # SW 6438619
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:47

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6902 SDG#: DE269-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	28		6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside of the method required holding time, and LCS/LCSD recoveries are within the QC

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-006-SA3-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA3-SB-9.0-10.0

LLI Sample # SW 6438619
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:47

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6902 SDG#: DE269-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extracts.							
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,500		6.72	22.2		1
07914	Boron	7440-42-8	0.400	U	0.400	5.55		1
01650	Calcium	7440-70-2	1,170		2.78	22.2		1
01654	Iron	7439-89-6	18,700		2.90	22.2		1
01656	Lithium	7439-93-2	18.9		0.69	2.2		1
01657	Magnesium	7439-95-4	3,550		0.489	11.1		1
06958	Manganese	7439-96-5	168		0.0400	0.555		1
10145	Phosphorus	7723-14-0	96.4		0.389	11.1		1
01662	Potassium	7440-09-7	1,560		12.4	55.0		1
01667	Sodium	7440-23-5	145		6.54	110		1
07968	Strontium	7440-24-6	16.4		0.0278	0.555		1
06969	Tin	7440-31-5	2.92	J	0.355	11.1		1
06970	Titanium	7440-32-6	1,080		0.0788	1.11		1
10146	Zirconium	7440-67-7	1.23	J	0.511	5.55		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.161	J	0.0830	0.224		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.31		0.0897	0.449		2
06126	Barium	7440-39-3	74.3		0.119	0.449		2
06127	Beryllium	7440-41-7	1.07		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.0493	U	0.0493	0.112		2
06131	Chromium	7440-47-3	15.3		0.135	0.449		2
06132	Cobalt	7440-48-4	5.76		0.0224	0.112		2
06133	Copper	7440-50-8	6.28		0.0897	0.449		2
06135	Lead	7439-92-1	7.77		0.0114	0.224		2
06138	Molybdenum	7439-98-7	0.773		0.0561	0.112		2
06139	Nickel	7440-02-0	7.43		0.112	0.449		2
06141	Selenium	7782-49-2	0.114	J	0.0650	0.449		2
06142	Silver	7440-22-4	0.0453	J	0.0159	0.112		2
06145	Thallium	7440-28-0	0.270		0.0336	0.112		2
06148	Vanadium	7440-62-2	38.3		0.0247	0.112		2
06149	Zinc	7440-66-6	59.2		0.628	3.36		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0078	U	0.0078	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.1		0.91	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.0		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-006-SA3-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA3-SB-9.0-10.0

LLI Sample # SW 6438619
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:47

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6902 SDG#: DE269-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	6.65		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	11.7		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11291SLD026	10/21/2011 07:06	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11291SLE026	10/21/2011 14:38	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11291SLE026	10/18/2011 21:35	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11291SLD026	10/18/2011 21:35	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112910025A	10/21/2011 12:08	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112910025A	10/19/2011 12:00	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	112905708002	10/25/2011 03:09	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112905708002	10/25/2011 03:09	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112905708002	10/25/2011 03:09	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112905708002	10/25/2011 03:09	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112905708002	10/25/2011 03:09	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112905708002	10/25/2011 03:09	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112905708002	10/25/2011 03:09	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112905708002	10/25/2011 03:09	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112985708002	10/26/2011 10:56	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112985708002	10/26/2011 10:56	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112905708002	10/25/2011 03:09	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112905708002	10/25/2011 03:09	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112905708002	10/25/2011 03:09	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112905708002	10/25/2011 03:09	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112901026001A	10/18/2011 07:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112901026001A	10/18/2011 07:57	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-006-SA3-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA3-SB-9.0-10.0

LLI Sample # SW 6438619
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:47

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6902 SDG#: DE269-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112901026001D	10/18/2011 07:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112901026001A	10/18/2011 07:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112901026001A	10/18/2011 07:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112901026001A	10/18/2011 07:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112901026001A	10/18/2011 07:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112901026001A	10/18/2011 07:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112901026001A	10/18/2011 07:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112901026001C	10/18/2011 07:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112901026001A	10/18/2011 07:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112901026001B	10/18/2011 07:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112901026001A	10/18/2011 07:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112901026001A	10/18/2011 07:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112901026001A	10/18/2011 07:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112901026001A	10/18/2011 07:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112905711002	10/18/2011 09:57	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112905708002	10/17/2011 22:40	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112985708002	10/25/2011 22:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112901026001	10/17/2011 22:42	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112905711002	10/18/2011 02:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11299621201A	10/27/2011 12:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11293621201B	10/20/2011 15:59	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11292243201A	10/20/2011 17:28	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11299621201A	10/26/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621201B	10/20/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11299039402A	10/26/2011 15:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11292243201A	10/19/2011 09:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-036-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438620
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:38

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6903 SDG#: DE269-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-036-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438620
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:38

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6903 SDG#: DE269-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.3	J	6.8	20		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,200		6.73	22.2		1
07914	Boron	7440-42-8	0.400	U	0.400	5.56		1
01650	Calcium	7440-70-2	7,650		2.78	22.2		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-036-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438620
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:38

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6903 SDG#: DE269-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	33,700	5.81	44.5		2
01656	Lithium	7439-93-2	32.7	0.69	2.2		1
01657	Magnesium	7439-95-4	8,690	0.489	11.1		1
06958	Manganese	7439-96-5	352	0.0400	0.556		1
10145	Phosphorus	7723-14-0	635	0.389	11.1		1
01662	Potassium	7440-09-7	3,350	12.7	56.2		1
01667	Sodium	7440-23-5	166	6.68	112		1
07968	Strontium	7440-24-6	59.3	0.0278	0.556		1
06969	Tin	7440-31-5	2.64 J	0.356	11.1		1
06970	Titanium	7440-32-6	1,650	0.0790	1.11		1
10146	Zirconium	7440-67-7	8.51	0.512	5.56		1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.276	0.0831	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	10.4	0.0898	0.449		2
06126	Barium	7440-39-3	112	0.119	0.449		2
06127	Beryllium	7440-41-7	1.04	0.0180	0.112		2
06128	Cadmium	7440-43-9	0.0551 J	0.0494	0.112		2
06131	Chromium	7440-47-3	28.3	0.135	0.449		2
06132	Cobalt	7440-48-4	13.0	0.0225	0.112		2
06133	Copper	7440-50-8	32.6	0.0898	0.449		2
06135	Lead	7439-92-1	17.3	0.0115	0.225		2
06138	Molybdenum	7439-98-7	0.376	0.0562	0.112		2
06139	Nickel	7440-02-0	20.8	0.112	0.449		2
06141	Selenium	7782-49-2	0.110 J	0.0651	0.449		2
06142	Silver	7440-22-4	0.0159 U	0.0159	0.112		2
06145	Thallium	7440-28-0	0.451	0.0337	0.112		2
06148	Vanadium	7440-62-2	74.7	0.0247	0.112		2
06149	Zinc	7440-66-6	101	0.629	3.37		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0194 J	0.0079	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3	0.93	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.4		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.2		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-036-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438620
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:38

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6903 SDG#: DE269-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.39	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11291SLD026	10/21/2011 07:31	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11291SLE026	10/21/2011 15:11	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11291SLE026	10/18/2011 21:35	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11291SLD026	10/18/2011 21:35	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113010003A	11/02/2011 04:44	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	113010003A	10/28/2011 18:15	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	112905708002	10/25/2011 03:13	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112905708002	10/25/2011 03:13	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112905708002	10/25/2011 03:13	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112905708002	10/25/2011 20:13	John P Hook	2
01656	Lithium	SW-846 6010B	1	112905708002	10/25/2011 03:13	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112905708002	10/25/2011 03:13	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112905708002	10/25/2011 03:13	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112905708002	10/25/2011 03:13	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112985708002	10/26/2011 11:00	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112985708002	10/26/2011 11:00	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112905708002	10/25/2011 03:13	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112905708002	10/25/2011 03:13	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112905708002	10/25/2011 03:13	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112905708002	10/25/2011 03:13	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112901026001A	10/18/2011 08:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112901026001A	10/18/2011 08:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112901026001D	10/18/2011 08:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112901026001A	10/18/2011 08:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112901026001A	10/18/2011 08:00	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-036-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438620
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:38

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6903 SDG#: DE269-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112901026001A	10/18/2011 08:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112901026001A	10/18/2011 08:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112901026001A	10/18/2011 08:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112901026001A	10/18/2011 08:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112901026001C	10/18/2011 08:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112901026001A	10/18/2011 08:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112901026001B	10/18/2011 08:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112901026001A	10/18/2011 08:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112901026001A	10/18/2011 08:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112901026001A	10/18/2011 08:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112901026001A	10/18/2011 08:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112905711002	10/18/2011 09:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112905708002	10/17/2011 22:40	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112985708002	10/25/2011 22:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112901026001	10/17/2011 22:42	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112905711002	10/18/2011 02:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11299621201A	10/27/2011 12:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11293621201B	10/20/2011 16:22	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11292243201A	10/20/2011 17:43	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11299621201A	10/26/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621201B	10/20/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11299039402A	10/26/2011 15:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11292243201A	10/19/2011 09:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

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Analysis Report

Sample Description: SL-036-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438621
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:34

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6904 SDG#: DE269-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-036-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438621
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:34

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6904 SDG#: DE269-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside of the method required holding time, and surrogate recoveries are within the QC

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-036-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438621
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:34

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6904 SDG#: DE269-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	acceptance limits. Since the hold time had expired prior to the second extraction all results are reported from the original extract. Similar results were obtained in both extracts.							
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside of the method required holding time, and LCS/LCSD recoveries are within the QC acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both trials with the exception of:							
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	31,400		6.69	22.1		1
07914	Boron	7440-42-8	0.398	U	0.398	5.53		1
01650	Calcium	7440-70-2	18,600		2.77	22.1		1
01654	Iron	7439-89-6	32,600		5.78	44.3		2
01656	Lithium	7439-93-2	30.9		0.69	2.2		1
01657	Magnesium	7439-95-4	6,960		0.487	11.1		1
06958	Manganese	7439-96-5	366		0.0398	0.553		1
10145	Phosphorus	7723-14-0	192		0.387	11.1		1
01662	Potassium	7440-09-7	3,050		12.7	56.4		1
01667	Sodium	7440-23-5	130		6.71	113		1
07968	Strontium	7440-24-6	51.6		0.0277	0.553		1
06969	Tin	7440-31-5	2.81	J	0.354	11.1		1
06970	Titanium	7440-32-6	1,650		0.0786	1.11		1
10146	Zirconium	7440-67-7	5.63		0.509	5.53		1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.201	J	0.0835	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.22		0.0903	0.451		2
06126	Barium	7440-39-3	150		0.120	0.451		2
06127	Beryllium	7440-41-7	0.929		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.172		0.0496	0.113		2
06131	Chromium	7440-47-3	36.9		0.135	0.451		2
06132	Cobalt	7440-48-4	13.4		0.0226	0.113		2
06133	Copper	7440-50-8	16.7		0.0903	0.451		2
06135	Lead	7439-92-1	10.6		0.0115	0.226		2
06138	Molybdenum	7439-98-7	0.517		0.0564	0.113		2
06139	Nickel	7440-02-0	20.5		0.113	0.451		2
06141	Selenium	7782-49-2	0.175	J	0.0654	0.451		2
06142	Silver	7440-22-4	0.0257	J	0.0160	0.113		2
06145	Thallium	7440-28-0	0.398		0.0338	0.113		2
06148	Vanadium	7440-62-2	77.1		0.0248	0.113		2
06149	Zinc	7440-66-6	77.1		0.632	3.38		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-036-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438621
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:34

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6904 SDG#: DE269-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 7471A**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0077 U	0.0077	0.109		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.9	0.93	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4	34.5		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.39	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.1	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11291SLD026	10/21/2011 07:56	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11291SLE026	10/21/2011 15:43	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11291SLE026	10/18/2011 21:35	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11291SLD026	10/18/2011 21:35	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112910025A	10/21/2011 12:46	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112910025A	10/19/2011 12:00	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	112905708002	10/25/2011 03:17	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112905708002	10/25/2011 03:17	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112905708002	10/25/2011 03:17	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112905708002	10/25/2011 20:17	John P Hook	2
01656	Lithium	SW-846 6010B	1	112905708002	10/25/2011 03:17	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112905708002	10/25/2011 03:17	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-036-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438621
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:34

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6904 SDG#: DE269-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	112905708002	10/25/2011 03:17	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112905708002	10/25/2011 03:17	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112985708002	10/26/2011 11:04	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112985708002	10/26/2011 11:04	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112905708002	10/25/2011 03:17	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112905708002	10/25/2011 03:17	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112905708002	10/25/2011 03:17	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112905708002	10/25/2011 03:17	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112901026001A	10/18/2011 08:03	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112901026001A	10/18/2011 08:03	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112901026001D	10/18/2011 08:03	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112901026001A	10/18/2011 08:03	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112901026001A	10/18/2011 08:03	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112901026001A	10/18/2011 08:03	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112901026001A	10/18/2011 08:03	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112901026001A	10/18/2011 08:03	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112901026001A	10/18/2011 08:03	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112901026001C	10/18/2011 08:03	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112901026001A	10/18/2011 08:03	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112901026001B	10/18/2011 08:03	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112901026001A	10/18/2011 08:03	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112901026001A	10/18/2011 08:03	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112901026001A	10/18/2011 08:03	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112901026001A	10/18/2011 08:03	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112905711002	10/18/2011 10:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112905708002	10/17/2011 22:40	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112985708002	10/25/2011 22:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112901026001	10/17/2011 22:42	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112905711002	10/18/2011 02:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11299621201A	10/27/2011 12:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11293621201B	10/20/2011 16:45	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11292243201A	10/20/2011 17:57	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11299621201A	10/26/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621201B	10/20/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11299039402A	10/26/2011 15:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11292243201A	10/19/2011 09:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-037-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438622
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 09:47

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6905 SDG#: DE269-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U	190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1

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Sample Description: **SL-037-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438622
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 09:47

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6905 SDG#: DE269-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.76	U	0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U	0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U	0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U	0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U	0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U	0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	21		1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U	0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	21		1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	21		1
10138	Fluoranthene	206-44-0	0.76	U	0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U	0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U	0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U	0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U	0.76	1.9		1
10138	Naphthalene	91-20-3	0.76	U	0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U	0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	21		1
10138	Phenanthrene	85-01-8	0.76	U	0.76	1.9		1
10138	Pyrene	129-00-0	0.76	U	0.76	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38	U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.38	U	0.38	2.0		1
10225	PCB-1232	11141-16-5	0.38	U	0.38	2.0		1
10225	PCB-1242	53469-21-9	0.38	U	0.38	2.0		1
10225	PCB-1248	12672-29-6	0.38	U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38	U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.45	U	0.45	2.0		1
10225	PCB-1262	37324-23-5	0.38	U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U	0.38	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	36,300		6.89	22.8		1
07914	Boron	7440-42-8	5.93		0.410	5.70		1
01650	Calcium	7440-70-2	14,200		2.85	22.8		1

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Sample Description: **SL-037-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438622
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 09:47

Submitted: 10/15/2011 09:45
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CDM Federal Programs Corp.
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Suite 210
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E6905 SDG#: DE269-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	35,200		5.95	45.6		2
01656	Lithium	7439-93-2	31.4		0.71	2.3		1
01657	Magnesium	7439-95-4	8,110		0.501	11.4		1
06958	Manganese	7439-96-5	468		0.0410	0.570		1
10145	Phosphorus	7723-14-0	152		0.399	11.4		1
01662	Potassium	7440-09-7	3,700		12.7	56.4		1
01667	Sodium	7440-23-5	166		6.71	113		1
07968	Strontium	7440-24-6	66.2		0.0285	0.570		1
06969	Tin	7440-31-5	2.87	J	0.365	11.4		1
06970	Titanium	7440-32-6	1,620		0.0809	1.14		1
10146	Zirconium	7440-67-7	4.87	J	0.524	5.70		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.308		0.0835	0.226		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.69		0.0903	0.451		2
06126	Barium	7440-39-3	179		0.120	0.451		2
06127	Beryllium	7440-41-7	1.01		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.155		0.0496	0.113		2
06131	Chromium	7440-47-3	38.9		0.135	0.451		2
06132	Cobalt	7440-48-4	12.8		0.0226	0.113		2
06133	Copper	7440-50-8	17.2		0.0903	0.451		2
06135	Lead	7439-92-1	11.3		0.0115	0.226		2
06138	Molybdenum	7439-98-7	0.524		0.0564	0.113		2
06139	Nickel	7440-02-0	23.4		0.113	0.451		2
06141	Selenium	7782-49-2	0.142	J	0.0654	0.451		2
06142	Silver	7440-22-4	0.0479	J	0.0160	0.113		2
06145	Thallium	7440-28-0	0.482		0.0338	0.113		2
06148	Vanadium	7440-62-2	77.7		0.0248	0.113		2
06149	Zinc	7440-66-6	84.3		0.632	3.38		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0079	U	0.0079	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.7		0.92	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U	10.4	34.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.31	J	0.23	1.2		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-037-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438622
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 09:47

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6905 SDG#: DE269-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.29	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	13.1	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11291SLD026	10/21/2011	08:21	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11291SLE026	10/22/2011	00:11	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11291SLE026	10/18/2011	21:35	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11291SLD026	10/18/2011	21:35	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113010003A	11/02/2011	05:02	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	113010003A	10/28/2011	18:15	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	112905708002	10/25/2011	03:21	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112905708002	10/25/2011	20:29	John P Hook	1
01650	Calcium	SW-846 6010B	1	112905708002	10/25/2011	03:21	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112905708002	10/25/2011	20:33	John P Hook	2
01656	Lithium	SW-846 6010B	1	112905708002	10/25/2011	03:21	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112905708002	10/25/2011	03:21	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112905708002	10/25/2011	03:21	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112905708002	10/25/2011	03:21	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112985708002	10/26/2011	11:07	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112985708002	10/26/2011	11:07	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112905708002	10/25/2011	03:21	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112905708002	10/25/2011	03:21	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112905708002	10/25/2011	03:21	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112905708002	10/25/2011	03:21	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112901026001A	10/18/2011	08:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112901026001A	10/18/2011	08:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112901026001D	10/18/2011	08:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112901026001A	10/18/2011	08:06	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-037-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438622
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 09:47

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6905 SDG#: DE269-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112901026001A	10/18/2011 08:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112901026001A	10/18/2011 08:06	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112901026001A	10/18/2011 08:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112901026001A	10/18/2011 08:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112901026001A	10/18/2011 08:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112901026001C	10/18/2011 08:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112901026001A	10/18/2011 08:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112901026001B	10/18/2011 08:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112901026001A	10/18/2011 08:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112901026001A	10/18/2011 08:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112901026001A	10/18/2011 08:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112901026001A	10/18/2011 08:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112905711002	10/18/2011 10:04	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112905708002	10/17/2011 22:40	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112985708002	10/25/2011 22:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112901026001	10/17/2011 22:42	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112905711002	10/18/2011 02:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11299621201A	10/27/2011 13:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11293621201B	10/20/2011 17:08	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11292243201A	10/20/2011 18:19	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11299621201A	10/26/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621201B	10/20/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11299039402A	10/26/2011 15:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11292243201A	10/19/2011 09:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-037-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438623
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 09:05

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6906 SDG#: DE269-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	27	J	19	390		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-037-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438623
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 09:05

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6906 SDG#: DE269-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	19	U	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.79	U	0.79	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U	0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U	0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.79	U	0.79	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.79	U	0.79	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.79	U	0.79	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	U	0.79	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.79	U	0.79	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.1	U	7.1	21		1
10138	Di-n-butylphthalate	84-74-2	7.1	U	7.1	21		1
10138	Chrysene	218-01-9	0.39	U	0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.79	U	0.79	2.0		1
10138	Diethylphthalate	84-66-2	7.1	U	7.1	21		1
10138	Dimethylphthalate	131-11-3	7.1	U	7.1	21		1
10138	Fluoranthene	206-44-0	0.79	U	0.79	2.0		1
10138	Fluorene	86-73-7	0.79	U	0.79	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.79	U	0.79	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.79	U	0.79	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.79	U	0.79	2.0		1
10138	Naphthalene	91-20-3	0.79	U	0.79	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.79	U	0.79	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.1	U	7.1	21		1
10138	Phenanthrene	85-01-8	0.79	U	0.79	2.0		1
10138	Pyrene	129-00-0	0.79	U	0.79	2.0		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	40,000		6.94	23.0		1
07914	Boron	7440-42-8	7.06		0.413	5.74		1
01650	Calcium	7440-70-2	8,540		2.87	23.0		1

*=This limit was used in the evaluation of the final result
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Sample Description: **SL-037-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438623
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 09:05

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6906 SDG#: DE269-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	40,800		5.99	45.9		2
01656	Lithium	7439-93-2	37.5		0.71	2.3		1
01657	Magnesium	7439-95-4	10,200		0.505	11.5		1
06958	Manganese	7439-96-5	277		0.0413	0.574		1
10145	Phosphorus	7723-14-0	240		0.402	11.5		1
01662	Potassium	7440-09-7	4,230		13.0	57.4		1
01667	Sodium	7440-23-5	240		6.83	115		1
07968	Strontium	7440-24-6	65.8		0.0287	0.574		1
06969	Tin	7440-31-5	3.17	J	0.367	11.5		1
06970	Titanium	7440-32-6	1,570		0.0815	1.15		1
10146	Zirconium	7440-67-7	4.87	J	0.528	5.74		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.378		0.0858	0.232		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.96		0.0927	0.464		2
06126	Barium	7440-39-3	199		0.123	0.464		2
06127	Beryllium	7440-41-7	1.27		0.0185	0.116		2
06128	Cadmium	7440-43-9	0.0708	J	0.0510	0.116		2
06131	Chromium	7440-47-3	47.6		0.139	0.464		2
06132	Cobalt	7440-48-4	17.6		0.0232	0.116		2
06133	Copper	7440-50-8	25.8		0.0927	0.464		2
06135	Lead	7439-92-1	13.9		0.0118	0.232		2
06138	Molybdenum	7439-98-7	0.872		0.0579	0.116		2
06139	Nickel	7440-02-0	30.5		0.116	0.464		2
06141	Selenium	7782-49-2	0.172	J	0.0672	0.464		2
06142	Silver	7440-22-4	0.0232	J	0.0165	0.116		2
06145	Thallium	7440-28-0	0.594		0.0348	0.116		2
06148	Vanadium	7440-62-2	96.5		0.0255	0.116		2
06149	Zinc	7440-66-6	109		0.649	3.48		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0079	U	0.0079	0.112		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	11.8		0.96	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6	U	10.6	35.5		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	U	0.24	1.2		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-037-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438623
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 09:05

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6906 SDG#: DE269-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.30	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	15.4	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11291SLD026	10/21/2011 08:47	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11291SLE026	10/22/2011 00:44	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11291SLE026	10/18/2011 21:35	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11291SLD026	10/18/2011 21:35	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113010003A	11/02/2011 05:21	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	113010003A	10/28/2011 18:15	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	112905708002	10/25/2011 03:27	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112905708002	10/25/2011 20:37	John P Hook	1
01650	Calcium	SW-846 6010B	1	112905708002	10/25/2011 03:27	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112905708002	10/25/2011 20:42	John P Hook	2
01656	Lithium	SW-846 6010B	1	112905708002	10/25/2011 03:27	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112905708002	10/25/2011 03:27	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112905708002	10/25/2011 03:27	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112905708002	10/25/2011 03:27	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112985708002	10/26/2011 11:11	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112985708002	10/26/2011 11:11	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112905708002	10/25/2011 03:27	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112905708002	10/25/2011 03:27	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112905708002	10/25/2011 03:27	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112905708002	10/25/2011 03:27	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112901026001A	10/18/2011 08:09	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112901026001A	10/18/2011 08:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112901026001D	10/18/2011 08:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112901026001A	10/18/2011 08:09	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-037-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438623
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 09:05

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6906 SDG#: DE269-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112901026001A	10/18/2011 08:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112901026001A	10/18/2011 08:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112901026001A	10/18/2011 08:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112901026001A	10/18/2011 08:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112901026001A	10/18/2011 08:09	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112901026001C	10/18/2011 08:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112901026001A	10/18/2011 08:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112901026001B	10/18/2011 08:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112901026001A	10/18/2011 08:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112901026001A	10/18/2011 08:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112901026001A	10/18/2011 08:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112901026001A	10/18/2011 08:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112905711002	10/18/2011 10:05	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112905708002	10/17/2011 22:40	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112985708002	10/25/2011 22:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112901026001	10/17/2011 22:42	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112905711002	10/18/2011 02:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11299621201A	10/27/2011 13:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11293621201B	10/20/2011 17:54	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11292243201A	10/20/2011 18:26	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11299621201A	10/26/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621201B	10/20/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11299039402A	10/26/2011 15:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11292243201A	10/19/2011 09:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-038-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438624
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:00

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6907 SDG#: DE269-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-038-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438624
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:00

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6907 SDG#: DE269-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.1	J	6.4	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,200		6.48	21.4		1
07914	Boron	7440-42-8	0.385	U	0.385	5.35		1
01650	Calcium	7440-70-2	34,600		2.68	21.4		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-038-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438624
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:00

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6907 SDG#: DE269-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	27,200		2.79	21.4		1
01656	Lithium	7439-93-2	28.9		0.66	2.1		1
01657	Magnesium	7439-95-4	6,980		0.471	10.7		1
06958	Manganese	7439-96-5	328		0.0385	0.535		1
10145	Phosphorus	7723-14-0	573		0.375	10.7		1
01662	Potassium	7440-09-7	3,760		12.2	54.0		1
01667	Sodium	7440-23-5	135		6.43	108		1
07968	Strontium	7440-24-6	60.3		0.0268	0.535		1
06969	Tin	7440-31-5	2.50	J	0.342	10.7		1
06970	Titanium	7440-32-6	1,300		0.0760	1.07		1
10146	Zirconium	7440-67-7	4.26	J	0.492	5.35		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.188	J	0.0808	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.74		0.0873	0.437		2
06126	Barium	7440-39-3	116		0.116	0.437		2
06127	Beryllium	7440-41-7	0.688		0.0175	0.109		2
06128	Cadmium	7440-43-9	0.194		0.0480	0.109		2
06131	Chromium	7440-47-3	33.6		0.131	0.437		2
06132	Cobalt	7440-48-4	10.6		0.0218	0.109		2
06133	Copper	7440-50-8	13.1		0.0873	0.437		2
06135	Lead	7439-92-1	8.01		0.0111	0.218		2
06138	Molybdenum	7439-98-7	0.443		0.0546	0.109		2
06139	Nickel	7440-02-0	17.9		0.109	0.437		2
06141	Selenium	7782-49-2	0.199	J	0.0633	0.437		2
06142	Silver	7440-22-4	0.0220	J	0.0155	0.109		2
06145	Thallium	7440-28-0	0.305		0.0328	0.109		2
06148	Vanadium	7440-62-2	65.0		0.0240	0.109		2
06149	Zinc	7440-66-6	68.8		0.611	3.28		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0074	U	0.0074	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.6		0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

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Sample Description: SL-038-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438624
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:00

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6907 SDG#: DE269-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.42	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.4	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11291SLD026	10/21/2011	09:12	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11291SLE026	10/22/2011	01:17	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11291SLE026	10/18/2011	21:35	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11291SLD026	10/18/2011	21:35	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113010003A	11/02/2011	05:40	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	113010003A	10/28/2011	18:15	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	112905708002	10/25/2011	03:31	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112905708002	10/25/2011	03:31	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112905708002	10/25/2011	03:31	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112905708002	10/25/2011	03:31	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112905708002	10/25/2011	03:31	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112905708002	10/25/2011	03:31	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112905708002	10/25/2011	03:31	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112905708002	10/25/2011	03:31	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112985708002	10/26/2011	11:15	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112985708002	10/26/2011	11:15	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112905708002	10/25/2011	03:31	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112905708002	10/25/2011	03:31	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112905708002	10/25/2011	03:31	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112905708002	10/25/2011	03:31	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112901026001A	10/18/2011	08:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112901026001A	10/18/2011	08:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112901026001D	10/18/2011	08:18	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112901026001A	10/18/2011	08:18	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-038-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438624
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:00

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6907 SDG#: DE269-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112901026001A	10/18/2011 08:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112901026001A	10/18/2011 08:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112901026001A	10/18/2011 08:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112901026001A	10/18/2011 08:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112901026001A	10/18/2011 08:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112901026001C	10/18/2011 08:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112901026001A	10/18/2011 08:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112901026001B	10/18/2011 08:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112901026001A	10/18/2011 08:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112901026001A	10/18/2011 08:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112901026001A	10/18/2011 08:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112901026001A	10/18/2011 08:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112905711002	10/18/2011 10:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112905708002	10/17/2011 22:40	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112985708002	10/25/2011 22:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112901026001	10/17/2011 22:42	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112905711002	10/18/2011 02:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11299621201A	10/27/2011 14:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11293621201B	10/20/2011 18:17	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11292243201A	10/20/2011 18:48	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11299621201A	10/26/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621201B	10/20/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11299039402B	10/26/2011 15:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11292243201A	10/19/2011 09:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-038-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438625
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 10:27

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6908 SDG#: DE269-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-038-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438625
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 10:27

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6908 SDG#: DE269-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.0	J	6.5	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,500		6.46	21.4		1
07914	Boron	7440-42-8	0.385	U	0.385	5.34		1
01650	Calcium	7440-70-2	7,550		2.67	21.4		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-038-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438625
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 10:27

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6908 SDG#: DE269-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	27,100		2.79	21.4		1
01656	Lithium	7439-93-2	23.3		0.66	2.1		1
01657	Magnesium	7439-95-4	5,830		0.470	10.7		1
06958	Manganese	7439-96-5	363		0.0385	0.534		1
10145	Phosphorus	7723-14-0	440		0.374	10.7		1
01662	Potassium	7440-09-7	2,800		11.8	52.4		1
01667	Sodium	7440-23-5	120		6.23	105		1
07968	Strontium	7440-24-6	38.0		0.0267	0.534		1
06969	Tin	7440-31-5	2.73	J	0.342	10.7		1
06970	Titanium	7440-32-6	1,340		0.0758	1.07		1
10146	Zirconium	7440-67-7	6.16		0.491	5.34		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.221		0.0775	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.82		0.0838	0.419		2
06126	Barium	7440-39-3	117		0.111	0.419		2
06127	Beryllium	7440-41-7	0.794		0.0168	0.105		2
06128	Cadmium	7440-43-9	0.146		0.0461	0.105		2
06131	Chromium	7440-47-3	40.4		0.126	0.419		2
06132	Cobalt	7440-48-4	10.0		0.0209	0.105		2
06133	Copper	7440-50-8	10.6		0.0838	0.419		2
06135	Lead	7439-92-1	8.06		0.0107	0.209		2
06138	Molybdenum	7439-98-7	0.530		0.0524	0.105		2
06139	Nickel	7440-02-0	18.8		0.105	0.419		2
06141	Selenium	7782-49-2	0.122	J	0.0607	0.419		2
06142	Silver	7440-22-4	0.0413	J	0.0149	0.105		2
06145	Thallium	7440-28-0	0.303		0.0314	0.105		2
06148	Vanadium	7440-62-2	72.6		0.0230	0.105		2
06149	Zinc	7440-66-6	64.9		0.587	3.14		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	U	0.0073	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.86	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.4		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	J	0.21	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-038-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438625
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 10:27

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6908 SDG#: DE269-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.41	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	7.3	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11291SLD026	10/21/2011	09:37	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11291SLE026	10/22/2011	01:50	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11291SLE026	10/18/2011	21:35	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11291SLD026	10/18/2011	21:35	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113010003A	11/02/2011	05:59	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	113010003A	10/28/2011	18:15	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	112905708002	10/25/2011	03:36	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112905708002	10/25/2011	03:36	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	112905708002	10/25/2011	03:36	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112905708002	10/25/2011	03:36	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112905708002	10/25/2011	03:36	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112905708002	10/25/2011	03:36	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112905708002	10/25/2011	03:36	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112905708002	10/25/2011	03:36	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112985708002	10/26/2011	11:19	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112985708002	10/26/2011	11:19	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112905708002	10/25/2011	03:36	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112905708002	10/25/2011	03:36	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112905708002	10/25/2011	03:36	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112905708002	10/25/2011	03:36	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112901026001A	10/18/2011	08:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112901026001A	10/18/2011	08:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112901026001D	10/18/2011	08:21	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112901026001A	10/18/2011	08:21	Choon Y Tian	2

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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-038-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438625
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 10:27

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6908 SDG#: DE269-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112901026001A	10/18/2011 08:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112901026001A	10/18/2011 08:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112901026001A	10/18/2011 08:21	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112901026001A	10/18/2011 08:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112901026001A	10/18/2011 08:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112901026001C	10/18/2011 08:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112901026001A	10/18/2011 08:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112901026001B	10/18/2011 08:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112901026001A	10/18/2011 08:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112901026001A	10/18/2011 08:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112901026001A	10/18/2011 08:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112901026001A	10/18/2011 08:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112905711002	10/18/2011 10:08	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112905708002	10/17/2011 22:40	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112985708002	10/25/2011 22:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112901026001	10/17/2011 22:42	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112905711002	10/18/2011 02:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11299621201A	10/27/2011 14:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11293621201B	10/20/2011 18:40	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11292243201A	10/20/2011 19:02	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11299621201A	10/26/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621201B	10/20/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11299039402B	10/26/2011 15:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11292243201A	10/19/2011 09:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-164-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA7-SB-0.5-1.5

LLI Sample # SW 6438626
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 14:20

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6909 SDG#: DE269-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	16.9	U	16.9	33.8		1
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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Sample Description: SL-164-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA7-SB-0.5-1.5

LLI Sample # SW 6438626
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 14:20

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6909 SDG#: DE269-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	J	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.68	U	0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.77	J	0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.5	J	0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.68	U	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	4.3		0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	19		6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	1.3	J	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	75		6.1	18		1
10138	Fluoranthene	206-44-0	2.1		0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	0.97	J	0.68	1.7		1
10138	Pyrene	129-00-0	1.6	J	0.68	1.7		1
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	60	U	60	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	40	U	40	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	80	U	80	240	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	80	U	80	240	10000000	1

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Sample Description: SL-164-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA7-SB-0.5-1.5

LLI Sample # SW 6438626
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 14:20

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6909 SDG#: DE269-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/kg		ug/kg	ug/kg	ug/kg	
10132	1,3-Dinitrobenzene	99-65-0	40	U	40	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	40	U	40	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	40	U	40	120	10000000	1
10132	HMX	2691-41-0	100	U	100	300	10000000	1
10132	Nitrobenzene	98-95-3	40	U	40	120	10000000	1
10132	Nitroglycerin	55-63-0	800	U	800	2,400	10000000	1
10132	2-Nitrotoluene	88-72-2	80	U	80	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	80	U	80	120	10000000	1
10132	PETN	78-11-5	800	U	800	2,400	10000000	1
10132	RDX	121-82-4	50	U	50	120	10000000	1
10132	Tetryl	479-45-8	61	U	61	120	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	40	U	40	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	40	U	40	120	10000000	1
HPLC Organics	**SW-846 8315A**		ug/kg		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	610	U	610	1,500		1
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	0.80	J	0.34	1.7		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-164-SA7-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-164-SA7-SB-0.5-1.5

LLI Sample # SW 6438626
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 14:20

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6909 SDG#: DE269-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	2.9		0.41	1.2		1
10199	EFH (C21-C30)	n.a.	19		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	28		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	1.6		0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,600		6.06	20.0		1
07914	Boron	7440-42-8	0.361	U	0.361	5.01		1
01650	Calcium	7440-70-2	3,260		2.50	20.0		1
01654	Iron	7439-89-6	21,200		2.61	20.0		1
01656	Lithium	7439-93-2	20.9		0.62	2.0		1
01657	Magnesium	7439-95-4	5,890		0.441	10.0		1
06958	Manganese	7439-96-5	293		0.0361	0.501		1
10145	Phosphorus	7723-14-0	376		0.350	10.0		1
01662	Potassium	7440-09-7	1,980		11.5	51.1		1
01667	Sodium	7440-23-5	73.0	J	6.08	102		1
07968	Strontium	7440-24-6	14.1		0.0250	0.501		1
06969	Tin	7440-31-5	2.45	J	0.320	10.0		1
06970	Titanium	7440-32-6	1,170		0.0711	1.00		1
10146	Zirconium	7440-67-7	0.552	J	0.461	5.01		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.117	J	0.0741	0.200		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.58		0.0801	0.401		2
06126	Barium	7440-39-3	88.2		0.106	0.401		2
06127	Beryllium	7440-41-7	0.573		0.0160	0.100		2
06128	Cadmium	7440-43-9	0.0866	J	0.0441	0.100		2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-164-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA7-SB-0.5-1.5

LLI Sample # SW 6438626
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 14:20

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6909 SDG#: DE269-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06131	Chromium	7440-47-3	22.4		0.120	0.401		2
06132	Cobalt	7440-48-4	6.94		0.0200	0.100		2
06133	Copper	7440-50-8	10.1		0.0801	0.401		2
06135	Lead	7439-92-1	5.70		0.0102	0.200		2
06138	Molybdenum	7439-98-7	0.478		0.0501	0.100		2
06139	Nickel	7440-02-0	16.0		0.100	0.401		2
06141	Selenium	7782-49-2	0.201	J	0.0581	0.401		2
06142	Silver	7440-22-4	0.0314	J	0.0142	0.100		2
06145	Thallium	7440-28-0	0.249		0.0300	0.100		2
06148	Vanadium	7440-62-2	41.3		0.0220	0.100		2
06149	Zinc	7440-66-6	62.3		0.561	3.00		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0107	J	0.0070	0.0992		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7		0.81	1.0		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.5		0.81	1.5		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.27	J	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.47		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-164-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA7-SB-0.5-1.5

LLI Sample # SW 6438626
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 14:20

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6909 SDG#: DE269-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11291SLG026	11/02/2011 01:36	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11291SLD026	10/21/2011 10:02	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11291SLE026	10/22/2011 02:23	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11291SLG026	10/19/2011 06:50	Katheryne V Sponheimer	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11291SLE026	10/18/2011 21:35	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	11291SLD026	10/18/2011 21:35	Karen L Beyer	1
10132	15a Energetics by 8330A	SW-846 8330A	1	112880015A	10/21/2011 10:19	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112910003A	10/19/2011 22:25	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113010003A	11/02/2011 06:18	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	113010003A	10/28/2011 18:15	Sally L Appleyard	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112910003A	10/18/2011 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	112880015A	10/17/2011 17:00	Kelli M Barto	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112900028A	10/18/2011 22:51	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112980042A	10/25/2011 23:29	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112920028A	10/21/2011 21:15	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112920027A	10/21/2011 06:26	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112920027A	10/20/2011 12:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	112920028A	10/20/2011 12:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112900028A	10/18/2011 17:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112980042A	10/25/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112905708002	10/25/2011 03:47	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	112905708002	10/25/2011 20:46	John P Hook	1
01650	Calcium	SW-846 6010B	1	112905708002	10/25/2011 03:47	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	112905708002	10/25/2011 03:47	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	112905708002	10/25/2011 03:47	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	112905708002	10/25/2011 03:47	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	112905708002	10/25/2011 03:47	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	112905708002	10/25/2011 03:47	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	112985708002	10/26/2011 11:22	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112985708002	10/26/2011 11:22	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112905708002	10/25/2011 03:47	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	112905708002	10/25/2011 03:47	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	112905708002	10/25/2011 03:47	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112905708002	10/25/2011 03:47	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	112901026001A	10/18/2011 08:24	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112901026001A	10/18/2011 08:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112901026001D	10/18/2011 08:24	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112901026001A	10/18/2011 08:24	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112901026001A	10/18/2011 08:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112901026001A	10/18/2011 08:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112901026001A	10/18/2011 08:24	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-164-SA7-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-164-SA7-SB-0.5-1.5

LLI Sample # SW 6438626
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 14:20

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6909 SDG#: DE269-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	112901026001A	10/18/2011 08:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112901026001A	10/18/2011 08:24	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112901026001C	10/18/2011 08:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112901026001A	10/18/2011 08:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112901026001B	10/18/2011 08:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112901026001A	10/18/2011 08:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112901026001A	10/18/2011 08:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112901026001A	10/18/2011 08:24	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112901026001A	10/18/2011 08:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112905711002	10/18/2011 10:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112905708002	10/17/2011 22:40	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	112985708002	10/25/2011 22:27	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112901026001	10/17/2011 22:42	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112905711002	10/18/2011 02:05	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11299621201B	10/27/2011 15:18	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11299621201B	10/27/2011 15:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11293621201B	10/20/2011 19:04	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11292243201A	10/20/2011 19:09	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11293102201B	10/21/2011 08:16	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11299621201B	10/26/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621201B	10/20/2011 06:30	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11293102201B	10/20/2011 15:35	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11299039402B	10/26/2011 15:00	Michele L Graham	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11292243201A	10/19/2011 09:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA3-SB-101411 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA3-SB-101411

LLI Sample # WW 6438627
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 14:00

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6910 SDG#: DE269-10EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/l	ng/l	ng/l	ng/l	
10962	N-Nitrosodimethylamine	62-75-9	1.20	0.492	0.984		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 1.33 ng/l. The blank value was not subtracted from the analytical result. Sufficient sample was unavailable to repeat the analysis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11290WAA026	11/01/2011 18:19	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11290WAA026	10/17/2011 13:55	Wanda F Oswald	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-101411 Water**
SSFL Area IV Collocated Soil Sampling
TB-101411

LLI Sample # WW 6438628
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 08:00

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6911 SDG#: DE269-11TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/l	ng/l	ng/l	ng/l	
10962	N-Nitrosodimethylamine	62-75-9	3.99	0.533	1.07		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of 1.33 ng/l. The blank value was not subtracted from the analytical result. Sufficient sample was unavailable to repeat the analysis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11290WAA026	11/01/2011 18:38	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11290WAA026	10/17/2011 13:55	Wanda F Oswald	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-101411 Sand**
SSFL Area IV Collocated Soil Sampling
TB-101411

LLI Sample # SW 6438629
LLI Group # 1271484
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 08:00

Submitted: 10/15/2011 09:45
Reported: 11/09/2011 11:09

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E6912 SDG#: DE269-12TB*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		ng/kg		ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	16.7	U	16.7	33.3		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	0.50	U	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11291SLG026	11/02/2011 01:55	Matthew S Woods	1
11630	NDMA Soil Microwave	SW-846 3546	1	11291SLG026	10/19/2011 06:50	Katheryne V Sponheimer	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271484
Reported: 11/09/11 at 11:09 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11290WAA026	Sample number(s): 6438627-6438628									
N-Nitrosodimethylamine	1.33		0.500	1.00	ng/l	101	107	70-130	6	30
Batch number: 11291SLD026	Sample number(s): 6438618-6438626									
Aniline	170 U		170.	500	ug/kg	68		20-115		
Benzidine	1,200 U		1,200.	3,300	ug/kg	57		15-121		
Benzoic acid	170 U		170.	500	ug/kg	65		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	91		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	101		73-114		
Carbazole	17	U	17.	170	ug/kg	99		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	97		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	47		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	94		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	90		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	91		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	94		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	96		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	97		74-115		
Dibenzofuran	17	U	17.	170	ug/kg	94		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	89		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	89		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	89		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	43		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	99		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	97		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	119		83-120		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	47		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	26		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	96		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	101		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	102		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	97		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	99		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	97		65-117		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	86		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	87		61-109		
Isophorone	17	U	17.	170	ug/kg	94		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	95		66-110		

*- Outside of specification

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(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271484
Reported: 11/09/11 at 11:09 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Methylphenol	33	U	33.	170	ug/kg	90		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	95		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	93		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	72		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	94		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	95		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	91		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	86		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	101		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	85		51-117		
Phenol	17	U	17.	170	ug/kg	95		58-112		
Tetralin	170	U	170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	93		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	96		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	99		78-111		
Batch number: 11291SLE026	Sample number(s): 6438618-6438626									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	94		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	91		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	96		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	99		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	95		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	96		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	105		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	99		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	87		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	92		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	103		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	107		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	93		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	96		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	106		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	102		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	101		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	105		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	89		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	88		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	91		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	102		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	98		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	94		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	89		72-119		
Batch number: 11291SLG026	Sample number(s): 6438626,6438629									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	105		70-130		
Batch number: 112880015A	Sample number(s): 6438626									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	109		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	106		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	87	90	54-134	4	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	86	90	54-134	4	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	110		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	101		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	106		80-120		
HMX	100		100.	300	ug/kg	93		74-130		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271484
Reported: 11/09/11 at 11:09 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Nitrobenzene	40	U	40.	120	ug/kg	106		80-120		
Nitroglycerin	800	U	800.	2,400	ug/kg	90		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	101		78-128		
3-Nitrotoluene	100	U	100.	120	ug/kg	108		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	101		80-120		
PETN	800	U	800.	2,400	ug/kg	104		80-120		
RDX	50	U	50.	120	ug/kg	102		75-131		
Tetryl	61	U	61.	120	ug/kg	96		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	104		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	108		80-120		
Batch number: 112910003A	Sample number(s): 6438626									
20a Formaldehyde 8315A	600	U	600.	1,500	ug/kg	91		80-126		
Batch number: 112910025A	Sample number(s): 6438618-6438619,6438621									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	69	66	36-106	4	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	67*		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	85		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 113010003A	Sample number(s): 6438620,6438622-6438626									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	70	68	36-106	3	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	80		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	95		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112900028A	Sample number(s): 6438626									
Ethanol	100	U	100.	500	ug/kg	89		71-129		
Isopropanol	100	U	100.	500	ug/kg	86		75-125		
Methanol	100	U	100.	500	ug/kg	90		68-129		
Batch number: 112980042A	Sample number(s): 6438626									
Diethylene glycol	5.0	U	5.0	10	mg/kg	100		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	106		53-149		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271484
Reported: 11/09/11 at 11:09 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Propylene glycol	5.0	U	5.0	10	mg/kg	99		67-131		
Batch number: 112920027A	Sample number(s): 6438626									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	94		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	96		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	97		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	85		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	83		49-107		
Batch number: 112920028A	Sample number(s): 6438626									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	100		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	105		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	98		69-109		
Batch number: 112901026001A	Sample number(s): 6438618-6438626									
Antimony	0.0740	U	0.0740	0.200	mg/kg	134		40-227		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	101		83-111		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	102		84-112		
Cadmium	0.0440	U	0.0440	0.100	mg/kg	105		83-111		
Chromium	0.120	U	0.120	0.400	mg/kg	111		77-123		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	108		85-114		
Copper	0.0800	U	0.0800	0.400	mg/kg	104		81-110		
Lead	0.0102	U	0.0102	0.200	mg/kg	104		84-112		
Nickel	0.100	U	0.100	0.400	mg/kg	104		81-110		
Silver	0.0142	U	0.0142	0.100	mg/kg	102		83-112		
Thallium	0.0300	U	0.0300	0.100	mg/kg	103		82-112		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	103		76-110		
Zinc	0.560	U	0.560	3.00	mg/kg	101		82-110		
Batch number: 112901026001B	Sample number(s): 6438618-6438626									
Selenium	0.0580	U	0.0580	0.400	mg/kg	102		79-110		
Batch number: 112901026001C	Sample number(s): 6438618-6438626									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	105		80-110		
Batch number: 112901026001D	Sample number(s): 6438618-6438626									
Barium	0.106	U	0.106	0.400	mg/kg	102		83-110		
Batch number: 112905708002	Sample number(s): 6438618-6438626									
Aluminum	6.05	U	6.05	20.0	mg/kg	99		40-127		
Boron	0.360	U	0.360	5.00	mg/kg	103		83-110		
Calcium	6.41	J	2.50	20.0	mg/kg	106		81-110		
Iron	2.61	U	2.61	20.0	mg/kg	101		47-129		
Lithium	0.62	U	0.62	2.0	mg/kg	102		80-120		
Magnesium	0.440	U	0.440	10.0	mg/kg	102		63-116		
Manganese	0.0360	U	0.0360	0.500	mg/kg	104		85-116		
Phosphorus	1.73	J	0.350	10.0	mg/kg	107		80-120		
Strontium	0.0510	J	0.0250	0.500	mg/kg	107		84-110		
Tin	1.44	J	0.320	10.0	mg/kg	104		86-120		
Titanium	0.0710	U	0.0710	1.00	mg/kg	93		80-120		
Zirconium	0.460	U	0.460	5.00	mg/kg	104		80-120		
Batch number: 112905711002	Sample number(s): 6438618-6438626									
Mercury	0.0070	U	0.0070	0.100	mg/kg	105		83-119		
Batch number: 112985708002	Sample number(s): 6438618-6438626									
Potassium	11.3	U	11.3	50.0	mg/kg	100		71-110		
Sodium	5.95	U	5.95	100	mg/kg	101		76-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271484
Reported: 11/09/11 at 11:09 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11292243201A	Sample number(s): 6438618-6438626									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	81		80-120		
Batch number: 11293102201B	Sample number(s): 6438626									
16a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	85		80-120		
Batch number: 11293621201B	Sample number(s): 6438618-6438626									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	108		85-115		
Batch number: 11299621201A	Sample number(s): 6438618-6438625									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	104		90-110		
Batch number: 11299621201B	Sample number(s): 6438626									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	104		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	106		90-110		
Batch number: 11299039402A	Sample number(s): 6438618-6438623									
17a pH by 9045C						100		95-105		
Batch number: 11299039402B	Sample number(s): 6438624-6438626									
17a pH by 9045C						100		95-105		
Batch number: 11298162402A	Sample number(s): 6438618-6438626,6438629									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11291SLD026	Sample number(s): 6438618-6438626 UNSPK: P439922								
Aniline	71	71	18-116	0	30				
Benzidine	46	46	35-141	1	30				
Benzoic acid	58	26	10-173	75*	30				
Benzyl alcohol	94	96	67-115	3	30				
4-Bromophenyl-phenylether	100	100	67-129	1	30				
Carbazole	98	97	64-120	0	30				
4-Chloro-3-methylphenol	99	98	62-122	0	30				
4-Chloroaniline	57	64	13-107	13	30				
bis(2-Chloroethoxy)methane	95	96	75-104	2	30				
bis(2-Chloroethyl)ether	90	92	60-116	2	30				
bis(2-Chloroisopropyl)ether	91	91	55-142	1	30				
2-Chloronaphthalene	67	93	50-141	34*	30				
2-Chlorophenol	97	99	73-121	3	30				
4-Chlorophenyl-phenylether	99	99	80-109	1	30				
Dibenzofuran	95	95	71-112	1	30				
1,2-Dichlorobenzene	88	88	66-108	1	30				
1,3-Dichlorobenzene	88	88	63-109	0	30				
1,4-Dichlorobenzene	88	88	58-108	1	30				
3,3'-Dichlorobenzidine	47	52	28-109	11	30				
2,4-Dichlorophenol	102	101	66-123	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271484
Reported: 11/09/11 at 11:09 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4-Dimethylphenol	99	98	68-118	0	30				
3,5-Dimethylphenol	111	118	71-127	8	30				
4,6-Dinitro-2-methylphenol	63	18	11-126	112*	30				
2,4-Dinitrophenol	33	12*	20-143	93*	30				
2,4-Dinitrotoluene	98	98	56-129	1	30				
2,6-Dinitrotoluene	101	102	69-123	2	30				
1,2-Diphenylhydrazine	100	100	71-129	1	30				
bis(2-Ethylhexyl)phthalate	98	97	63-122	1	30				
Hexachlorobenzene	98	98	77-114	1	30				
Hexachlorobutadiene	95	96	62-120	2	30				
Hexachlorocyclopentadiene	80	80	10-153	2	30				
Hexachloroethane	87	85	57-109	1	30				
Isophorone	95	95	73-102	1	30				
2-Methylphenol	97	98	75-111	2	30				
4-Methylphenol	93	94	59-123	2	30				
2-Nitroaniline	99	100	67-125	2	30				
3-Nitroaniline	95	95	59-122	1	30				
4-Nitroaniline	76	75	41-109	0	30				
Nitrobenzene	94	95	57-125	2	30				
2-Nitrophenol	95	96	56-127	2	30				
4-Nitrophenol	93	89	37-129	3	30				
N-Nitroso-di-n-propylamine	87	88	60-116	2	30				
N-Nitrosodiphenylamine	101	100	71-122	0	30				
Pentachlorophenol	89	64	28-127	32*	30				
Phenol	94	98	58-126	5	30				
1,2,4-Trichlorobenzene	93	94	72-115	2	30				
2,4,5-Trichlorophenol	100	99	58-129	0	30				
2,4,6-Trichlorophenol	99	99	56-134	1	30				
Batch number: 11291SLE026	Sample number(s): 6438618-6438626 UNSPK: 6438618								
Acenaphthene	99	97	63-105	3	30				
Acenaphthylene	93	93	67-114	0	30				
Anthracene	100	100	73-115	1	30				
Benzo(a)anthracene	105	103	59-128	2	30				
Benzo(a)pyrene	97	96	58-142	0	30				
Benzo(b)fluoranthene	102	103	54-163	1	30				
Benzo(g,h,i)perylene	110	64	33-141	53*	30				
Benzo(k)fluoranthene	97	102	57-153	4	30				
Butylbenzylphthalate	100	97	57-173	3	30				
Di-n-butylphthalate	97	94	65-148	3	30				
Chrysene	107	105	67-123	2	30				
Dibenz(a,h)anthracene	112	74	22-133	41*	30				
Diethylphthalate	96	95	70-136	1	30				
Dimethylphthalate	101	102	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	110	110	39-167	0	30				
Fluoranthene	109	106	51-149	3	30				
Fluorene	101	101	66-122	1	30				
Indeno(1,2,3-cd)pyrene	110	69	21-143	47*	30				
1-Methylnaphthalene	89	91	72-123	1	30				
2-Methylnaphthalene	89	90	64-103	1	30				
Naphthalene	90	92	61-102	1	30				
N-Nitrosodimethylamine	105	105	48-113	0	30				
Di-n-octylphthalate	90	87	40-192	4	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271484
Reported: 11/09/11 at 11:09 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Phenanthrene	98	96	62-122	2	30				
Pyrene	93	90	51-131	4	30				
Batch number: 11291SLG026	Sample number(s): 6438626,6438629 UNSPK: P437195								
N-Nitrosodimethylamine	97	95	70-130	2	30				
Batch number: 112880015A	Sample number(s): 6438626 UNSPK: P437195								
4-Amino-2,6-Dinitrotoluene	107	110	80-127	3	50				
2-Amino-4,6-Dinitrotoluene	104	107	80-137	2	50				
1,3-Dinitrobenzene	108	110	38-166	2	50				
2,4-Dinitrotoluene	98	102	80-131	3	50				
2,6-Dinitrotoluene	104	108	80-127	3	50				
HMX	92	93	63-128	1	50				
Nitrobenzene	102	105	80-125	4	50				
Nitroglycerin	99	99	80-120	0	50				
2-Nitrotoluene	99	103	80-122	4	50				
3-Nitrotoluene	105	109	72-119	3	50				
4-Nitrotoluene	99	102	80-125	3	50				
PETN	106	108	80-121	2	50				
RDX	98	99	75-129	1	50				
Tetryl	89	86	55-174	4	50				
1,3,5-Trinitrobenzene	99	101	82-126	2	50				
2,4,6-Trinitrotoluene	104	107	82-130	3	50				
Batch number: 112910003A	Sample number(s): 6438626 UNSPK: P437195								
20a Formaldehyde 8315A	98	104	80-120	6	50				
Batch number: 112910025A	Sample number(s): 6438618-6438619,6438621 UNSPK: P437195								
PCB-1016	65	65	29-146	0	50				
PCB-1260	79	84	39-149	7	50				
Batch number: 113010003A	Sample number(s): 6438620,6438622-6438626 UNSPK: P437195								
PCB-1016	80	81	29-146	1	50				
PCB-1260	86	87	39-149	1	50				
Batch number: 112900028A	Sample number(s): 6438626 UNSPK: P437195								
Ethanol	75	73	48-130	2	20				
Isopropanol	72	71	12-149	1	20				
Methanol	75	72	43-138	3	20				
Batch number: 112980042A	Sample number(s): 6438626 UNSPK: P437195								
Diethylene glycol	47*	48*	59-109	3	20				
Ethylene glycol	75	75	63-107	1	20				
Propylene glycol	77	78	63-107	0	20				
Batch number: 112920027A	Sample number(s): 6438626 UNSPK: P437195								
EFH (C12-C14)	82	89	49-123	8	20				
EFH (C15-C20)	81	98	49-123	13	20				
EFH (C21-C30)	102	117	49-123	7	20				
EFH (C30 - C40)	110	138*	49-123	8	20				
EFH (C8-C11)	0*	5*	49-123	10	20				
Batch number: 112920028A	Sample number(s): 6438626 UNSPK: P437195								

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271484
Reported: 11/09/11 at 11:09 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
m-Terphenyl	97	98	75-125	2	20				
o-Terphenyl	102	103	75-125	1	20				
p-Terphenyl	95	97	75-125	2	20				
Batch number: 112901026001A	Sample number(s): 6438618-6438626 UNSPK: P437195 BKG: P437195								
Antimony	39*	43*	75-125	8	20	0.135 J	0.126 J	7 (1)	20
Arsenic	101	108	75-125	3	20	3.78	3.79	0	20
Beryllium	91	102	75-125	8	20	0.484	0.538	11 (1)	20
Cadmium	111	108	75-125	2	20	0.0714 J	0.0880 J	21* (1)	20
Chromium	95	120	75-125	9	20	17.3	20.5	17	20
Cobalt	105	108	75-125	3	20	5.76	6.25	8	20
Copper	107	116	75-125	5	20	8.35	10.0	18	20
Lead	119	146*	75-125	10	20	4.54	5.21	14	20
Nickel	112	117	75-125	3	20	11.5	13.8	18	20
Silver	103	110	75-125	7	20	0.0337 J	0.0284 J	17 (1)	20
Thallium	104	122	75-125	11	20	0.244	0.284	15 (1)	20
Vanadium	99	137*	75-125	8	20	34.2	40.9	18	20
Zinc	111 (2)	145 (2)	75-125	5	20	55.0	64.0	15	20
Batch number: 112901026001B	Sample number(s): 6438618-6438626 UNSPK: P437195 BKG: P437195								
Selenium	103	118	75-125	13	20	0.162 J	0.153 J	6 (1)	20
Batch number: 112901026001C	Sample number(s): 6438618-6438626 UNSPK: P437195 BKG: P437195								
Molybdenum	104	111	75-125	7	20	0.266	0.289	8 (1)	20
Batch number: 112901026001D	Sample number(s): 6438618-6438626 UNSPK: P437195 BKG: P437195								
Barium	138 (2)	141 (2)	75-125	0	20	85.0	93.7	10	20
Batch number: 112905708002	Sample number(s): 6438618-6438626 UNSPK: P437195 BKG: P437195								
Aluminum	2054 (2)	1557 (2)	75-125	6	20	12,500	12,700	2	20
Boron	103	102	84-115	0	20	1.03 J	0.806 J	25* (1)	20
Calcium	156 (2)	118 (2)	75-125	4	20	3,410	3,450	1	20
Iron	2305 (2)	15740 (2)	75-125	45*	20	20,200	20,700	2	20
Lithium	101	98	82-114	2	20	27.6	28.3	3	20
Magnesium	398 (2)	211 (2)	75-125	5	20	6,060	6,060	0	20
Manganese	45 (2)	74 (2)	75-125	4	20	299	276	8	20
Phosphorus	86 (2)	91 (2)	75-125	1	20	435	405	7	20
Strontium	100	98	75-115	1	20	12.6	12.1	4	20
Tin	90	89	80-110	0	20	2.61 J	2.45 J	6 (1)	20
Titanium	307 (2)	281 (2)	75-125	2	20	1,210	1,180	2	20
Zirconium	97	97	81-110	1	20	0.897 J	1.34 J	40* (1)	20
Batch number: 112905711002	Sample number(s): 6438618-6438626 UNSPK: P437195 BKG: P437195								
Mercury	101	99	65-135	4	20	0.0068 J	0.0069 U	200* (1)	20
Batch number: 112985708002	Sample number(s): 6438618-6438626 UNSPK: P437195 BKG: P437195								
Potassium	128*	119	75-125	3	20	2,360	2,410	2	20
Sodium	99	97	75-125	4	20	118	115	3 (1)	20
Batch number: 11292243201A	Sample number(s): 6438618-6438626 UNSPK: P437195 BKG: P437195								
3a Cr VI by EPA 7199	89		75-125			0.20 U	1.3	200* (1)	20

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271484
Reported: 11/09/11 at 11:09 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Batch number: 11293102201B	Sample number(s): 6438626 UNSPK: P437195 BKG: P437195										
16a Cyanide by 9012B	99		75-125			0.18	U	0.18	U	0 (1)	20
Batch number: 11293621201B	Sample number(s): 6438618-6438626 UNSPK: 6438618 BKG: 6438618										
7a Perchlorate EPA 314.0	109		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11299621201A	Sample number(s): 6438618-6438625 UNSPK: P435696 BKG: P435696										
11a Anions by 300.0 - Fluoride	38*		80-120			1.5		1.5		2 (1)	20
Batch number: 11299621201B	Sample number(s): 6438626 UNSPK: P439922 BKG: P439922										
11a Anions by 300.0 - Fluoride	62*		80-120			4.3		4.4		1 (1)	20
11a Anions by 300.0 - Nitrate	102		80-120			1.3	J	1.4	J	6 (1)	20
Batch number: 11299039402A	Sample number(s): 6438618-6438623 BKG: P435690										
17a pH by 9045C						8.55		8.53		0	3
Batch number: 11299039402B	Sample number(s): 6438624-6438626 BKG: P437195										
17a pH by 9045C						7.86		7.90		1	3
Batch number: 11298162402A	Sample number(s): 6438618-6438626,6438629 BKG: 6438623										
Moisture Content by 160.3						15.4		15.6		1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 21b. NDMA in Water
Batch number: 11290WAA026

	N-Nitrosodimethylamine-d6
6438627	117
6438628	149
Blank	102
LCS	101
LCSD	98
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11291SLD026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6438618	86	92	80	87	87	84
6438619	89	94	82	91	90	84
6438620	85	90	77	86	83	85
6438621	87	92	70	87	84	82
6438622	82	87	70	83	81	82

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271484
Reported: 11/09/11 at 11:09 AM

Surrogate Quality Control

6438623	86	91	69	87	84	85
6438624	89	96	72	90	89	86
6438625	90	96	62	87	88	87
6438626	93	96	79	88	89	84
Blank	88	93	84	88	88	84
LCS	89	93	86	88	90	83
MS	91	94	89	89	90	82
MSD	91	95	86	89	89	83
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11291SLE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6438618	108	92	89
6438619	104	90	88
6438620	101	87	86
6438621	97	83	82
6438622	105	90	96
6438623	105	88	96
6438624	103	90	95
6438625	111	94	97
6438626	114	87	86
Blank	103	89	91
LCS	107	92	84
MS	107	91	87
MSD	109	92	85
Limits:	40-130	45-130	45-135

Analysis Name: 21a NDMA by 1625C
Batch number: 11291SLG026

	N-Nitrosodimethylamine-d6
6438626	86
6438629	87
Blank	124
LCS	120
MS	94
MSD	77
Limits:	50-150

Analysis Name: 15a Energetics by 8330A
Batch number: 112880015A

	2-Nitro-m-xylene
6438626	131
Blank	125
LCS	114
LCSD	113
MS	108
MSD	113
Limits:	80-146

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271484
Reported: 11/09/11 at 11:09 AM

Surrogate Quality Control

Analysis Name: 20a Formaldehyde 8315A
Batch number: 112910003A

	Butyraldehyde
6438626	81
Blank	87
LCS	86
MS	80
MSD	84
Limits:	64-126

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112910025A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6438618	79	93
6438619	63	77
6438621	52*	61
Blank	82	93
LCS	73	89
LCSD	76	99
MS	74	84
MSD	61	89
Limits:	53-139	45-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 113010003A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6438620	81	89
6438622	80	85
6438623	83	90
6438624	79	92
6438625	88	91
6438626	87	86
Blank	81	94
LCS	84	95
LCSD	90	96
MS	88	86
MSD	90	86
Limits:	53-139	45-120

Analysis Name: 18a Alcohols by 8015B
Batch number: 112900028A

	Acetone
6438626	40*
Blank	83
LCS	82
MS	69
MSD	66
Limits:	42-138

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271484
Reported: 11/09/11 at 11:09 AM

Surrogate Quality Control

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112920027A

	Chlorobenzene	Orthoterphenyl
6438626	72	80
Blank	82	88
LCS	88	92
MS	77	86
MSD	80	90
Limits:	37-125	47-145

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112920028A

	n-Triacontane-d62
6438626	198*
Blank	80
LCS	79
MS	79
MSD	79
Limits:	19-152

Analysis Name: 19a Glycols by 8015B
Batch number: 112980042A

	Tetramethylene glycol
6438626	82
Blank	100
LCS	99
MS	88
MSD	87
Limits:	29-137

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1271484 sample# 6433618-29

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-006-SA3-SB-4.0-5.0	10.13.11	1529	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-006-SA3-SB-9.0-10.0	10.13.11	1447	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													Sampled 10.13.11
SL-036-SA5DS-SB-4.0-5.0	10.14.11	1138	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													Sampled 10.13.11
SL-036-SA5DS-SB-9.0-10.0	10.14.11	1134	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-037-SA5DS-SB-4.0-5.0	10.14.11	0947	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-037-SA5DS-SB-9.0-10.0	10.14.11	0905	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-038-SA5DS-SB-4.0-5.0	10.14.11	1100	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-038-SA5DS-SB-9.0-10.0	10.14.11	1027	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-164-SA7-SB-0.5-1.5	10.14.11	1420	SOIL	NONE	1-SS Sleeve			X	X																	
SL-164-SA7-SB-0.5-1.5	10.14.11	1420	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X		
EB-SA3-SB-101411	10.14.11	1400	WATER	NONE	1-1 L Amber														X							HGL ASTM II WATER-HA crew
TB-101411	10.14.11	0800	WATER	NONE	1-1 L Amber														X							
TB-101411	10.14.11	0800	SOIL	NONE	1-4 oz Jar														X							

Relinquished by: (Signature) | **Date/Time** 10/13/2011 / 1630 | **Received for Laboratory by: (Signature)**

Received by: (Signature) | **Date/Time** 10-13-11 0945 | **Airbill No.(s)** 8767 9858 6806, 6817

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 30, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/15/2011
Group Number: 1271486
SDG: DX149
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-006-SA3-SB-4.0-5.0 Soil	6438634
SL-006-SA3-SB-9.0-10.0 Soil	6438635
SL-036-SA5DS-SB-4.0-5.0 Soil	6438636
SL-036-SA5DS-SB-9.0-10.0 Soil	6438637
SL-037-SA5DS-SB-4.0-5.0 Soil	6438638
SL-037-SA5DS-SB-9.0-10.0 Soil	6438639
SL-038-SA5DS-SB-4.0-5.0 Soil	6438640
SL-038-SA5DS-SB-9.0-10.0 Soil	6438641
SL-164-SA7-SB-0.5-1.5 Soil	6438642

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Dorothy M. Love

Dorothy M. Love
Group Leader

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-006-SA3-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA3-SB-4.0-5.0

LLI Sample # SW 6438634
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 15:29

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4906 SDG#: DX149-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-006-SA3-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA3-SB-4.0-5.0

LLI Sample # SW 6438634
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 15:29

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4906 SDG#: DX149-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0466 U	0.0466	1.09	1
11031	12378-PeCDD	40321-76-4	0.0450 JBQ	0.0386	5.43	1
11031	123478-HxCDD	39227-28-6	0.0633 JBQ	0.0279	5.43	1
11031	123678-HxCDD	57653-85-7	0.0516 JQ	0.0289	5.43	1
11031	123789-HxCDD	19408-74-3	0.0621 JBQ	0.0298	5.43	1
11031	1234678-HpCDD	35822-46-9	0.276 JB	0.0305	5.43	1
11031	OCDD	3268-87-9	0.641 JBQ	0.0312	10.9	1
11031	2378-TCDF	51207-31-9	0.0372 JQ	0.0286	1.09	1
11031	12378-PeCDF	57117-41-6	0.0445 JBQ	0.0186	5.43	1
11031	23478-PeCDF	57117-31-4	0.0526 JB	0.0175	5.43	1
11031	123478-HxCDF	70648-26-9	0.0431 JBQ	0.0155	5.43	1
11031	123678-HxCDF	57117-44-9	0.0193 JBQ	0.0143	5.43	1
11031	123789-HxCDF	72918-21-9	0.0157 U	0.0157	5.43	1
11031	234678-HxCDF	60851-34-5	0.0589 JBQ	0.0136	5.43	1
11031	1234678-HpCDF	67562-39-4	0.176 JB	0.0142	5.43	1
11031	1234789-HpCDF	55673-89-7	0.0370 JBQ	0.0186	5.43	1
11031	OCDF	39001-02-0	0.158 JB	0.0408	10.9	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	88	32 - 141
13C12-123678-HxCDD	92	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	93	23 - 140
13C12-OCDD	103	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	86	26 - 138
13C12-OCDF	91	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-006-SA3-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA3-SB-4.0-5.0

LLI Sample # SW 6438634
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 15:29

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4906 SDG#: DX149-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-006-SA3-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA3-SB-4.0-5.0

LLI Sample # SW 6438634
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 15:29

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4906 SDG#: DX149-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11294002	10/24/2011 22:20	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11294002	10/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-006-SA3-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA3-SB-9.0-10.0

LLI Sample # SW 6438635
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:47

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4907 SDG#: DX149-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-006-SA3-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA3-SB-9.0-10.0

LLI Sample # SW 6438635
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:47

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4907 SDG#: DX149-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.115	JQ	0.0525	1.13	1
11031	12378-PeCDD	40321-76-4	0.0438	U	0.0438	5.64	1
11031	123478-HxCDD	39227-28-6	0.0297	U	0.0297	5.64	1
11031	123678-HxCDD	57653-85-7	0.0545	JQ	0.0307	5.64	1
11031	123789-HxCDD	19408-74-3	0.0856	JBQ	0.0291	5.64	1
11031	1234678-HpCDD	35822-46-9	0.342	JBQ	0.0307	5.64	1
11031	OCDD	3268-87-9	0.910	JB	0.0262	11.3	1
11031	2378-TCDF	51207-31-9	0.0364	U	0.0364	1.13	1
11031	12378-PeCDF	57117-41-6	0.123	JBQ	0.0223	5.64	1
11031	23478-PeCDF	57117-31-4	0.118	JBQ	0.0197	5.64	1
11031	123478-HxCDF	70648-26-9	0.126	JBQ	0.0225	5.64	1
11031	123678-HxCDF	57117-44-9	0.0975	JBQ	0.0211	5.64	1
11031	123789-HxCDF	72918-21-9	0.0731	JBQ	0.0224	5.64	1
11031	234678-HxCDF	60851-34-5	0.0980	JB	0.0193	5.64	1
11031	1234678-HpCDF	67562-39-4	0.234	JB	0.0160	5.64	1
11031	1234789-HpCDF	55673-89-7	0.0545	JB	0.0203	5.64	1
11031	OCDF	39001-02-0	0.145	JB	0.0370	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	86	25 - 164
13C12-12378-PeCDD	94	25 - 181
13C12-123478-HxCDD	98	32 - 141
13C12-123678-HxCDD	99	28 - 130
13C12-123789-HxCDD	99	28 - 130
13C12-1234678-HpCDD	109	23 - 140
13C12-OCDD	114	17 - 157
13C12-2378-TCDF	87	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	94	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	91	28 - 136
13C12-123789-HxCDF	98	29 - 147
13C12-1234678-HpCDF	103	28 - 143
13C12-1234789-HpCDF	96	26 - 138
13C12-OCDF	102	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-006-SA3-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA3-SB-9.0-10.0

LLI Sample # SW 6438635
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:47

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4907 SDG#: DX149-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-006-SA3-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-006-SA3-SB-9.0-10.0

LLI Sample # SW 6438635
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/13/2011 14:47

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X4907 SDG#: DX149-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11294002	10/25/2011 02:19	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11294002	10/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-036-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438636
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:38

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4908 SDG#: DX149-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-036-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438636
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:38

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X4908 SDG#: DX149-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0632	JQ	0.0504	1.15	1
11031	12378-PeCDD	40321-76-4	0.391	JB	0.0450	5.73	1
11031	123478-HxCDD	39227-28-6	0.202	JBQ	0.0323	5.73	1
11031	123678-HxCDD	57653-85-7	0.197	JQ	0.0328	5.73	1
11031	123789-HxCDD	19408-74-3	0.158	JBQ	0.0322	5.73	1
11031	1234678-HpCDD	35822-46-9	0.366	JBQ	0.0346	5.73	1
11031	OCDD	3268-87-9	0.559	JBQ	0.0305	11.5	1
11031	2378-TCDF	51207-31-9	0.0811	J	0.0298	1.15	1
11031	12378-PeCDF	57117-41-6	0.479	JB	0.0230	5.73	1
11031	23478-PeCDF	57117-31-4	0.357	JB	0.0207	5.73	1
11031	123478-HxCDF	70648-26-9	0.241	JB	0.0243	5.73	1
11031	123678-HxCDF	57117-44-9	0.281	JBQ	0.0222	5.73	1
11031	123789-HxCDF	72918-21-9	0.184	JBQ	0.0235	5.73	1
11031	234678-HxCDF	60851-34-5	0.165	JBQ	0.0211	5.73	1
11031	1234678-HpCDF	67562-39-4	0.229	JBQ	0.0152	5.73	1
11031	1234789-HpCDF	55673-89-7	0.105	JBQ	0.0191	5.73	1
11031	OCDF	39001-02-0	0.200	JBQ	0.0389	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	94	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	84	26 - 138
13C12-OCDF	86	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-036-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438636
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:38

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4908 SDG#: DX149-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-036-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438636
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:38

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4908 SDG#: DX149-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11294002	10/25/2011 03:16	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11294002	10/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-036-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438637
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:34

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4909 SDG#: DX149-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-036-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438637
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:34

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4909 SDG#: DX149-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**		**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0518	U	0.0518	1.13	1
11031	12378-PeCDD	40321-76-4	0.182	JBQ	0.0440	5.64	1
11031	123478-HxCDD	39227-28-6	0.0897	JBQ	0.0364	5.64	1
11031	123678-HxCDD	57653-85-7	0.286	J	0.0369	5.64	1
11031	123789-HxCDD	19408-74-3	0.690	JBQ	0.0360	5.64	1
11031	1234678-HpCDD	35822-46-9	0.355	JBQ	0.0349	5.64	1
11031	OCDD	3268-87-9	0.628	JB	0.0335	11.3	1
11031	2378-TCDF	51207-31-9	0.0589	JQ	0.0349	1.13	1
11031	12378-PeCDF	57117-41-6	0.267	JB	0.0217	5.64	1
11031	23478-PeCDF	57117-31-4	0.168	JBQ	0.0209	5.64	1
11031	123478-HxCDF	70648-26-9	0.137	JBQ	0.0243	5.64	1
11031	123678-HxCDF	57117-44-9	0.166	JBQ	0.0217	5.64	1
11031	123789-HxCDF	72918-21-9	0.725	JBQ	0.0245	5.64	1
11031	234678-HxCDF	60851-34-5	0.114	JB	0.0204	5.64	1
11031	1234678-HpCDF	67562-39-4	0.165	JBQ	0.0167	5.64	1
11031	1234789-HpCDF	55673-89-7	0.0242	JBQ	0.0227	5.64	1
11031	OCDF	39001-02-0	0.112	JBQ	0.0453	11.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	93	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	81	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-036-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438637
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:34

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4909 SDG#: DX149-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-036-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-036-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438637
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:34

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4909 SDG#: DX149-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11294002	10/25/2011 04:12	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11294002	10/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-037-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438638
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 09:47

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4910 SDG#: DX149-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-037-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438638
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 09:47

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4910 SDG#: DX149-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.114	JQ	0.0563	1.15	1
11031	12378-PeCDD	40321-76-4	0.172	JBQ	0.0442	5.75	1
11031	123478-HxCDD	39227-28-6	0.0654	JBQ	0.0311	5.75	1
11031	123678-HxCDD	57653-85-7	0.239	J	0.0320	5.75	1
11031	123789-HxCDD	19408-74-3	0.488	JB	0.0343	5.75	1
11031	1234678-HpCDD	35822-46-9	0.294	JBQ	0.0338	5.75	1
11031	OCDD	3268-87-9	0.670	JB	0.0350	11.5	1
11031	2378-TCDF	51207-31-9	0.0416	J	0.0344	1.15	1
11031	12378-PeCDF	57117-41-6	0.301	JB	0.0224	5.75	1
11031	23478-PeCDF	57117-31-4	0.285	JBQ	0.0201	5.75	1
11031	123478-HxCDF	70648-26-9	0.136	JBQ	0.0264	5.75	1
11031	123678-HxCDF	57117-44-9	0.0902	JBQ	0.0235	5.75	1
11031	123789-HxCDF	72918-21-9	0.657	JB	0.0258	5.75	1
11031	234678-HxCDF	60851-34-5	0.0677	JBQ	0.0213	5.75	1
11031	1234678-HpCDF	67562-39-4	0.138	JBQ	0.0171	5.75	1
11031	1234789-HpCDF	55673-89-7	0.0546	JBQ	0.0234	5.75	1
11031	OCDF	39001-02-0	0.0767	JB	0.0428	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	79	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-037-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438638
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 09:47

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4910 SDG#: DX149-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-037-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438638
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 09:47

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4910 SDG#: DX149-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11294002	10/25/2011 05:09	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11294002	10/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-037-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438639
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 09:05

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4911 SDG#: DX149-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-037-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438639
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 09:05

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4911 SDG#: DX149-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0526 U	0.0526	1.17	1
11031	12378-PeCDD	40321-76-4	0.0430 U	0.0430	5.83	1
11031	123478-HxCDD	39227-28-6	0.0314 JBQ	0.0287	5.83	1
11031	123678-HxCDD	57653-85-7	0.0299 U	0.0299	5.83	1
11031	123789-HxCDD	19408-74-3	0.0452 JBQ	0.0291	5.83	1
11031	1234678-HpCDD	35822-46-9	0.298 JB	0.0337	5.83	1
11031	OCDD	3268-87-9	0.585 JB	0.0303	11.7	1
11031	2378-TCDF	51207-31-9	0.0316 U	0.0316	1.17	1
11031	12378-PeCDF	57117-41-6	0.0215 JBQ	0.0202	5.83	1
11031	23478-PeCDF	57117-31-4	0.0579 JBQ	0.0196	5.83	1
11031	123478-HxCDF	70648-26-9	0.0300 JBQ	0.0187	5.83	1
11031	123678-HxCDF	57117-44-9	0.0294 JBQ	0.0165	5.83	1
11031	123789-HxCDF	72918-21-9	0.0584 JBQ	0.0184	5.83	1
11031	234678-HxCDF	60851-34-5	0.0283 JBQ	0.0150	5.83	1
11031	1234678-HpCDF	67562-39-4	0.0771 JB	0.0142	5.83	1
11031	1234789-HpCDF	55673-89-7	0.0336 JBQ	0.0215	5.83	1
11031	OCDF	39001-02-0	0.194 JB	0.0405	11.7	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	78	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-037-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438639
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 09:05

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4911 SDG#: DX149-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-037-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-037-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438639
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 09:05

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4911 SDG#: DX149-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11294002	10/25/2011 06:05	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11294002	10/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-038-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438640
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:00

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4912 SDG#: DX149-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-038-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438640
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:00

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4912 SDG#: DX149-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0444 U	0.0444	1.08	1
11031	12378-PeCDD	40321-76-4	0.0398 U	0.0398	5.38	1
11031	123478-HxCDD	39227-28-6	0.0436 JBQ	0.0246	5.38	1
11031	123678-HxCDD	57653-85-7	0.0241 U	0.0241	5.38	1
11031	123789-HxCDD	19408-74-3	0.101 JBQ	0.0236	5.38	1
11031	1234678-HpCDD	35822-46-9	0.268 JBQ	0.0314	5.38	1
11031	OCDD	3268-87-9	0.914 JB	0.0271	10.8	1
11031	2378-TCDF	51207-31-9	0.0293 U	0.0293	1.08	1
11031	12378-PeCDF	57117-41-6	0.0523 JBQ	0.0175	5.38	1
11031	23478-PeCDF	57117-31-4	0.0392 JBQ	0.0174	5.38	1
11031	123478-HxCDF	70648-26-9	0.0182 U	0.0182	5.38	1
11031	123678-HxCDF	57117-44-9	0.0179 JBQ	0.0169	5.38	1
11031	123789-HxCDF	72918-21-9	0.120 JBQ	0.0167	5.38	1
11031	234678-HxCDF	60851-34-5	0.0146 U	0.0146	5.38	1
11031	1234678-HpCDF	67562-39-4	0.0996 JBQ	0.0140	5.38	1
11031	1234789-HpCDF	55673-89-7	0.0575 JBQ	0.0205	5.38	1
11031	OCDF	39001-02-0	0.217 JBQ	0.0406	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	99	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	85	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-038-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438640
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:00

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4912 SDG#: DX149-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-038-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SB-4.0-5.0

LLI Sample # SW 6438640
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 11:00

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4912 SDG#: DX149-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11294002	10/25/2011 07:02	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11294002	10/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-038-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438641
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 10:27

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4913 SDG#: DX149-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-038-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438641
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 10:27

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4913 SDG#: DX149-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0447 U	0.0447	1.04	1
11031	12378-PeCDD	40321-76-4	0.0544 JBQ	0.0352	5.22	1
11031	123478-HxCDD	39227-28-6	0.0276 U	0.0276	5.22	1
11031	123678-HxCDD	57653-85-7	0.0290 U	0.0290	5.22	1
11031	123789-HxCDD	19408-74-3	0.0735 JBQ	0.0288	5.22	1
11031	1234678-HpCDD	35822-46-9	0.332 JBQ	0.0263	5.22	1
11031	OCDD	3268-87-9	0.580 JB	0.0296	10.4	1
11031	2378-TCDF	51207-31-9	0.0289 U	0.0289	1.04	1
11031	12378-PeCDF	57117-41-6	0.0315 JBQ	0.0188	5.22	1
11031	23478-PeCDF	57117-31-4	0.0419 JBQ	0.0172	5.22	1
11031	123478-HxCDF	70648-26-9	0.0292 JB	0.0187	5.22	1
11031	123678-HxCDF	57117-44-9	0.0232 JBQ	0.0166	5.22	1
11031	123789-HxCDF	72918-21-9	0.147 JBQ	0.0201	5.22	1
11031	234678-HxCDF	60851-34-5	0.0281 JBQ	0.0161	5.22	1
11031	1234678-HpCDF	67562-39-4	0.0871 JBQ	0.0145	5.22	1
11031	1234789-HpCDF	55673-89-7	0.0399 JBQ	0.0198	5.22	1
11031	OCDF	39001-02-0	0.146 JBQ	0.0351	10.4	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	88	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	104	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	90	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-038-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438641
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 10:27

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4913 SDG#: DX149-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-038-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-038-SA5DS-SB-9.0-10.0

LLI Sample # SW 6438641
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4913 SDG#: DX149-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11294002	10/25/2011 07:59	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11294002	10/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-164-SA7-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-164-SA7-SB-0.5-1.5

LLI Sample # SW 6438642
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 14:20

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4914 SDG#: DX149-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-164-SA7-SB-0.5-1.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-164-SA7-SB-0.5-1.5

LLI Sample # SW 6438642
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 14:20

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4914 SDG#: DX149-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0430 U	0.0430	0.999	1
11031	12378-PeCDD	40321-76-4	0.0477 JB	0.0339	5.00	1
11031	123478-HxCDD	39227-28-6	0.0311 JBQ	0.0289	5.00	1
11031	123678-HxCDD	57653-85-7	0.0296 U	0.0296	5.00	1
11031	123789-HxCDD	19408-74-3	0.0690 JB	0.0280	5.00	1
11031	1234678-HpCDD	35822-46-9	0.584 JB	0.0335	5.00	1
11031	OCDD	3268-87-9	4.56 JB	0.0246	9.99	1
11031	2378-TCDF	51207-31-9	0.0362 U	0.0362	0.999	1
11031	12378-PeCDF	57117-41-6	0.0354 JBQ	0.0222	5.00	1
11031	23478-PeCDF	57117-31-4	0.0601 JB	0.0210	5.00	1
11031	123478-HxCDF	70648-26-9	0.0717 JBQ	0.0219	5.00	1
11031	123678-HxCDF	57117-44-9	0.0286 JB	0.0195	5.00	1
11031	123789-HxCDF	72918-21-9	0.0294 JBQ	0.0211	5.00	1
11031	234678-HxCDF	60851-34-5	0.0622 JBQ	0.0177	5.00	1
11031	1234678-HpCDF	67562-39-4	0.195 JB	0.0150	5.00	1
11031	1234789-HpCDF	55673-89-7	0.0524 JBQ	0.0220	5.00	1
11031	OCDF	39001-02-0	0.392 JBQ	0.0368	9.99	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	96	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	83	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-164-SA7-SB-0.5-1.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-164-SA7-SB-0.5-1.5

LLI Sample # SW 6438642
LLI Group # 1271486
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/14/2011 14:20

Submitted: 10/15/2011 09:45
Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4914 SDG#: DX149-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

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SSFL Area IV Collocated Soil Sampling
SL-164-SA7-SB-0.5-1.5

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LLI Group # 1271486
Account # 13013

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Reported: 10/30/2011 16:19

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X4914 SDG#: DX149-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11294002	10/25/2011 08:55	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11294002	10/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402A	10/25/2011 18:30	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271486
Reported: 10/30/11 at 04:19 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11298162402A	Sample number(s): 6438634-6438642								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11294002	Sample number(s): 6438634-6438642								
2378-TCDD	0.0609 U	0.0609	1.00	ng/kg	107		67-158		
12378-PeCDD	0.0460 J	0.0441	5.00	ng/kg	105		70-142		
123478-HxCDD	0.0460 J	0.0278	5.00	ng/kg	100		70-164		
123678-HxCDD	0.0276 U	0.0276	5.00	ng/kg	94		76-134		
123789-HxCDD	0.0516 J	0.0279	5.00	ng/kg	102		64-162		
1234678-HpCDD	0.267 J	0.0317	5.00	ng/kg	100		70-140		
OCDD	0.461 J	0.0245	10.0	ng/kg	95		78-144		
2378-TCDF	0.0429 U	0.0429	1.00	ng/kg	97		75-158		
12378-PeCDF	0.0382 J	0.0220	5.00	ng/kg	102		80-134		
23478-PeCDF	0.0374 J	0.0203	5.00	ng/kg	96		68-160		
123478-HxCDF	0.0843 J	0.0241	5.00	ng/kg	97		72-134		
123678-HxCDF	0.0224 J	0.0214	5.00	ng/kg	98		84-130		
123789-HxCDF	0.0575 J	0.0180	5.00	ng/kg	98		78-130		
234678-HxCDF	0.0541 J	0.0162	5.00	ng/kg	96		70-156		
1234678-HpCDF	0.154 J	0.0152	5.00	ng/kg	92		82-122		
1234789-HpCDF	0.0824 J	0.0190	5.00	ng/kg	96		78-138		
OCDF	0.172 J	0.0394	10.0	ng/kg	97		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11298162402A	Sample number(s): 6438634-6438642					BKG: P438623			
Moisture Content by 160.3						15.4	15.6	1	20
Batch number: 11294002	Sample number(s): 6438634-6438642					UNSPK: P435711			
2378-TCDD	109	105	67-158	3	25				
12378-PeCDD	105	104	70-142	0	25				
123478-HxCDD	98	98	70-164	1	25				
123678-HxCDD	93	95	76-134	3	25				
123789-HxCDD	100	102	64-162	3	25				
1234678-HpCDD	98	99	70-140	3	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271486
Reported: 10/30/11 at 04:19 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
OCDD	96	95	78-144	1	25				
2378-TCDF	98	97	75-158	0	25				
12378-PeCDF	101	102	80-134	2	25				
23478-PeCDF	96	93	68-160	2	25				
123478-HxCDF	100	97	72-134	2	25				
123678-HxCDF	98	98	84-130	0	25				
123789-HxCDF	100	98	78-130	0	25				
234678-HxCDF	95	95	70-156	2	25				
1234678-HpCDF	90	90	82-122	1	25				
1234789-HpCDF	96	96	78-138	1	25				
OCDF	97	95	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11294002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6438634	76	78	73	78	87	86
6438635	86	94	78	87	91	98
6438636	72	76	70	77	83	86
6438637	69	70	70	76	78	77
6438638	67	71	64	71	80	77
6438639	70	72	65	73	80	77
6438640	74	75	69	76	81	83
6438641	74	75	71	78	84	79
6438642	71	72	66	74	79	77
Blank	86	88	61	70	88	96
MS	76	80	51	59	84	85
MSD	72	79	50	54	81	84
OPR	74	77	60	69	78	83
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6438634	92	86	91	77	88	92
6438635	103	96	102	94	98	99
6438636	88	84	86	75	87	87
6438637	88	76	81	71	83	85
6438638	85	74	79	70	83	88
6438639	87	75	78	75	86	85
6438640	93	79	85	77	87	89
6438641	93	80	90	76	88	88
6438642	89	77	83	73	86	86
Blank	92	93	100	92	92	97
MS	77	83	88	81	90	89

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271486
Reported: 10/30/11 at 04:19 PM

Surrogate Quality Control

MSD	72	83	92	79	83	84
OPR	88	82	87	81	86	87
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6438634	88	93	103	78	79
6438635	99	109	114	87	94
6438636	86	89	94	75	77
6438637	82	86	93	70	74
6438638	82	84	91	68	73
6438639	83	85	91	70	75
6438640	86	91	99	73	79
6438641	88	92	104	73	80
6438642	83	87	96	72	75
Blank	96	108	118	82	92
MS	89	95	102	78	84
MSD	85	92	103	72	79
OPR	86	95	103	73	81
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1271436 sample# 6135634-42

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 5 (SA5) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-006-SA3-SB-4.0-5.0	10.13.11	1529	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-006-SA3-SB-9.0-10.0	10.13.11	1447	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													Sampled 10.13.11
SL-036-SA5DS-SB-4.0-5.0	10.14.11	1138	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													Sampled 10.13.11
SL-036-SA5DS-SB-9.0-10.0	10.14.11	1134	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-037-SA5DS-SB-4.0-5.0	10.14.11	0947	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-037-SA5DS-SB-9.0-10.0	10.14.11	0905	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-038-SA5DS-SB-4.0-5.0	10.14.11	1100	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-038-SA5DS-SB-9.0-10.0	10.14.11	1027	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-164-SA7-SB-0.5-1.5	10.14.11	1420	SOIL	NONE	1-SS Sleeve			X	X																	
SL-164-SA7-SB-0.5-1.5	10.14.11	1420	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	X	X	X		
EB-SA3-SB-101411	10.14.11	1400	WATER	NONE	1-1 L Amber														X							HGL ASTM II WATER-HA crew
TB-101411	10.14.11	0800	WATER	NONE	1-1 L Amber														X							
TB-101411	10.14.11	0800	SOIL	NONE	1-4 oz Jar														X							

Relinquished by: (*Signature*) — Date/Time: 10/13/2011 / 1630 — Received for Laboratory by: (*Signature*)

Received by: (*Signature*) — Date/Time: 10-15-11 1045 — Airbill No.(s): 8767 9858 6806, 6817

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 04, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/18/2011
Group Number: 1271741
SDG: DE270
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-139-SA7-SB-2.0-3.0 Soil	6439920
SL-033-SA5DS-SB-2.0-3.0 Soil	6439921
SL-034-SA5DS-SB-4.0-5.0 Soil	6439922
SL-034-SA5DS-SB-4.0-5.0MS Soil	6439923
SL-034-SA5DS-SB-4.0-5.0MSD Soil	6439924
SL-034-SA5DS-SB-4.0-5.0DUP Soil	6439925
SL-034-SA5DS-SB-4.0-5.0RL MS Soil	6439926
SL-034-SA5DS-SB-4.0-5.0RL LCS Soil	6439927
SL-034-SA5DS-SB-9.0-10.0 Soil	6439928
SL-039-SA5DS-SB-3.0-4.0 Soil	6439929
DUP03-SA5DS-QC-101711 Soil	6439930
EB-SA5DS-SB-101711 Water	6439931
TB-101711 Water	6439932
TB-101711 Sand	6439933
TB-101711 Water	6439934

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-139-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA7-SB-2.0-3.0

LLI Sample # SW 6439920
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 12:05

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL139 SDG#: DE270-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	70	U	70	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	25	J	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	70	U	70	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-139-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA7-SB-2.0-3.0

LLI Sample # SW 6439920
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 12:05

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL139 SDG#: DE270-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.2	U	6.2	19	1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0	24.95
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-139-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA7-SB-2.0-3.0

LLI Sample # SW 6439920
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 12:05

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL139 SDG#: DE270-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.64	J	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530	1
10501	Isopropanol	67-63-0	110	U	110	530	1
10501	Methanol	67-56-1	110	U	110	530	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11	1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11	1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	1.3		0.42	1.3	1
10199	EFH (C15-C20)	n.a.	0.65	J	0.42	1.3	1
10199	EFH (C21-C30)	n.a.	5.5		0.42	1.3	1
10199	EFH (C30 - C40)	n.a.	9.8		0.42	1.3	1
10199	EFH (C8-C11)	n.a.	0.44	J	0.42	1.3	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	17,100		6.18	20.4	1
07914	Boron	7440-42-8	0.368	U	0.368	5.10	1
01650	Calcium	7440-70-2	2,770		2.55	20.4	1
01654	Iron	7439-89-6	21,300		2.66	20.4	1
01656	Lithium	7439-93-2	23.8		0.63	2.0	1
01657	Magnesium	7439-95-4	4,760		0.449	10.2	1
06958	Manganese	7439-96-5	259		0.0368	0.510	1
10145	Phosphorus	7723-14-0	251		0.357	10.2	1
01662	Potassium	7440-09-7	2,420		11.5	51.0	1
01667	Sodium	7440-23-5	93.2	J	6.07	102	1
07968	Strontium	7440-24-6	16.6		0.0255	0.510	1
06969	Tin	7440-31-5	2.66	J	0.327	10.2	1
06970	Titanium	7440-32-6	1,320		0.0739	1.04	1
10146	Zirconium	7440-67-7	1.47	J	0.470	5.10	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-139-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA7-SB-2.0-3.0

LLI Sample # SW 6439920
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 12:05

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL139 SDG#: DE270-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0755 U	0.0755	0.204	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	4.96	0.0817	0.408	2
06126	Barium	7440-39-3	82.2	0.108	0.408	2
06127	Beryllium	7440-41-7	0.547	0.0408	0.255	5
06128	Cadmium	7440-43-9	0.243	0.0449	0.102	2
06131	Chromium	7440-47-3	21.4	0.123	0.408	2
06132	Cobalt	7440-48-4	6.94	0.0204	0.102	2
06133	Copper	7440-50-8	7.37	0.0817	0.408	2
06135	Lead	7439-92-1	7.19	0.0104	0.204	2
06138	Molybdenum	7439-98-7	0.448	0.0510	0.102	2
06139	Nickel	7440-02-0	12.0	0.102	0.408	2
06141	Selenium	7782-49-2	0.143 J	0.0592	0.408	2
06142	Silver	7440-22-4	0.0442 J	0.0145	0.102	2
06145	Thallium	7440-28-0	0.221	0.0306	0.102	2
06148	Vanadium	7440-62-2	41.9	0.0225	0.102	2
06149	Zinc	7440-66-6	51.4	0.572	3.06	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0139 J	0.0071	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0	0.83	1.0	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5 U	9.5	31.5	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.33 J	0.21	1.1	1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.52	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.39	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.9	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

*=This limit was used in the evaluation of the final result

Sample Description: SL-139-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-139-SA7-SB-2.0-3.0

LLI Sample # SW 6439920
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 12:05

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL139 SDG#: DE270-01

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-139-SA7-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11291SLD026	10/21/2011 10:27	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11292SLE026	10/22/2011 13:32	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11292SLE026	10/20/2011 10:45	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11291SLD026	10/18/2011 21:35	Karen L Beyer	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11293A16A	10/21/2011 06:25	Laura M Krieger	24.95
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201129125880	10/18/2011 19:21	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201129125880	10/18/2011 19:22	Lois E Hiltz	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112920031A	10/22/2011 23:01	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112920031A	10/20/2011 06:50	Katheryne V Sponheimer	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112920034A	10/19/2011 20:17	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112930029A	10/20/2011 21:06	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112920028A	10/21/2011 18:18	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112920027A	10/21/2011 04:51	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112920027A	10/20/2011 12:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	112920028A	10/20/2011 12:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112920034A	10/19/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112930029A	10/20/2011 16:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112915708005	10/26/2011 07:31	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112915708005	10/26/2011 07:31	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112915708005	10/26/2011 07:31	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112915708005	10/26/2011 07:31	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	112915708005	10/26/2011 07:31	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112915708005	10/26/2011 07:31	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112915708005	10/26/2011 07:31	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112915708005	10/26/2011 07:31	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112915708005	10/26/2011 07:31	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112915708005	10/26/2011 07:31	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112915708005	10/26/2011 07:31	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112915708005	10/26/2011 07:31	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	113005708002	10/31/2011 08:27	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112915708005	10/26/2011 07:31	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112911026002A	10/20/2011 06:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112911026002A	10/20/2011 06:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112911026002D	10/20/2011 06:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112911026002A	10/20/2011 07:14	Choon Y Tian	5

*=This limit was used in the evaluation of the final result

Sample Description: **SL-139-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA7-SB-2.0-3.0

LLI Sample # SW 6439920
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 12:05

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL139 SDG#: DE270-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112911026002A	10/20/2011 06:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112911026002A	10/20/2011 06:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112911026002A	10/20/2011 06:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112911026002A	10/20/2011 06:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112911026002A	10/20/2011 06:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112911026002C	10/20/2011 06:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112911026002A	10/20/2011 06:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112911026002B	10/20/2011 06:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112911026002A	10/20/2011 06:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112911026002A	10/20/2011 06:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112911026002A	10/20/2011 06:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112911026002A	10/20/2011 06:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112915711005	10/19/2011 18:19	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112915708005	10/19/2011 11:04	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	113005708002	10/30/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112911026002	10/19/2011 11:39	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112915711005	10/19/2011 12:44	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11299621201B	10/27/2011 15:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11293621202A	10/21/2011 02:00	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11292243201B	10/20/2011 19:24	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11293102201B	10/21/2011 08:17	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11299621201B	10/26/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621202A	10/20/2011 07:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11293102201B	10/20/2011 15:35	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039402A	10/27/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11292243201A	10/19/2011 09:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402B	10/25/2011 18:30	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-033-SA5DS-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DS-SB-2.0-3.0

LLI Sample # SW 6439921
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 11:58

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL033 SDG#: DE270-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-033-SA5DS-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DS-SB-2.0-3.0

LLI Sample # SW 6439921
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 11:58

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL033 SDG#: DE270-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	34,000		6.77	22.4	1
07914	Boron	7440-42-8	3.70	J	0.403	5.60	1
01650	Calcium	7440-70-2	19,600		2.80	22.4	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-033-SA5DS-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DS-SB-2.0-3.0

LLI Sample # SW 6439921
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 11:58

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL033 SDG#: DE270-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	33,600		14.6	112	5
01656	Lithium	7439-93-2	35.0		0.69	2.2	1
01657	Magnesium	7439-95-4	8,290		0.492	11.2	1
06958	Manganese	7439-96-5	306		0.0403	0.560	1
10145	Phosphorus	7723-14-0	347		0.392	11.2	1
01662	Potassium	7440-09-7	3,630		12.6	56.0	1
01667	Sodium	7440-23-5	159		6.66	112	1
07968	Strontium	7440-24-6	58.5		0.0280	0.560	1
06969	Tin	7440-31-5	2.82	J	0.358	11.2	1
06970	Titanium	7440-32-6	1,740		0.0787	1.11	1
10146	Zirconium	7440-67-7	5.18	J	0.515	5.60	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.104	J	0.0828	0.224	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.25		0.0895	0.448	2
06126	Barium	7440-39-3	124		0.119	0.448	2
06127	Beryllium	7440-41-7	0.808		0.0179	0.112	2
06128	Cadmium	7440-43-9	0.137		0.0492	0.112	2
06131	Chromium	7440-47-3	36.7		0.134	0.448	2
06132	Cobalt	7440-48-4	15.7		0.0224	0.112	2
06133	Copper	7440-50-8	17.2		0.0895	0.448	2
06135	Lead	7439-92-1	8.15		0.0114	0.224	2
06138	Molybdenum	7439-98-7	0.357		0.0560	0.112	2
06139	Nickel	7440-02-0	19.3		0.112	0.448	2
06141	Selenium	7782-49-2	0.257	J	0.0649	0.448	2
06142	Silver	7440-22-4	0.0183	J	0.0159	0.112	2
06145	Thallium	7440-28-0	0.302		0.0336	0.112	2
06148	Vanadium	7440-62-2	68.4		0.0246	0.112	2
06149	Zinc	7440-66-6	70.6		0.627	3.36	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0078	U	0.0078	0.111	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.5		0.93	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-033-SA5DS-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DS-SB-2.0-3.0

LLI Sample # SW 6439921
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 11:58

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL033 SDG#: DE270-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.31	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	12.4	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11291SLD026	10/21/2011 10:52	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11292SLE026	10/22/2011 14:06	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11292SLE026	10/20/2011 10:45	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11291SLD026	10/18/2011 21:35	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112920031A	10/22/2011 23:20	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112920031A	10/20/2011 06:50	Katheryne V Sponheimer	1
01643	Aluminum	SW-846 6010B	1	112915708005	10/26/2011 07:43	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112915708005	10/26/2011 07:43	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112915708005	10/26/2011 07:43	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112915708005	10/27/2011 17:02	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	112915708005	10/26/2011 07:43	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112915708005	10/26/2011 07:43	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112915708005	10/26/2011 07:43	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112915708005	10/26/2011 07:43	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112915708005	10/26/2011 07:43	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112915708005	10/26/2011 07:43	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112915708005	10/26/2011 07:43	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112915708005	10/26/2011 07:43	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	113005708002	10/31/2011 08:39	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112915708005	10/26/2011 07:43	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112911026002A	10/20/2011 07:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112911026002A	10/20/2011 07:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112911026002D	10/20/2011 07:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112911026002A	10/20/2011 07:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112911026002A	10/20/2011 07:00	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-033-SA5DS-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DS-SB-2.0-3.0

LLI Sample # SW 6439921
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 11:58

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL033 SDG#: DE270-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112911026002A	10/20/2011 07:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112911026002A	10/20/2011 07:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112911026002A	10/20/2011 07:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112911026002A	10/20/2011 07:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112911026002C	10/20/2011 07:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112911026002A	10/20/2011 07:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112911026002B	10/20/2011 07:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112911026002A	10/20/2011 07:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112911026002A	10/20/2011 07:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112911026002A	10/20/2011 07:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112911026002A	10/20/2011 07:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112915711005	10/19/2011 18:20	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112915708005	10/19/2011 11:04	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	113005708002	10/30/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112911026002	10/19/2011 11:39	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112915711005	10/19/2011 12:44	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11299621201B	10/27/2011 15:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11293621202A	10/24/2011 13:45	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11292243201B	10/20/2011 19:38	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11299621201B	10/26/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621202A	10/20/2011 07:10	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039402A	10/27/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11292243201A	10/19/2011 09:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402B	10/25/2011 18:30	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-034-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-4.0-5.0

LLI Sample # SW 6439922
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:53

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL034 SDG#: DE270-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-034-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-4.0-5.0

LLI Sample # SW 6439922
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:53

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL034 SDG#: DE270-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	34,200		6.89	22.8	1
07914	Boron	7440-42-8	4.91	J	0.410	5.69	1
01650	Calcium	7440-70-2	9,770		2.85	22.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-034-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-4.0-5.0

LLI Sample # SW 6439922
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:53

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL034 SDG#: DE270-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	36,000		14.9	114	5
01656	Lithium	7439-93-2	31.2		0.71	2.3	1
01657	Magnesium	7439-95-4	8,730		0.501	11.4	1
06958	Manganese	7439-96-5	367		0.0410	0.569	1
10145	Phosphorus	7723-14-0	258		0.399	11.4	1
01662	Potassium	7440-09-7	4,010		12.9	56.9	1
01667	Sodium	7440-23-5	132		6.78	114	1
07968	Strontium	7440-24-6	47.1		0.0285	0.569	1
06969	Tin	7440-31-5	2.76	J	0.364	11.4	1
06970	Titanium	7440-32-6	1,820		0.0809	1.14	1
10146	Zirconium	7440-67-7	5.12	J	0.524	5.69	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.126	J	0.0826	0.223	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.85		0.0893	0.447	2
06126	Barium	7440-39-3	162		0.118	0.447	2
06127	Beryllium	7440-41-7	0.879		0.0179	0.112	2
06128	Cadmium	7440-43-9	0.162		0.0491	0.112	2
06131	Chromium	7440-47-3	48.2		0.134	0.447	2
06132	Cobalt	7440-48-4	15.5		0.0223	0.112	2
06133	Copper	7440-50-8	21.3		0.0893	0.447	2
06135	Lead	7439-92-1	11.0		0.0114	0.223	2
06138	Molybdenum	7439-98-7	0.326		0.0558	0.112	2
06139	Nickel	7440-02-0	26.2		0.112	0.447	2
06141	Selenium	7782-49-2	0.220	J	0.0648	0.447	2
06142	Silver	7440-22-4	0.0230	J	0.0159	0.112	2
06145	Thallium	7440-28-0	0.441		0.0335	0.112	2
06148	Vanadium	7440-62-2	99.3		0.0246	0.112	2
06149	Zinc	7440-66-6	91.9		0.625	3.35	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0078	U	0.0078	0.110	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.9		0.91	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.2	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-034-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-4.0-5.0

LLI Sample # SW 6439922
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:53

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL034 SDG#: DE270-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.26	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	12.2	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11291SLD026	10/21/2011 05:25	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11292SLE026	10/22/2011 11:53	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11292SLE026	10/20/2011 10:45	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11291SLD026	10/18/2011 21:35	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112920031A	10/22/2011 23:39	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112920031A	10/20/2011 06:50	Katheryne V Sponheimer	1
01643	Aluminum	SW-846 6010B	1	112915708005	10/26/2011 07:07	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112915708005	10/26/2011 07:07	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112915708005	10/26/2011 07:07	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112915708005	10/27/2011 16:39	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	112915708005	10/26/2011 07:07	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112915708005	10/26/2011 07:07	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112915708005	10/26/2011 07:07	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112915708005	10/26/2011 07:07	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112915708005	10/26/2011 07:07	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112915708005	10/26/2011 07:07	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112915708005	10/26/2011 07:07	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112915708005	10/26/2011 07:07	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	113005708002	10/31/2011 08:01	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112915708005	10/26/2011 07:07	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112911026002A	10/20/2011 06:27	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112911026002A	10/20/2011 06:27	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112911026002D	10/20/2011 06:27	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112911026002A	10/20/2011 06:27	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112911026002A	10/20/2011 06:27	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-034-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-4.0-5.0

LLI Sample # SW 6439922
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:53

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL034 SDG#: DE270-03BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112911026002A	10/20/2011 06:27	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112911026002A	10/20/2011 06:27	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112911026002A	10/20/2011 06:27	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112911026002A	10/20/2011 06:27	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112911026002C	10/20/2011 06:27	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112911026002A	10/20/2011 06:27	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112911026002B	10/20/2011 06:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112911026002A	10/20/2011 06:27	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112911026002A	10/20/2011 06:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112911026002A	10/20/2011 06:27	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112911026002A	10/20/2011 06:27	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112915711005	10/19/2011 18:21	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112915708005	10/19/2011 11:04	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	113005708002	10/30/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112911026002	10/19/2011 11:39	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112915711005	10/19/2011 12:44	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11299621201B	10/27/2011 14:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11293621202A	10/21/2011 00:51	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11292243201B	10/20/2011 20:07	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11299621201B	10/26/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621202A	10/20/2011 07:10	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039402A	10/27/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11292243201B	10/19/2011 09:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402B	10/25/2011 18:30	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-034-SA5DS-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-4.0-5.0MS

LLI Sample # SW 6439923
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:53

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL034 SDG#: DE270-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800	19	190	1
04688	Acenaphthylene	208-96-8	1,900	19	190	1
04688	Aniline	62-53-3	1,300	190	560	1
04688	Anthracene	120-12-7	1,900	19	190	1
04688	Benzidine	92-87-5	4,300	1,300	3,700	1
04688	Benzo(a)anthracene	56-55-3	1,800	19	190	1
04688	Benzo(a)pyrene	50-32-8	1,800	19	190	1
04688	Benzo(b)fluoranthene	205-99-2	1,800	19	190	1
04688	Benzo(g,h,i)perylene	191-24-2	1,800	19	190	1
04688	Benzo(k)fluoranthene	207-08-9	1,800	19	190	1
04688	Benzoic acid	65-85-0	1,100	190	560	1
04688	Benzyl alcohol	100-51-6	1,800	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	1,900	19	190	1
04688	Butylbenzylphthalate	85-68-7	1,900	19	190	1
04688	Di-n-butylphthalate	84-74-2	1,900	19	190	1
04688	Carbazole	86-74-8	1,800	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	1,900	37	190	1
04688	4-Chloroaniline	106-47-8	1,100	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700	19	190	1
04688	2-Chloronaphthalene	91-58-7	1,200	19	190	1
04688	2-Chlorophenol	95-57-8	1,800	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800	37	190	1
04688	Chrysene	218-01-9	1,700	19	190	1
04688	Dibenz(a,h)anthracene	53-70-3	1,800	19	190	1
04688	Dibenzofuran	132-64-9	1,800	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	1,600	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	1,700	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	1,600	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	890	110	370	1
04688	2,4-Dichlorophenol	120-83-2	1,900	19	190	1
04688	Diethylphthalate	84-66-2	1,800	19	190	1
04688	2,4-Dimethylphenol	105-67-9	1,900	37	190	1
04688	3,5-Dimethylphenol	108-68-9	2,100	37	190	1
04688	Dimethylphthalate	131-11-3	1,800	19	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,200	190	560	1
04688	2,4-Dinitrophenol	51-28-5	1,200	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	1,800	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	1,900	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	1,900	19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800	19	370	1
04688	Fluoranthene	206-44-0	1,900	19	190	1
04688	Fluorene	86-73-7	1,900	19	190	1
04688	Hexachlorobenzene	118-74-1	1,800	19	190	1
04688	Hexachlorobutadiene	87-68-3	1,800	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	3,000	190	560	1
04688	Hexachloroethane	67-72-1	1,600	19	190	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800	19	190	1
04688	Isophorone	78-59-1	1,800	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-034-SA5DS-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-4.0-5.0MS

LLI Sample # SW 6439923
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:53

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL034 SDG#: DE270-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**	**ug/kg**	**ug/kg**	
04688	1-Methylnaphthalene	90-12-0	1,700	19	190	1
04688	2-Methylnaphthalene	91-57-6	1,700	19	190	1
04688	2-Methylphenol	95-48-7	1,800	37	190	1
04688	4-Methylphenol	106-44-5	1,700	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,700	19	190	1
04688	2-Nitroaniline	88-74-4	1,800	19	190	1
04688	3-Nitroaniline	99-09-2	1,800	37	190	1
04688	4-Nitroaniline	100-01-6	1,400	75	190	1
04688	Nitrobenzene	98-95-3	1,800	19	190	1
04688	2-Nitrophenol	88-75-5	1,800	19	190	1
04688	4-Nitrophenol	100-02-7	1,700	190	560	1
04688	N-Nitrosodimethylamine	62-75-9	1,700	37	190	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	1,900	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	2,000	19	190	1
04688	Pentachlorophenol	87-86-5	1,700	190	560	1
04688	Phenanthrene	85-01-8	1,800	19	190	1
04688	Phenol	108-95-2	1,800	19	190	1
04688	Pyrene	129-00-0	1,800	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	1,900	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	1,900	37	190	1
GC/MS Semivolatiles SW-846 8270C SIM			**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	30	0.75	1.9	1
10138	Acenaphthylene	208-96-8	28	0.37	1.9	1
10138	Anthracene	120-12-7	31	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	33	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	30	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	33	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	32	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	32	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	33	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	33	6.7	20	1
10138	Chrysene	218-01-9	33	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	31	0.75	1.9	1
10138	Diethylphthalate	84-66-2	32	6.7	20	1
10138	Dimethylphthalate	131-11-3	32	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	39	6.7	20	1
10138	Fluoranthene	206-44-0	33	0.75	1.9	1
10138	Fluorene	86-73-7	27	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	32	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	28	0.75	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-034-SA5DS-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-4.0-5.0MS

LLI Sample # SW 6439923
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:53

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL034 SDG#: DE270-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	28		0.75	1.9	1
10138	Naphthalene	91-20-3	29		0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	32		0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	31		6.7	20	1
10138	Phenanthrene	85-01-8	30		0.75	1.9	1
10138	Pyrene	129-00-0	32		0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8	1
10225	PCB-1016	12674-11-2	14		0.38	1.9	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9	1
10225	PCB-1260	11096-82-5	16		0.44	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	39,400		6.82	22.6	1
07914	Boron	7440-42-8	226		0.406	5.64	1
01650	Calcium	7440-70-2	13,300		2.82	22.6	1
01654	Iron	7439-89-6	36,200		14.7	113	5
01656	Lithium	7439-93-2	145		0.70	2.3	1
01657	Magnesium	7439-95-4	8,900		0.496	11.3	1
06958	Manganese	7439-96-5	400		0.0406	0.564	1
10145	Phosphorus	7723-14-0	388		0.395	11.3	1
01662	Potassium	7440-09-7	5,320		12.7	56.4	1
01667	Sodium	7440-23-5	1,210		6.71	113	1
07968	Strontium	7440-24-6	156		0.0282	0.564	1
06969	Tin	7440-31-5	391		0.361	11.3	1
06970	Titanium	7440-32-6	2,230		0.400	5.64	5
10146	Zirconium	7440-67-7	113		0.519	5.64	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.667		0.0843	0.228	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.32		0.0911	0.456	2
06126	Barium	7440-39-3	153		0.121	0.456	2
06127	Beryllium	7440-41-7	1.69		0.0182	0.114	2
06128	Cadmium	7440-43-9	1.35		0.0501	0.114	2
06131	Chromium	7440-47-3	53.6		0.137	0.456	2
06132	Cobalt	7440-48-4	70.7		0.0228	0.114	2
06133	Copper	7440-50-8	29.8		0.0911	0.456	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-034-SA5DS-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-4.0-5.0MS

LLI Sample # SW 6439923
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:53

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL034 SDG#: DE270-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06135	Lead	7439-92-1	12.7	0.0116	0.228	2
06138	Molybdenum	7439-98-7	11.0	0.0569	0.114	2
06139	Nickel	7440-02-0	34.0	0.114	0.456	2
06141	Selenium	7782-49-2	2.34	0.0661	0.456	2
06142	Silver	7440-22-4	11.5	0.0162	0.114	2
06145	Thallium	7440-28-0	0.820	0.0342	0.114	2
06148	Vanadium	7440-62-2	97.8	0.0251	0.114	2
06149	Zinc	7440-66-6	86.6	0.638	3.42	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.189	0.0075	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	11.9	0.90	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	614	10.3	34.2	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	38.7	1.1	5.6	5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	12.2	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11291SLD026	10/21/2011 05:50	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11292SLE026	10/22/2011 12:26	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11292SLE026	10/20/2011 10:45	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11291SLD026	10/18/2011 21:35	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112920031A	10/22/2011 23:57	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112920031A	10/20/2011 06:50	Katheryne V Sponheimer	1
01643	Aluminum	SW-846 6010B	1	112915708005	10/26/2011 07:19	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112915708005	10/26/2011 07:19	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112915708005	10/26/2011 07:19	Joanne M Gates	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-034-SA5DS-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-4.0-5.0MS

LLI Sample # SW 6439923
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:53

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL034 SDG#: DE270-03MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	112915708005	10/27/2011 16:50	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	112915708005	10/26/2011 07:19	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112915708005	10/26/2011 07:19	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112915708005	10/26/2011 07:19	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112915708005	10/26/2011 07:19	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112915708005	10/26/2011 07:19	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112915708005	10/26/2011 07:19	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112915708005	10/26/2011 07:19	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112915708005	10/26/2011 07:19	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	113005708002	10/31/2011 09:41	Tara L Snyder	5
10146	Zirconium	SW-846 6010B	1	112915708005	10/26/2011 07:19	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112911026002A	10/20/2011 06:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112911026002A	10/20/2011 06:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112911026002D	10/20/2011 06:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112911026002A	10/20/2011 06:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112911026002A	10/20/2011 06:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112911026002A	10/20/2011 06:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112911026002A	10/20/2011 06:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112911026002A	10/20/2011 06:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112911026002A	10/20/2011 06:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112911026002C	10/20/2011 06:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112911026002A	10/20/2011 06:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112911026002B	10/20/2011 06:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112911026002A	10/20/2011 06:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112911026002A	10/20/2011 06:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112911026002A	10/20/2011 06:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112911026002A	10/20/2011 06:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112915711005	10/19/2011 18:24	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112915708005	10/19/2011 11:04	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	113005708002	10/30/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112911026002	10/19/2011 11:39	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112915711005	10/19/2011 12:44	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11299621201B	10/27/2011 15:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11293621202A	10/21/2011 01:37	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11292243201B	10/20/2011 20:29	Elyse P Brunstetter	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11299621201B	10/26/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621202A	10/20/2011 07:10	William L Hamaker Jr	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11292243201B	10/19/2011 09:50	Michelle L Lalli	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402B	10/25/2011 18:30	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-034-SA5DS-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-4.0-5.0MSD

LLI Sample # SW 6439924
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:53

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL034 SDG#: DE270-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		19	190	1
04688	Acenaphthylene	208-96-8	1,900		19	190	1
04688	Aniline	62-53-3	1,300		190	570	1
04688	Anthracene	120-12-7	1,900		19	190	1
04688	Benzidine	92-87-5	4,300		1,300	3,800	1
04688	Benzo(a)anthracene	56-55-3	1,900		19	190	1
04688	Benzo(a)pyrene	50-32-8	1,900		19	190	1
04688	Benzo(b)fluoranthene	205-99-2	1,900		19	190	1
04688	Benzo(g,h,i)perylene	191-24-2	1,800		19	190	1
04688	Benzo(k)fluoranthene	207-08-9	1,900		19	190	1
04688	Benzoic acid	65-85-0	490	J	190	570	1
04688	Benzyl alcohol	100-51-6	1,800		190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	1,900		19	190	1
04688	Butylbenzylphthalate	85-68-7	1,900		19	190	1
04688	Di-n-butylphthalate	84-74-2	1,900		19	190	1
04688	Carbazole	86-74-8	1,800		19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	1,900		38	190	1
04688	4-Chloroaniline	106-47-8	1,200		76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800		19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		19	190	1
04688	2-Chloronaphthalene	91-58-7	1,800		19	190	1
04688	2-Chlorophenol	95-57-8	1,900		19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,900		38	190	1
04688	Chrysene	218-01-9	1,800		19	190	1
04688	Dibenz(a,h)anthracene	53-70-3	1,900		19	190	1
04688	Dibenzofuran	132-64-9	1,800		19	190	1
04688	1,2-Dichlorobenzene	95-50-1	1,700		19	190	1
04688	1,3-Dichlorobenzene	541-73-1	1,700		19	190	1
04688	1,4-Dichlorobenzene	106-46-7	1,700		19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	990		110	380	1
04688	2,4-Dichlorophenol	120-83-2	1,900		19	190	1
04688	Diethylphthalate	84-66-2	1,800		19	190	1
04688	2,4-Dimethylphenol	105-67-9	1,900		38	190	1
04688	3,5-Dimethylphenol	108-68-9	2,200		38	190	1
04688	Dimethylphthalate	131-11-3	1,900		19	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	330	J	190	570	1
04688	2,4-Dinitrophenol	51-28-5	450	J	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	1,900		38	190	1
04688	2,6-Dinitrotoluene	606-20-2	1,900		19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	1,900		19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800		19	380	1
04688	Fluoranthene	206-44-0	1,900		19	190	1
04688	Fluorene	86-73-7	1,900		19	190	1
04688	Hexachlorobenzene	118-74-1	1,900		19	190	1
04688	Hexachlorobutadiene	87-68-3	1,800		76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	3,000		190	570	1
04688	Hexachloroethane	67-72-1	1,600		19	190	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,900		19	190	1
04688	Isophorone	78-59-1	1,800		19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-034-SA5DS-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-4.0-5.0MSD

LLI Sample # SW 6439924
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:53

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL034 SDG#: DE270-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**	**ug/kg**	**ug/kg**	
04688	1-Methylnaphthalene	90-12-0	1,700	19	190	1
04688	2-Methylnaphthalene	91-57-6	1,800	19	190	1
04688	2-Methylphenol	95-48-7	1,900	38	190	1
04688	4-Methylphenol	106-44-5	1,800	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,800	19	190	1
04688	2-Nitroaniline	88-74-4	1,900	19	190	1
04688	3-Nitroaniline	99-09-2	1,800	38	190	1
04688	4-Nitroaniline	100-01-6	1,400	76	190	1
04688	Nitrobenzene	98-95-3	1,800	19	190	1
04688	2-Nitrophenol	88-75-5	1,800	19	190	1
04688	4-Nitrophenol	100-02-7	1,700	190	570	1
04688	N-Nitrosodimethylamine	62-75-9	1,600	38	190	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	1,900	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	2,000	19	190	1
04688	Pentachlorophenol	87-86-5	1,200	190	570	1
04688	Phenanthrene	85-01-8	1,800	19	190	1
04688	Phenol	108-95-2	1,900	19	190	1
04688	Pyrene	129-00-0	1,800	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,800	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	1,900	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	1,900	38	190	1
GC/MS Semivolatiles SW-846 8270C SIM			**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	32	0.75	1.9	1
10138	Acenaphthylene	208-96-8	30	0.37	1.9	1
10138	Anthracene	120-12-7	32	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	33	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	30	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	33	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	33	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	33	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	34	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	33	6.7	20	1
10138	Chrysene	218-01-9	33	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	31	0.75	1.9	1
10138	Diethylphthalate	84-66-2	33	6.7	20	1
10138	Dimethylphthalate	131-11-3	34	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	38	6.7	20	1
10138	Fluoranthene	206-44-0	34	0.75	1.9	1
10138	Fluorene	86-73-7	33	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	32	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	30	0.75	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-034-SA5DS-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-4.0-5.0MSD

LLI Sample # SW 6439924
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:53

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL034 SDG#: DE270-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	29		0.75	1.9	1
10138	Naphthalene	91-20-3	30		0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	34		0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	31		6.7	20	1
10138	Phenanthrene	85-01-8	32		0.75	1.9	1
10138	Pyrene	129-00-0	32		0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	12		0.38	1.9	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9	1
10225	PCB-1260	11096-82-5	14		0.44	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	40,900		6.63	21.9	1
07914	Boron	7440-42-8	222		0.394	5.48	1
01650	Calcium	7440-70-2	9,350		2.74	21.9	1
01654	Iron	7439-89-6	36,300		14.3	110	5
01656	Lithium	7439-93-2	141		0.68	2.2	1
01657	Magnesium	7439-95-4	9,000		0.482	11.0	1
06958	Manganese	7439-96-5	391		0.0394	0.548	1
10145	Phosphorus	7723-14-0	430		0.383	11.0	1
01662	Potassium	7440-09-7	5,320		12.4	54.8	1
01667	Sodium	7440-23-5	1,170		6.52	110	1
07968	Strontium	7440-24-6	154		0.0274	0.548	1
06969	Tin	7440-31-5	376		0.350	11.0	1
06970	Titanium	7440-32-6	2,290		0.389	5.48	5
10146	Zirconium	7440-67-7	108		0.504	5.48	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.664		0.0810	0.219	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.58		0.0876	0.438	2
06126	Barium	7440-39-3	174		0.116	0.438	2
06127	Beryllium	7440-41-7	1.82		0.0175	0.110	2
06128	Cadmium	7440-43-9	1.37		0.0482	0.110	2
06131	Chromium	7440-47-3	59.9		0.131	0.438	2
06132	Cobalt	7440-48-4	77.1		0.0219	0.110	2
06133	Copper	7440-50-8	32.1		0.0876	0.438	2

*=This limit was used in the evaluation of the final result

Sample Description: SL-034-SA5DS-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-4.0-5.0MSD

LLI Sample # SW 6439924
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:53

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL034 SDG#: DE270-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	
06135	Lead	7439-92-1	13.8	0.0112	0.219	2
06138	Molybdenum	7439-98-7	11.5	0.0548	0.110	2
06139	Nickel	7440-02-0	36.8	0.110	0.438	2
06141	Selenium	7782-49-2	2.68	0.0635	0.438	2
06142	Silver	7440-22-4	12.5	0.0156	0.110	2
06145	Thallium	7440-28-0	0.869	0.0329	0.110	2
06148	Vanadium	7440-62-2	108	0.0241	0.110	2
06149	Zinc	7440-66-6	95.5	0.613	3.29	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.198	0.0077	0.109	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.2	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11291SLD026	10/21/2011 06:16	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11292SLE026	10/22/2011 13:00	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11292SLE026	10/20/2011 10:45	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11291SLD026	10/18/2011 21:35	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112920031A	10/23/2011 00:16	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112920031A	10/20/2011 06:50	Katheryne V Sponheimer	1
01643	Aluminum	SW-846 6010B	1	112915708005	10/26/2011 07:23	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112915708005	10/26/2011 07:23	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112915708005	10/26/2011 07:23	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112915708005	10/27/2011 16:54	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	112915708005	10/26/2011 07:23	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112915708005	10/26/2011 07:23	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112915708005	10/26/2011 07:23	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112915708005	10/26/2011 07:23	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112915708005	10/26/2011 07:23	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112915708005	10/26/2011 07:23	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112915708005	10/26/2011 07:23	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112915708005	10/26/2011 07:23	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	113005708002	10/31/2011 09:45	Tara L Snyder	5

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-034-SA5DS-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-4.0-5.0MSD

LLI Sample # SW 6439924
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:53

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL034 SDG#: DE270-03MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	112915708005	10/26/2011 07:23	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112911026002A	10/20/2011 06:36	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112911026002A	10/20/2011 06:36	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112911026002D	10/20/2011 06:36	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112911026002A	10/20/2011 06:36	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112911026002A	10/20/2011 06:36	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112911026002A	10/20/2011 06:36	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112911026002A	10/20/2011 06:36	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112911026002A	10/20/2011 06:36	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112911026002A	10/20/2011 06:36	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112911026002C	10/20/2011 06:36	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112911026002A	10/20/2011 06:36	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112911026002B	10/20/2011 06:36	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112911026002A	10/20/2011 06:36	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112911026002A	10/20/2011 06:36	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112911026002A	10/20/2011 06:36	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112911026002A	10/20/2011 06:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112915711005	10/19/2011 18:25	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112915708005	10/19/2011 11:04	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	113005708002	10/30/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112911026002	10/19/2011 11:39	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112915711005	10/19/2011 12:44	James L Mertz	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402B	10/25/2011 18:30	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-034-SA5DS-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-4.0-5.0DUP

LLI Sample # SW 6439925
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:53

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL034 SDG#: DE270-03DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	33,500		6.56	21.7	1
07914	Boron	7440-42-8	4.02	J	0.390	5.42	1
01650	Calcium	7440-70-2	11,300		2.71	21.7	1
01654	Iron	7439-89-6	35,500		14.2	108	5
01656	Lithium	7439-93-2	30.7		0.67	2.2	1
01657	Magnesium	7439-95-4	8,530		0.477	10.8	1
06958	Manganese	7439-96-5	389		0.0390	0.542	1
10145	Phosphorus	7723-14-0	290		0.380	10.8	1
01662	Potassium	7440-09-7	3,900		12.3	54.2	1
01667	Sodium	7440-23-5	129		6.45	108	1
07968	Strontium	7440-24-6	47.0		0.0271	0.542	1
06969	Tin	7440-31-5	2.60	J	0.347	10.8	1
06970	Titanium	7440-32-6	1,850		0.0785	1.11	1
10146	Zirconium	7440-67-7	5.41	J	0.499	5.42	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.103	J	0.0843	0.228	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.47		0.0911	0.456	2
06126	Barium	7440-39-3	137		0.121	0.456	2
06127	Beryllium	7440-41-7	0.862		0.0182	0.114	2
06128	Cadmium	7440-43-9	0.145		0.0501	0.114	2
06131	Chromium	7440-47-3	39.2		0.137	0.456	2
06132	Cobalt	7440-48-4	14.0		0.0228	0.114	2
06133	Copper	7440-50-8	17.4		0.0911	0.456	2
06135	Lead	7439-92-1	9.85		0.0116	0.228	2
06138	Molybdenum	7439-98-7	0.200		0.0569	0.114	2
06139	Nickel	7440-02-0	20.8		0.114	0.456	2
06141	Selenium	7782-49-2	0.144	J	0.0661	0.456	2
06142	Silver	7440-22-4	0.0167	J	0.0162	0.114	2
06145	Thallium	7440-28-0	0.356		0.0342	0.114	2
06148	Vanadium	7440-62-2	77.0		0.0251	0.114	2
06149	Zinc	7440-66-6	75.4		0.638	3.42	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076	U	0.0076	0.109	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.0		0.93	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.2	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23	U	0.23	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-034-SA5DS-SB-4.0-5.0DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-4.0-5.0DUP

LLI Sample # SW 6439925
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:53

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL034 SDG#: DE270-03DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.27	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11626	28a Moisture Content by 160.3	n.a.	12.5	0.50	0.50	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					
11625	Moisture Content by 160.3	n.a.	12.2	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	112915708005	10/26/2011 07:15	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112915708005	10/26/2011 07:15	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112915708005	10/26/2011 07:15	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112915708005	10/27/2011 16:47	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	112915708005	10/26/2011 07:15	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112915708005	10/26/2011 07:15	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112915708005	10/26/2011 07:15	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112915708005	10/26/2011 07:15	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112915708005	10/26/2011 07:15	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112915708005	10/26/2011 07:15	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112915708005	10/26/2011 07:15	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112915708005	10/26/2011 07:15	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	113005708002	10/31/2011 08:09	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112915708005	10/26/2011 07:15	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112911026002A	10/20/2011 06:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112911026002A	10/20/2011 06:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112911026002D	10/20/2011 06:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112911026002A	10/20/2011 06:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112911026002A	10/20/2011 06:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112911026002A	10/20/2011 06:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112911026002A	10/20/2011 06:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112911026002A	10/20/2011 06:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112911026002A	10/20/2011 06:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112911026002C	10/20/2011 06:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112911026002A	10/20/2011 06:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112911026002B	10/20/2011 06:51	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-034-SA5DS-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-4.0-5.0DUP

LLI Sample # SW 6439925
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:53

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL034 SDG#: DE270-03DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	112911026002A	10/20/2011 06:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112911026002A	10/20/2011 06:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112911026002A	10/20/2011 06:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112911026002A	10/20/2011 06:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112915711005	10/19/2011 18:23	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112915708005	10/19/2011 11:04	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	113005708002	10/30/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112911026002	10/19/2011 11:39	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112915711005	10/19/2011 12:44	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11299621201B	10/27/2011 14:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11293621202A	10/21/2011 01:14	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11292243201B	10/20/2011 21:12	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11299621201B	10/26/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621202A	10/20/2011 07:10	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039402A	10/27/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11292243201B	10/19/2011 09:50	Michelle L Lalli	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11298162402B	10/25/2011 18:30	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402B	10/25/2011 18:30	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-034-SA5DS-SB-4.0-5.0RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-4.0-5.0RL MS

LLI Sample # SW 6439926
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:53

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL034 SDG#: DE270-03RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8	1
10225	PCB-1016	12674-11-2	1.8	J	0.38	1.9	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9	1
10225	PCB-1260	11096-82-5	2.0		0.44	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	
11625	Moisture Content by 160.3	n.a.	12.2		0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112920031A	10/23/2011 00:35	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112920031A	10/20/2011 06:50	Katheryne V Sponheimer	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402B	10/25/2011 18:30	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-034-SA5DS-SB-4.0-5.0RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-4.0-5.0RL LCS

LLI Sample # SW 6439927
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:53

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL034 SDG#: DE270-03RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3	1
10225	PCB-1016	12674-11-2	1.5	J	0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7	1
10225	PCB-1260	11096-82-5	1.8		0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112920031A	10/23/2011 00:53	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112920031A	10/20/2011 06:50	Katheryne V Sponheimer	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-034-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-9.0-10.0

LLI Sample # SW 6439928
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 09:58

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL349 SDG#: DE270-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	75	U	75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	75	U	75	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-034-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-9.0-10.0

LLI Sample # SW 6439928
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 09:58

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL349 SDG#: DE270-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9	1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,300		6.66	22.0	1
07914	Boron	7440-42-8	3.84	J	0.396	5.50	1
01650	Calcium	7440-70-2	8,610		2.75	22.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-034-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-9.0-10.0

LLI Sample # SW 6439928
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 09:58

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL349 SDG#: DE270-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	37,800		14.4	110	5
01656	Lithium	7439-93-2	40.4		0.68	2.2	1
01657	Magnesium	7439-95-4	9,470		0.484	11.0	1
06958	Manganese	7439-96-5	304		0.0396	0.550	1
10145	Phosphorus	7723-14-0	646		0.385	11.0	1
01662	Potassium	7440-09-7	4,670		12.4	55.0	1
01667	Sodium	7440-23-5	238		6.55	110	1
07968	Strontium	7440-24-6	42.0		0.0275	0.550	1
06969	Tin	7440-31-5	2.59	J	0.352	11.0	1
06970	Titanium	7440-32-6	1,870		0.0789	1.11	1
10146	Zirconium	7440-67-7	4.89	J	0.506	5.50	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.204	U	0.204	0.550	5
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony. Reporting limits for ICPMS metals were raised due to interference from the sample matrix.						
06125	Arsenic	7440-38-2	7.79		0.220	1.10	5
06126	Barium	7440-39-3	104		0.292	1.10	5
06127	Beryllium	7440-41-7	0.870		0.0440	0.275	5
06128	Cadmium	7440-43-9	0.136	J	0.121	0.275	5
06131	Chromium	7440-47-3	43.2		0.330	1.10	5
06132	Cobalt	7440-48-4	25.6		0.0550	0.275	5
06133	Copper	7440-50-8	22.9		0.220	1.10	5
06135	Lead	7439-92-1	12.6		0.0281	0.550	5
06138	Molybdenum	7439-98-7	0.239	J	0.138	0.275	5
06139	Nickel	7440-02-0	25.5		0.275	1.10	5
06141	Selenium	7782-49-2	0.165	J	0.0638	0.440	2
06142	Silver	7440-22-4	0.0391	U	0.0391	0.275	5
06145	Thallium	7440-28-0	0.391		0.0826	0.275	5
06148	Vanadium	7440-62-2	87.2		0.0605	0.275	5
06149	Zinc	7440-66-6	91.1		1.54	8.26	5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076	U	0.0076	0.109	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9		0.91	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.0	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.25	J	0.23	1.2	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-034-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-9.0-10.0

LLI Sample # SW 6439928
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 09:58

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL349 SDG#: DE270-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.57	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	11.8	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11291SLD026	10/21/2011 11:18	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11292SLE026	10/22/2011 14:39	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11292SLE026	10/20/2011 10:45	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11291SLD026	10/18/2011 21:35	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112920031A	10/23/2011 02:27	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112920031A	10/20/2011 06:50	Katheryne V Sponheimer	1
01643	Aluminum	SW-846 6010B	1	112915708005	10/26/2011 07:48	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112915708005	10/26/2011 07:48	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112915708005	10/26/2011 07:48	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112915708005	10/27/2011 17:06	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	112915708005	10/26/2011 07:48	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112915708005	10/26/2011 07:48	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112915708005	10/26/2011 07:48	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112915708005	10/26/2011 07:48	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112915708005	10/26/2011 07:48	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112915708005	10/26/2011 07:48	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112915708005	10/26/2011 07:48	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112915708005	10/26/2011 07:48	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	113005708002	10/31/2011 08:43	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112915708005	10/26/2011 07:48	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112911026002A	10/20/2011 07:17	Choon Y Tian	5
06125	Arsenic	SW-846 6020	1	112911026002A	10/20/2011 07:17	Choon Y Tian	5
06126	Barium	SW-846 6020	1	112911026002D	10/20/2011 07:17	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	112911026002A	10/20/2011 07:17	Choon Y Tian	5
06128	Cadmium	SW-846 6020	1	112911026002A	10/20/2011 07:17	Choon Y Tian	5

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-034-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-9.0-10.0

LLI Sample # SW 6439928
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 09:58

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL349 SDG#: DE270-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112911026002A	10/20/2011 07:17	Choon Y Tian	5
06132	Cobalt	SW-846 6020	1	112911026002A	10/20/2011 07:17	Choon Y Tian	5
06133	Copper	SW-846 6020	1	112911026002A	10/20/2011 07:17	Choon Y Tian	5
06135	Lead	SW-846 6020	1	112911026002A	10/20/2011 07:17	Choon Y Tian	5
06138	Molybdenum	SW-846 6020	1	112911026002C	10/20/2011 07:17	Choon Y Tian	5
06139	Nickel	SW-846 6020	1	112911026002A	10/20/2011 07:17	Choon Y Tian	5
06141	Selenium	SW-846 6020	1	112911026002B	10/20/2011 07:03	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112911026002A	10/20/2011 07:17	Choon Y Tian	5
06145	Thallium	SW-846 6020	1	112911026002A	10/20/2011 07:17	Choon Y Tian	5
06148	Vanadium	SW-846 6020	1	112911026002A	10/20/2011 07:17	Choon Y Tian	5
06149	Zinc	SW-846 6020	1	112911026002A	10/20/2011 07:17	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	112915711005	10/19/2011 18:26	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112915708005	10/19/2011 11:04	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	113005708002	10/30/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112911026002	10/19/2011 11:39	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112915711005	10/19/2011 12:44	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11299621201B	10/27/2011 16:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11293621202A	10/24/2011 14:08	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11292243201B	10/20/2011 21:27	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11299621201B	10/26/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621202A	10/20/2011 07:10	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039402A	10/27/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11292243201B	10/19/2011 09:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402B	10/25/2011 18:30	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-039-SA5DS-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DS-SB-3.0-4.0

LLI Sample # SW 6439929
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 14:35

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL039 SDG#: DE270-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-039-SA5DS-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DS-SB-3.0-4.0

LLI Sample # SW 6439929
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 14:35

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL039 SDG#: DE270-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19	1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	19	1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.5	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-039-SA5DS-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DS-SB-3.0-4.0

LLI Sample # SW 6439929
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 14:35

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL039 SDG#: DE270-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,100		6.36	21.0	1
07914	Boron	7440-42-8	4.03	J	0.379	5.26	1
01650	Calcium	7440-70-2	25,000		2.63	21.0	1
01654	Iron	7439-89-6	30,900		13.7	105	5
01656	Lithium	7439-93-2	38.6		0.65	2.1	1
01657	Magnesium	7439-95-4	8,820		0.463	10.5	1
06958	Manganese	7439-96-5	227		0.0379	0.526	1
10145	Phosphorus	7723-14-0	469		0.368	10.5	1
01662	Potassium	7440-09-7	4,320		11.9	52.6	1
01667	Sodium	7440-23-5	145		6.26	105	1
07968	Strontium	7440-24-6	91.0		0.0263	0.526	1
06969	Tin	7440-31-5	2.55	J	0.337	10.5	1
06970	Titanium	7440-32-6	1,480		0.0754	1.06	1
10146	Zirconium	7440-67-7	4.05	J	0.484	5.26	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.139	J	0.0771	0.208	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.97		0.0834	0.417	2
06126	Barium	7440-39-3	143		0.110	0.417	2
06127	Beryllium	7440-41-7	0.769		0.0167	0.104	2
06128	Cadmium	7440-43-9	0.131		0.0458	0.104	2
06131	Chromium	7440-47-3	44.7		0.125	0.417	2
06132	Cobalt	7440-48-4	15.0		0.0208	0.104	2
06133	Copper	7440-50-8	19.2		0.0834	0.417	2
06135	Lead	7439-92-1	10.1		0.0106	0.208	2
06138	Molybdenum	7439-98-7	0.235		0.0521	0.104	2
06139	Nickel	7440-02-0	24.3		0.104	0.417	2
06141	Selenium	7782-49-2	0.294	J	0.0604	0.417	2
06142	Silver	7440-22-4	0.0229	J	0.0148	0.104	2
06145	Thallium	7440-28-0	0.391		0.0313	0.104	2
06148	Vanadium	7440-62-2	78.6		0.0229	0.104	2
06149	Zinc	7440-66-6	90.0		0.584	3.13	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	U	0.0073	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-039-SA5DS-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DS-SB-3.0-4.0

LLI Sample # SW 6439929
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 14:35

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL039 SDG#: DE270-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.59	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.6	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11291SLD026	10/21/2011 11:43	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11292SLE026	10/22/2011 15:12	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11292SLE026	10/20/2011 10:45	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11291SLD026	10/18/2011 21:35	Karen L Beyer	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112980018A	10/26/2011 18:54	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112920031A	10/23/2011 02:46	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112920031A	10/20/2011 06:50	Katheryne V Sponheimer	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112980018A	10/26/2011 09:00	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	112915708005	10/26/2011 07:52	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112915708005	10/26/2011 07:52	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112915708005	10/26/2011 07:52	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112915708005	10/27/2011 17:17	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	112915708005	10/26/2011 07:52	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112915708005	10/26/2011 07:52	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112915708005	10/26/2011 07:52	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112915708005	10/26/2011 07:52	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112915708005	10/26/2011 07:52	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112915708005	10/26/2011 07:52	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112915708005	10/26/2011 07:52	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112915708005	10/26/2011 07:52	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	113005708002	10/31/2011 08:48	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112915708005	10/26/2011 07:52	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112911026002A	10/20/2011 07:06	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-039-SA5DS-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DS-SB-3.0-4.0

LLI Sample # SW 6439929
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 14:35

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL039 SDG#: DE270-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	112911026002A	10/20/2011 07:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112911026002D	10/20/2011 07:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112911026002A	10/20/2011 07:06	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112911026002A	10/20/2011 07:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112911026002A	10/20/2011 07:06	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112911026002A	10/20/2011 07:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112911026002A	10/20/2011 07:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112911026002A	10/20/2011 07:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112911026002C	10/20/2011 07:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112911026002A	10/20/2011 07:06	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112911026002B	10/20/2011 07:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112911026002A	10/20/2011 07:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112911026002A	10/20/2011 07:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112911026002A	10/20/2011 07:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112911026002A	10/20/2011 07:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112915711005	10/19/2011 18:27	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112915708005	10/19/2011 11:04	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	113005708002	10/30/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112911026002	10/19/2011 11:39	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112915711005	10/19/2011 12:44	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11299621201B	10/27/2011 16:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11293621202A	10/24/2011 14:31	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11292243201B	10/20/2011 21:34	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11299621201B	10/26/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621202A	10/20/2011 07:10	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039402A	10/27/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11292243201B	10/19/2011 09:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402B	10/25/2011 18:30	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP03-SA5DS-QC-101711 Soil
SSFL Area IV Collocated Soil Sampling
DUP03-SA5DS-QC-101711

LLI Sample # SW 6439930
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:44

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP03 SDG#: DE270-06FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U	190	570	1
04688	Benzyl alcohol	100-51-6	190	U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190	1
04688	4-Chloroaniline	106-47-8	76	U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	38	U	38	190	1
04688	4-Methylphenol	106-44-5	38	U	38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	38	U	38	190	1
04688	4-Nitroaniline	100-01-6	76	U	76	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	570	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	570	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP03-SA5DS-QC-101711 Soil**
SSFL Area IV Collocated Soil Sampling
DUP03-SA5DS-QC-101711

LLI Sample # SW 6439930
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:44

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP03 SDG#: DE270-06FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U	6.8	20	1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.8	U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8	U	6.8	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8	U	6.8	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8	U	6.8	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38	U	0.38	1.9	1
10225	PCB-1221	11104-28-2	0.38	U	0.38	1.9	1
10225	PCB-1232	11141-16-5	0.38	U	0.38	1.9	1
10225	PCB-1242	53469-21-9	0.38	U	0.38	1.9	1
10225	PCB-1248	12672-29-6	0.38	U	0.38	1.9	1
10225	PCB-1254	11097-69-1	0.38	U	0.38	1.9	1
10225	PCB-1260	11096-82-5	0.45	U	0.45	1.9	1
10225	PCB-1262	37324-23-5	0.38	U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38	U	0.38	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	34,700		6.86	22.7	1
07914	Boron	7440-42-8	4.65	J	0.408	5.67	1
01650	Calcium	7440-70-2	14,900		2.84	22.7	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP03-SA5DS-QC-101711 Soil**
SSFL Area IV Collocated Soil Sampling
DUP03-SA5DS-QC-101711

LLI Sample # SW 6439930
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:44

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP03 SDG#: DE270-06FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	36,000		14.8	113	5
01656	Lithium	7439-93-2	31.7		0.70	2.3	1
01657	Magnesium	7439-95-4	8,640		0.499	11.3	1
06958	Manganese	7439-96-5	327		0.0408	0.567	1
10145	Phosphorus	7723-14-0	295		0.397	11.3	1
01662	Potassium	7440-09-7	3,840		12.8	56.7	1
01667	Sodium	7440-23-5	135		6.75	113	1
07968	Strontium	7440-24-6	49.0		0.0284	0.567	1
06969	Tin	7440-31-5	2.70	J	0.363	11.3	1
06970	Titanium	7440-32-6	1,820		0.0782	1.10	1
10146	Zirconium	7440-67-7	4.85	J	0.522	5.67	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.208	U	0.208	0.562	5
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony. Reporting limits for ICPMS metals were raised due to interference from the sample matrix.						
06125	Arsenic	7440-38-2	6.43		0.225	1.12	5
06126	Barium	7440-39-3	133		0.298	1.12	5
06127	Beryllium	7440-41-7	0.852		0.0449	0.281	5
06128	Cadmium	7440-43-9	0.154	J	0.124	0.281	5
06131	Chromium	7440-47-3	40.0		0.337	1.12	5
06132	Cobalt	7440-48-4	12.7		0.0562	0.281	5
06133	Copper	7440-50-8	18.3		0.225	1.12	5
06135	Lead	7439-92-1	9.38		0.0286	0.562	5
06138	Molybdenum	7439-98-7	0.262	J	0.140	0.281	5
06139	Nickel	7440-02-0	21.8		0.281	1.12	5
06141	Selenium	7782-49-2	0.163	U	0.163	1.12	5
06142	Silver	7440-22-4	0.0399	U	0.0399	0.281	5
06145	Thallium	7440-28-0	0.290		0.0842	0.281	5
06148	Vanadium	7440-62-2	81.3		0.0618	0.281	5
06149	Zinc	7440-66-6	77.6		1.57	8.42	5
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0080	U	0.0080	0.113	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.4		0.92	1.2	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3	U	10.3	34.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP03-SA5DS-QC-101711 Soil**
SSFL Area IV Collocated Soil Sampling
DUP03-SA5DS-QC-101711

LLI Sample # SW 6439930
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:44

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP03 SDG#: DE270-06FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.50	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11291SLD026	10/21/2011 12:08	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11292SLE026	10/22/2011 15:45	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11292SLE026	10/20/2011 10:45	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11291SLD026	10/18/2011 21:35	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112920031A	10/23/2011 03:05	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112920031A	10/20/2011 06:50	Katheryne V Sponheimer	1
01643	Aluminum	SW-846 6010B	1	112915708005	10/26/2011 07:56	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	112915708005	10/26/2011 07:56	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	112915708005	10/26/2011 07:56	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	112915708005	10/27/2011 17:21	Eric L Eby	5
01656	Lithium	SW-846 6010B	1	112915708005	10/26/2011 07:56	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	112915708005	10/26/2011 07:56	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	112915708005	10/26/2011 07:56	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	112915708005	10/26/2011 07:56	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	112915708005	10/26/2011 07:56	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	112915708005	10/26/2011 07:56	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	112915708005	10/26/2011 07:56	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	112915708005	10/26/2011 07:56	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	113005708002	10/31/2011 08:52	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112915708005	10/26/2011 07:56	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	112911026002A	10/20/2011 07:32	Choon Y Tian	5
06125	Arsenic	SW-846 6020	1	112911026002A	10/20/2011 07:32	Choon Y Tian	5
06126	Barium	SW-846 6020	1	112911026002D	10/20/2011 07:32	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	112911026002A	10/20/2011 07:32	Choon Y Tian	5
06128	Cadmium	SW-846 6020	1	112911026002A	10/20/2011 07:32	Choon Y Tian	5

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP03-SA5DS-QC-101711 Soil
SSFL Area IV Collocated Soil Sampling
DUP03-SA5DS-QC-101711

LLI Sample # SW 6439930
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:44

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DUP03 SDG#: DE270-06FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112911026002A	10/20/2011 07:32	Choon Y Tian	5
06132	Cobalt	SW-846 6020	1	112911026002A	10/20/2011 07:32	Choon Y Tian	5
06133	Copper	SW-846 6020	1	112911026002A	10/20/2011 07:32	Choon Y Tian	5
06135	Lead	SW-846 6020	1	112911026002A	10/20/2011 07:32	Choon Y Tian	5
06138	Molybdenum	SW-846 6020	1	112911026002C	10/20/2011 07:32	Choon Y Tian	5
06139	Nickel	SW-846 6020	1	112911026002A	10/20/2011 07:32	Choon Y Tian	5
06141	Selenium	SW-846 6020	1	112911026002B	10/20/2011 07:32	Choon Y Tian	5
06142	Silver	SW-846 6020	1	112911026002A	10/20/2011 07:32	Choon Y Tian	5
06145	Thallium	SW-846 6020	1	112911026002A	10/20/2011 07:32	Choon Y Tian	5
06148	Vanadium	SW-846 6020	1	112911026002A	10/20/2011 07:32	Choon Y Tian	5
06149	Zinc	SW-846 6020	1	112911026002A	10/20/2011 07:32	Choon Y Tian	5
00159	Mercury	SW-846 7471A	1	112915711005	10/19/2011 18:31	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112915708005	10/19/2011 11:04	James L Mertz	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	113005708002	10/30/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112911026002	10/19/2011 11:39	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112915711005	10/19/2011 12:44	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11299621201B	10/27/2011 17:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11293621202A	10/24/2011 14:54	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11292243201B	10/20/2011 21:48	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11299621201B	10/26/2011 06:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621202A	10/20/2011 07:10	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039402A	10/27/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11292243201B	10/19/2011 09:50	Michelle L Lalli	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402B	10/25/2011 18:30	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA5DS-SB-101711 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA5DS-SB-101711

LLI Sample # WW 6439931
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 14:30

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB117 SDG#: DE270-07EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	3.54	0.530	1.06	1

N-Nitrosodimethylamine was detected in the method blank at a concentration of .718 ng/l. The blank value was not subtracted from the analytical result. Sufficient sample was unavailable to repeat the analysis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11292WAA026	11/01/2011 19:17	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11292WAA026	10/19/2011 15:00	Wanda F Oswald	1

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Analysis Report

Sample Description: TB-101711 Water
SSFL Area IV Collocated Soil Sampling
TB-101711

LLI Sample # WW 6439932
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 08:00

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB117 SDG#: DE270-08TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	0.489 U	0.489	0.978	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11292WAA026	11/01/2011 19:36	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11292WAA026	10/19/2011 15:00	Wanda F Oswald	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: TB-101711 Sand
SSFL Area IV Collocated Soil Sampling
TB-101711

LLI Sample # SW 6439933
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 08:00

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB17S SDG#: DE270-09TB

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	105		16.6	33.2	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.50	U	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11291SLG026	11/02/2011 02:14	Matthew S Woods	1
11630	NDMA Soil Microwave	SW-846 3546	1	11291SLG026	10/19/2011 06:50	Katheryne V Sponheimer	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402B	10/25/2011 18:30	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-101711 Water**
SSFL Area IV Collocated Soil Sampling
TB-101711

LLI Sample # WW 6439934
LLI Group # 1271741
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 08:00

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 09:54

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB17V SDG#: DE270-10TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11294B20A	10/24/2011 12:38	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	11294B20A	10/24/2011 12:38	Catherine J Schwarz	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271741
Reported: 11/04/11 at 09:54 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11291SLD026	Sample number(s): 6439920-6439924,6439928-6439930									
Acenaphthene	17	U	17.	170	ug/kg	95		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	100		75-122		
Aniline	170 U		170.	500	ug/kg	68		20-115		
Anthracene	17	U	17.	170	ug/kg	100		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	57		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	98		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	98		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	95		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	99		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	99		67-125		
Benzoic acid	170 U		170.	500	ug/kg	65		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	91		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	101		73-114		
Butylbenzylphthalate	17	U	17.	170	ug/kg	101		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	103		79-112		
Carbazole	17	U	17.	170	ug/kg	99		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	97		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	47		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	94		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	90		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	91		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	94		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	96		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	97		74-115		
Chrysene	17	U	17.	170	ug/kg	94		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	96		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	94		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	89		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	89		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	89		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	43		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	99		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	97		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	97		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	119		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	96		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	47		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	26		18-133		

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271741
Reported: 11/04/11 at 09:54 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	96		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	101		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	102		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	97		75-117		
Fluoranthene	17	U	17.	170	ug/kg	101		78-116		
Fluorene	17	U	17.	170	ug/kg	100		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	99		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	97		65-117		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	86		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	87		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	100		64-119		
Isophorone	17	U	17.	170	ug/kg	94		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	90		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	92		69-109		
2-Methylphenol	33	U	33.	170	ug/kg	95		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	90		66-117		
Naphthalene	17	U	17.	170	ug/kg	94		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	95		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	93		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	72		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	94		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	95		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	91		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	86		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	88		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	101		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	105		62-137		
Pentachlorophenol	170	U	170.	500	ug/kg	85		51-117		
Phenanthrene	17	U	17.	170	ug/kg	97		77-113		
Phenol	17	U	17.	170	ug/kg	95		58-112		
Pyrene	17	U	17.	170	ug/kg	95		75-115		
Tetralin	170	U	170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	93		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	96		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	99		78-111		
Batch number: 11291SLG026	Sample number(s): 6439933									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	105		70-130		
Batch number: 11292SLE026	Sample number(s): 6439920-6439924,6439928-6439930									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	91		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	84		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	91		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	96		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	88		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	100		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	95		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	94		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	93		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	98		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	98		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	91		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	95		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	95		79-121		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271741
Reported: 11/04/11 at 09:54 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	102		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	97		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	93		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	92		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	84		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	84		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	89		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	89		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	89		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	93		72-119		
Batch number: 11292WAA026	Sample number(s): 6439931-6439932									
N-Nitrosodimethylamine	0.718	J	0.500	1.00	ng/l	94	100	70-130	6	30
Batch number: 11293A16A	Sample number(s): 6439920									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	76		67-119		
Batch number: 11294B20A	Sample number(s): 6439934									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 112980018A	Sample number(s): 6439929									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	100		85-115		
Batch number: 112920031A	Sample number(s): 6439920-6439924,6439926-6439930									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	66	67	36-106	0	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	88		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	96		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112920034A	Sample number(s): 6439920									
Ethanol	100 U		100.	500	ug/kg	85		71-129		
Isopropanol	100 U		100.	500	ug/kg	89		75-125		
Methanol	100 U		100.	500	ug/kg	76		68-129		
Batch number: 112930029A	Sample number(s): 6439920									
Diethylene glycol	5.0	U	5.0	10	mg/kg	100		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	102		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	98		67-131		
Batch number: 112920027A	Sample number(s): 6439920									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	94		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	96		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	97		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	85		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	83		49-107		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271741
Reported: 11/04/11 at 09:54 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 112920028A	Sample number(s): 6439920									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	100		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	105		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	98		69-109		
Batch number: 112911026002A	Sample number(s): 6439920-6439925,6439928-6439930									
Antimony	0.0733	U	0.0733	0.198	mg/kg	80		40-227		
Arsenic	0.0792	U	0.0792	0.396	mg/kg	100		83-111		
Beryllium	0.0158	U	0.0158	0.0990	mg/kg	101		84-112		
Cadmium	0.0436	U	0.0436	0.0990	mg/kg	105		83-111		
Chromium	0.119	U	0.119	0.396	mg/kg	111		77-123		
Cobalt	0.0198	U	0.0198	0.0990	mg/kg	108		85-114		
Copper	0.0792	U	0.0792	0.396	mg/kg	105		81-110		
Lead	0.0154	J	0.0101	0.198	mg/kg	97		84-112		
Nickel	0.0990	U	0.0990	0.396	mg/kg	100		81-110		
Silver	0.0141	U	0.0141	0.0990	mg/kg	100		83-112		
Thallium	0.0297	U	0.0297	0.0990	mg/kg	99		82-112		
Vanadium	0.307		0.0218	0.0990	mg/kg	101		76-110		
Zinc	0.554	U	0.554	2.97	mg/kg	100		82-110		
Batch number: 112911026002B	Sample number(s): 6439920-6439925,6439928-6439930									
Selenium	0.0574	U	0.0574	0.396	mg/kg	105		79-110		
Batch number: 112911026002C	Sample number(s): 6439920-6439925,6439928-6439930									
Molybdenum	0.0495	U	0.0495	0.0990	mg/kg	100		80-110		
Batch number: 112911026002D	Sample number(s): 6439920-6439925,6439928-6439930									
Barium	0.112	J	0.105	0.396	mg/kg	103		83-110		
Batch number: 112915708005	Sample number(s): 6439920-6439925,6439928-6439930									
Aluminum	6.05	U	6.05	20.0	mg/kg	88		40-127		
Boron	0.360	U	0.360	5.00	mg/kg	100		83-110		
Calcium	8.59	J	2.50	20.0	mg/kg	105		81-110		
Iron	2.61	U	2.61	20.0	mg/kg	83		47-129		
Lithium	0.62	U	0.62	2.0	mg/kg	103		80-120		
Magnesium	0.440	U	0.440	10.0	mg/kg	91		63-116		
Manganese	0.0360	U	0.0360	0.500	mg/kg	99		85-116		
Phosphorus	1.21	J	0.350	10.0	mg/kg	105		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	103		71-110		
Sodium	5.95	U	5.95	100	mg/kg	101		76-110		
Strontium	0.0330	J	0.0250	0.500	mg/kg	100		84-110		
Tin	1.48	J	0.320	10.0	mg/kg	99		86-120		
Zirconium	0.460	U	0.460	5.00	mg/kg	103		80-120		
Batch number: 112915711005	Sample number(s): 6439920-6439925,6439928-6439930									
Mercury	0.0067	U	0.0067	0.0957	mg/kg	102		83-119		
Batch number: 113005708002	Sample number(s): 6439920-6439925,6439928-6439930									
Titanium	0.0710	U	0.0710	1.00	mg/kg	119		80-120		
Batch number: 11292243201B	Sample number(s): 6439920-6439923,6439925,6439928-6439930									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	81		80-120		
Batch number: 11293102201B	Sample number(s): 6439920									
16a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	85		80-120		
Batch number: 11293621202A	Sample number(s): 6439920-6439923,6439925,6439928-6439930									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	105		85-115		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271741
Reported: 11/04/11 at 09:54 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11299621201B	Sample number(s): 6439920-6439923,6439925,6439928-6439930								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	104		90-110		
Batch number: 11300039402A	Sample number(s): 6439920-6439922,6439925,6439928-6439930								
17a pH by 9045C					100		95-105		
Batch number: 11298162402B	Sample number(s): 6439920-6439926,6439928-6439930,6439933								
28a Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11291SLD026	Sample number(s): 6439920-6439924,6439928-6439930 UNSPK: 6439922								
Acenaphthene	96	97	75-115	2	30				
Acenaphthylene	103	102	81-110	1	30				
Aniline	71	71	18-116	0	30				
Anthracene	99	99	75-115	1	30				
Benzidine	46	46	35-141	1	30				
Benzo(a)anthracene	97	99	65-122	3	30				
Benzo(a)pyrene	97	100	57-126	3	30				
Benzo(b)fluoranthene	98	101	59-125	3	30				
Benzo(g,h,i)perylene	95	97	59-127	3	30				
Benzo(k)fluoranthene	97	99	56-132	3	30				
Benzoic acid	58	26	10-173	75*	30				
Benzyl alcohol	94	96	67-115	3	30				
4-Bromophenyl-phenylether	100	100	67-129	1	30				
Butylbenzylphthalate	99	99	73-134	1	30				
Di-n-butylphthalate	101	101	67-123	1	30				
Carbazole	98	97	64-120	0	30				
4-Chloro-3-methylphenol	99	98	62-122	0	30				
4-Chloroaniline	57	64	13-107	13	30				
bis(2-Chloroethoxy)methane	95	96	75-104	2	30				
bis(2-Chloroethyl)ether	90	92	60-116	2	30				
bis(2-Chloroisopropyl)ether	91	91	55-142	1	30				
2-Chloronaphthalene	67	93	50-141	34*	30				
2-Chlorophenol	97	99	73-121	3	30				
4-Chlorophenyl-phenylether	99	99	80-109	1	30				
Chrysene	93	94	62-128	1	30				
Dibenz(a,h)anthracene	95	99	65-125	5	30				
Dibenzofuran	95	95	71-112	1	30				
1,2-Dichlorobenzene	88	88	66-108	1	30				
1,3-Dichlorobenzene	88	88	63-109	0	30				
1,4-Dichlorobenzene	88	88	58-108	1	30				
3,3'-Dichlorobenzidine	47	52	28-109	11	30				
2,4-Dichlorophenol	102	101	66-123	1	30				
Diethylphthalate	99	97	66-118	0	30				
2,4-Dimethylphenol	99	98	68-118	0	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271741
Reported: 11/04/11 at 09:54 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
3,5-Dimethylphenol	111	118	71-127	8	30				
Dimethylphthalate	99	98	64-118	1	30				
4,6-Dinitro-2-methylphenol	63	18	11-126	112*	30				
2,4-Dinitrophenol	33	12*	20-143	93*	30				
2,4-Dinitrotoluene	98	98	56-129	1	30				
2,6-Dinitrotoluene	101	102	69-123	2	30				
1,2-Diphenylhydrazine	100	100	71-129	1	30				
bis(2-Ethylhexyl)phthalate	98	97	63-122	1	30				
Fluoranthene	101	100	73-112	0	30				
Fluorene	102	102	63-121	1	30				
Hexachlorobenzene	98	98	77-114	1	30				
Hexachlorobutadiene	95	96	62-120	2	30				
Hexachlorocyclopentadiene	80	80	10-153	2	30				
Hexachloroethane	87	85	57-109	1	30				
Indeno(1,2,3-cd)pyrene	96	98	61-126	3	30				
Isophorone	95	95	73-102	1	30				
1-Methylnaphthalene	92	91	64-122	0	30				
2-Methylnaphthalene	92	93	76-114	1	30				
2-Methylphenol	97	98	75-111	2	30				
4-Methylphenol	93	94	59-123	2	30				
Naphthalene	93	94	72-116	2	30				
2-Nitroaniline	99	100	67-125	2	30				
3-Nitroaniline	95	95	59-122	1	30				
4-Nitroaniline	76	75	41-109	0	30				
Nitrobenzene	94	95	57-125	2	30				
2-Nitrophenol	95	96	56-127	2	30				
4-Nitrophenol	93	89	37-129	3	30				
N-Nitroso-di-n-propylamine	87	88	60-116	2	30				
N-Nitrosodimethylamine	91	85	47-116	6	30				
N-Nitrosodiphenylamine	101	100	71-122	0	30				
Di-n-octylphthalate	105	106	56-126	2	30				
Pentachlorophenol	89	64	28-127	32*	30				
Phenanthrene	96	97	65-125	2	30				
Phenol	94	98	58-126	5	30				
Pyrene	95	95	74-126	1	30				
1,2,4-Trichlorobenzene	93	94	72-115	2	30				
2,4,5-Trichlorophenol	100	99	58-129	0	30				
2,4,6-Trichlorophenol	99	99	56-134	1	30				
Batch number: 11291SLG026	Sample number(s): 6439933 UNSPK: P437195								
N-Nitrosodimethylamine	97	95	70-130	2	30				
Batch number: 11292SLE026	Sample number(s): 6439920-6439924,6439928-6439930 UNSPK: 6439922								
Acenaphthene	81	85	63-105	5	30				
Acenaphthylene	76	80	67-114	6	30				
Anthracene	84	86	73-115	3	30				
Benzo(a)anthracene	89	88	59-128	1	30				
Benzo(a)pyrene	81	81	58-142	0	30				
Benzo(b)fluoranthene	87	88	54-163	1	30				
Benzo(g,h,i)perylene	86	87	33-141	2	30				
Benzo(k)fluoranthene	85	88	57-153	3	30				
Butylbenzylphthalate	87	90	57-173	4	30				
Di-n-butylphthalate	89	89	65-148	0	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271741
Reported: 11/04/11 at 09:54 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Chrysene	89	89	67-123	0	30				
Dibenz(a,h)anthracene	84	83	22-133	0	30				
Diethylphthalate	86	88	70-136	1	30				
Dimethylphthalate	87	90	74-118	4	30				
Bis(2-Ethylhexyl)phthalate	103	101	39-167	2	30				
Fluoranthene	88	90	51-149	2	30				
Fluorene	73	88	66-122	18	30				
Indeno(1,2,3-cd)pyrene	84	85	21-143	1	30				
1-Methylnaphthalene	75	80	72-123	6	30				
2-Methylnaphthalene	75	79	64-103	5	30				
Naphthalene	77	80	61-102	5	30				
N-Nitrosodimethylamine	85	90	48-113	6	30				
Di-n-octylphthalate	83	82	40-192	1	30				
Phenanthrene	81	85	62-122	5	30				
Pyrene	85	85	51-131	0	30				
Batch number: 11293A16A	Sample number(s): 6439920 UNSPK: P437195								
9a TPH by EPA 8015B Gas C5-C12	77	76	39-118	9	30				
Batch number: 112980018A	Sample number(s): 6439929 UNSPK: 6439929								
6a Perchlorate EPA 6850	100	104	80-120	4	20				
Batch number: 112920031A	Sample number(s): 6439920-6439924,6439926-6439930 UNSPK: 6439922								
PCB-1016	72	65	29-146	11	50				
PCB-1260	83	75	39-149	11	50				
Batch number: 112920034A	Sample number(s): 6439920 UNSPK: 6439920								
Ethanol	81	80	48-130	1	20				
Isopropanol	82	82	12-149	1	20				
Methanol	85	86	43-138	1	20				
Batch number: 112930029A	Sample number(s): 6439920 UNSPK: P435690								
Diethylene glycol	5*	8*	59-109	42*	20				
Ethylene glycol	47*	45*	63-107	6	20				
Propylene glycol	65	62*	63-107	5	20				
Batch number: 112920027A	Sample number(s): 6439920 UNSPK: P437195								
EFH (C12-C14)	82	89	49-123	8	20				
EFH (C15-C20)	81	98	49-123	13	20				
EFH (C21-C30)	102	117	49-123	7	20				
EFH (C30 - C40)	110	138*	49-123	8	20				
EFH (C8-C11)	0*	5*	49-123	10	20				
Batch number: 112920028A	Sample number(s): 6439920 UNSPK: P437195								
m-Terphenyl	97	98	75-125	2	20				
o-Terphenyl	102	103	75-125	1	20				
p-Terphenyl	95	97	75-125	2	20				
Batch number: 112911026002A	Sample number(s): 6439920-6439925,6439928-6439930 UNSPK: 6439922 BKG: 6439922								
Antimony	40*	41*	75-125	0	20	0.110 J	0.0903 J	20 (1)	20
Arsenic	64*	79	75-125	3	20	6.02	4.80	22*	20
Beryllium	89	108	75-125	8	20	0.772	0.757	2	20
Cadmium	104	110	75-125	1	20	0.142	0.127	11 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271741
Reported: 11/04/11 at 09:54 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Chromium	48 (2)	108 (2)	75-125	11	20	42.3	34.4	20	20
Cobalt	97	113	75-125	9	20	13.6	12.3	10	20
Copper	75	99	75-125	7	20	18.7	15.3	20	20
Lead	48*	83	75-125	8	20	9.68	8.65	11	20
Nickel	69*	97	75-125	8	20	23.0	18.3	23*	20
Silver	101	114	75-125	9	20	0.0202 J	0.0147 J	32* (1)	20
Thallium	83	98	75-125	6	20	0.387	0.312	21* (1)	20
Vanadium	-13 (2)	77 (2)	75-125	10	20	87.2	67.6	25*	20
Zinc	-47 (2)	32 (2)	75-125	10	20	80.7	66.2	20	20
Batch number: 112911026002B	Sample number(s): 6439920-6439925,6439928-6439930 UNSPK: 6439922 BKG: 6439922								
Selenium	93	112	75-125	14	20	0.193 J	0.126 J	42* (1)	20
Batch number: 112911026002C	Sample number(s): 6439920-6439925,6439928-6439930 UNSPK: 6439922 BKG: 6439922								
Molybdenum	94	102	75-125	4	20	0.286	0.176	48* (1)	20
Batch number: 112911026002D	Sample number(s): 6439920-6439925,6439928-6439930 UNSPK: 6439922 BKG: 6439922								
Barium	-84 (2)	107 (2)	75-125	13	20	142	121	16	20
Batch number: 112915708005	Sample number(s): 6439920-6439925,6439928-6439930 UNSPK: 6439922 BKG: 6439922								
Aluminum	2292 (2)	3042 (2)	75-125	4	20	30,000	29,400	2	20
Boron	98	99	84-115	2	20	4.31 J	3.53 J	20 (1)	20
Calcium	792 (2)	-96 (2)	75-125	35*	20	8,580	9,930	15	20
Iron	181 (2)	299 (2)	75-125	0	20	31,600	31,100	1	20
Lithium	100	100	82-114	2	20	27.4	27.0	2	20
Magnesium	75 (2)	126 (2)	75-125	1	20	7,660	7,490	2	20
Manganese	59 (2)	43 (2)	75-125	2	20	322	341	6	20
Phosphorus	115	156*	75-125	10	20	227	255	12	20
Potassium	116	120	75-125	0	20	3,520	3,430	3	20
Sodium	96	95	75-125	3	20	116	113	2 (1)	20
Strontium	96	97	75-115	1	20	41.3	41.2	0	20
Tin	86	85	80-110	4	20	2.43 J	2.28 J	6 (1)	20
Zirconium	96	94	81-110	4	20	4.50 J	4.75 J	5 (1)	20
Batch number: 112915711005	Sample number(s): 6439920-6439925,6439928-6439930 UNSPK: 6439922 BKG: 6439922								
Mercury	107	109	65-135	4	20	0.0068 U	0.0067 U	0 (1)	20
Batch number: 113005708002	Sample number(s): 6439920-6439925,6439928-6439930 UNSPK: 6439922 BKG: 6439922								
Titanium	367 (2)	432 (2)	75-125	3	20	1,600	1,620	2	20
Batch number: 11292243201B	Sample number(s): 6439920-6439923,6439925,6439928-6439930 UNSPK: 6439922 BKG: 6439922								
3a Cr VI by EPA 7199	86		75-125			0.20 U	0.20 U	0 (1)	20
Batch number: 11293102201B	Sample number(s): 6439920 UNSPK: P437195 BKG: P437195								
16a Cyanide by 9012B	99		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11293621202A	Sample number(s): 6439920-6439923,6439925,6439928-6439930 UNSPK: 6439922 BKG: 6439922								
7a Perchlorate EPA 314.0	108		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11299621201B	Sample number(s): 6439920-6439923,6439925,6439928-6439930 UNSPK: 6439922 BKG:								

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271741
Reported: 11/04/11 at 09:54 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
	6439922								
11a Anions by 300.0 - Fluoride	62*		80-120			4.3	4.4	1 (1)	20
Batch number: 11300039402A	Sample number(s): 6439920-6439922,6439925,6439928-6439930 BKG: 6439922								
17a pH by 9045C						8.26	8.27	0	3
Batch number: 11298162402B	Sample number(s): 6439920-6439926,6439928-6439930,6439933 BKG: 6439922								
28a Moisture Content by 160.3						12.2	12.5	2	20
Moisture Content by 160.3						12.2	12.5	2	20
Moisture Content by 160.3						12.2	12.5	2	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11291SLD026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6439920	92	95	86	92	90	86
6439921	84	88	74	82	80	83
6439922	86	90	81	86	85	81
6439923	91	94	89	89	90	82
6439924	91	95	86	89	89	83
6439928	89	93	76	86	89	85
6439929	86	91	74	86	85	84
6439930	91	94	79	89	88	87
Blank	88	93	84	88	88	84
LCS	89	93	86	88	90	83
MS	91	94	89	89	90	82
MSD	91	95	86	89	89	83
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 21a NDMA by 1625C
Batch number: 11291SLG026

	N-Nitrosodimethylamine-d6
6439933	114
Blank	124
LCS	120
MS	94
MSD	77
Limits:	50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11292SLE026

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271741
Reported: 11/04/11 at 09:54 AM

Surrogate Quality Control

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6439920	100	84	89
6439921	96	80	91
6439922	90	75	85
6439923	101	77	84
6439924	97	81	82
6439928	93	78	86
6439929	96	79	91
6439930	97	80	89
Blank	94	83	90
LCS	101	84	88
MS	101	77	84
MSD	97	81	82
Limits:	40-130	45-130	45-135

Analysis Name: 21b. NDMA in Water
Batch number: 11292WAA026

	N-Nitrosodimethylamine-d6
6439931	144
6439932	107
Blank	117
LCS	120
LCSD	114
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11293A16A

	Trifluorotoluene-F
6439920	88
Blank	92
LCS	93
MS	90
MSD	76
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11294B20A

	Trifluorotoluene-F
6439934	87
Blank	86
LCS	117
LCSD	113
Limits:	63-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112920031A

	Tetrachloro-m-xylene	Decachlorobiphenyl

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271741
Reported: 11/04/11 at 09:54 AM

Surrogate Quality Control

6439920	91	98
6439921	84	97
6439922	78	88
6439923	90	97
6439924	86	91
6439926	88	95
6439927	93	102
6439928	87	96
6439929	88	93
6439930	91	102
Blank	86	94
LCS	94	102
LCSD	94	106
MS	90	97
MSD	86	91
Limits:	53-139	45-120

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112920027A

	Chlorobenzene	Orthoterphenyl
6439920	80	87
Blank	82	88
LCS	88	92
MS	77	86
MSD	80	90
Limits:	37-125	47-145

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112920028A

	n-Triacontane-d62
6439920	86
Blank	80
LCS	79
MS	79
MSD	79
Limits:	19-152

Analysis Name: 18a Alcohols by 8015B
Batch number: 112920034A

	Acetone
6439920	81
Blank	86
LCS	89
MS	80
MSD	78
Limits:	42-138

Analysis Name: 19a Glycols by 8015B
Batch number: 112930029A

	Tetramethylene glycol

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271741
Reported: 11/04/11 at 09:54 AM

Surrogate Quality Control

6439920	88
Blank	98
LCS	98
MS	92
MSD	90
Limits:	29-137

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

13013 1271741 6439920-34

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subareas 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dimethal EPA 8270	Other Instructions and Notes
SL-139-SA7-SB-2.5	10.17.11	1203	SOIL	NONE	2-Encores										X											
SL-139-SA7-SB-2.0-3.0	10.17.11	1205	SOIL	NONE	1-SS Sleeve			X	X																	
SL-139-SA7-SB-2.0-3.0	10.17.11	1223	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X					X	X	X	X		
SL-033-SA5DS-SB-2.0-3.0	10.17.11	1158	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-034-SA5DS-SB-4.0-5.0MS	10.17.11	1053	SOIL	NONE	6-16 oz Jars	X	X	X	X	X	X	X	X													MS/MSD
SL-034-SA5DS-SB-9.0-10.0	10.17.11	0958	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-039-SA5DS-SB-3.0-4.0	10.17.11	1435	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X	X												
DUP03-SA5DS-QC-101711	10.17.11	1044	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
EB-SA5DS-SB-101711	10.17.11	1430	WATER	NONE	1-1 L Amber														X							HGL ASTM II WATER-DI Blank
TB-101711	10.17.11	0800	WATER	NONE	1-1 L Amber														X							
TB-101711	10.17.11	0800	SOIL	NONE	1-4 oz Jar														X							
TB-101711	10.17.11	0800	WATER	NONE	2-40 mL Vials										X											

Relinquished by: (Signature) — Date/Time: 10/17/2011 / 1630

Received for Laboratory by: (Signature) — 10/18/11 0725

Received by: (Signature) — Date/Time — Airbill No.(s)

Laboratory:

Lancaster Laboratories, Inc.

Nicole Maljovec

From: Bloisa, Peggy [BloisaMJ@cdm.com]
Sent: Thursday, October 27, 2011 11:56 AM
To: Nicole Maljovec
Cc: Hartman, Pamela
Subject: Sample SL-139-SA7-SB-2.0-3.0
Attachments: COC_10_17_11 revised.xlsx

Hi Nicole – the above referenced sample collected on 10/17/11 had two different collection times for the sleeve and the jars. Please use the earlier time (1205) for both containers.

See attached revised COC.

Thanks, Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|

Please consider the environment before printing this email.

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers
Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	*Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terpheriyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015M	**Dowonal EPA 8270	Other Instructions and Notes
SL-139-SA7-SB-2.5	10.17.11	1203	SOIL	NONE	2-Encores										X										
SL-139-SA7-SB-2.0-3.0	10.17.11	1205	SOIL	NONE	1-SS Sleeve			X	X																
SL-139-SA7-SB-2.0-3.0	10.17.11	1205	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X					X	X	X	X	
SL-033-SA5DS-SB-2.0-3.0	10.17.11	1158	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X												
SL-034-SA5DS-SB-4.0-5.0MS	10.17.11	1053	SOIL	NONE	6-16 oz Jars	X	X	X	X	X	X	X	X												MS/MSD
SL-034-SA5DS-SB-9.0-10.0	10.17.11	0958	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X												
SL-039-SA5DS-SB-3.0-4.0	10.17.11	1435	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X	X											
DUP03-SA5DS-QC-101711	10.17.11	1044	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X												
EB-SA5DS-SB-101711	10.17.11	1430	WATER	NONE	1-1 L Amber														X						HGL ASTM II WATER-DPT crew
TB-101711	10.17.11	0800	WATER	NONE	1-1 L Amber														X						
TB-101711	10.17.11	0800	SOIL	NONE	1-4 oz Jar														X						
TB-101711	10.17.11	0800	WATER	NONE	2-40 mL Vials										X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/17/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8767 9858 6828 6770	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 04, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/18/2011
Group Number: 1271745
SDG: DX151
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-139-SA7-SB-2.0-3.0 Soil	6439943
SL-033-SA5DS-SB-2.0-3.0 Soil	6439944
SL-034-SA5DS-SB-4.0-5.0 Soil	6439945
SL-034-SA5DS-SB-4.0-5.0MS Soil	6439946
SL-034-SA5DS-SB-4.0-5.0MSD Soil	6439947
SL-034-SA5DS-SB-9.0-10.0 Soil	6439948
SL-039-SA5DS-SB-3.0-4.0 Soil	6439949
DUP03-SA5DS-QC-101711 Soil	6439950

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-139-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA7-SB-2.0-3.0

LLI Sample # SW 6439943
LLI Group # 1271745
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 12:05

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 00:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD139 SDG#: DX151-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-139-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA7-SB-2.0-3.0

LLI Sample # SW 6439943
LLI Group # 1271745
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 12:05

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 00:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD139 SDG#: DX151-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0287	U	0.0287	1.04	1
11031	12378-PeCDD	40321-76-4	0.0962	JQ	0.0287	5.21	1
11031	123478-HxCDD	39227-28-6	0.0374	U	0.0374	5.21	1
11031	123678-HxCDD	57653-85-7	0.282	J	0.0364	5.21	1
11031	123789-HxCDD	19408-74-3	0.191	JBQ	0.0375	5.21	1
11031	1234678-HpCDD	35822-46-9	6.33	B	0.0508	5.21	1
11031	OCDD	3268-87-9	76.5	B	0.0371	10.4	1
11031	2378-TCDF	51207-31-9	0.0624	JQ	0.0368	1.04	1
11031	12378-PeCDF	57117-41-6	0.106	JB	0.0259	5.21	1
11031	23478-PeCDF	57117-31-4	0.177	JBQ	0.0254	5.21	1
11031	123478-HxCDF	70648-26-9	0.473	JB	0.0343	5.21	1
11031	123678-HxCDF	57117-44-9	0.0907	JBQ	0.0292	5.21	1
11031	123789-HxCDF	72918-21-9	0.0734	JBQ	0.0343	5.21	1
11031	234678-HxCDF	60851-34-5	0.116	JB	0.0319	5.21	1
11031	1234678-HpCDF	67562-39-4	1.10	JB	0.0158	5.21	1
11031	1234789-HpCDF	55673-89-7	0.126	JB	0.0250	5.21	1
11031	OCDF	39001-02-0	2.82	JB	0.0345	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	94	23 - 140
13C12-OCDD	95	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	100	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	72	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-139-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA7-SB-2.0-3.0

LLI Sample # SW 6439943
LLI Group # 1271745
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 12:05

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 00:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD139 SDG#: DX151-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-139-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-139-SA7-SB-2.0-3.0

LLI Sample # SW 6439943
LLI Group # 1271745
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 12:05

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 00:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD139 SDG#: DX151-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301001	10/30/2011 14:17	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301001	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402B	10/25/2011 18:30	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-033-SA5DS-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DS-SB-2.0-3.0

LLI Sample # SW 6439944
LLI Group # 1271745
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 11:58

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 00:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD033 SDG#: DX151-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-033-SA5DS-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DS-SB-2.0-3.0

LLI Sample # SW 6439944
LLI Group # 1271745
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 11:58

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 00:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD033 SDG#: DX151-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0307	U	0.0307	1.14	1
11031	12378-PeCDD	40321-76-4	0.0393	JQ	0.0274	5.70	1
11031	123478-HxCDD	39227-28-6	0.0241	JQ	0.0176	5.70	1
11031	123678-HxCDD	57653-85-7	0.0230	JQ	0.0171	5.70	1
11031	123789-HxCDD	19408-74-3	0.0598	JBQ	0.0174	5.70	1
11031	1234678-HpCDD	35822-46-9	0.233	JB	0.0241	5.70	1
11031	OCDD	3268-87-9	0.626	JB	0.0318	11.4	1
11031	2378-TCDF	51207-31-9	0.0244	U	0.0244	1.14	1
11031	12378-PeCDF	57117-41-6	0.0268	JBQ	0.0168	5.70	1
11031	23478-PeCDF	57117-31-4	0.0522	JB	0.0159	5.70	1
11031	123478-HxCDF	70648-26-9	0.0449	JBQ	0.0137	5.70	1
11031	123678-HxCDF	57117-44-9	0.0196	JB	0.0115	5.70	1
11031	123789-HxCDF	72918-21-9	0.0926	JB	0.0137	5.70	1
11031	234678-HxCDF	60851-34-5	0.0437	JB	0.0122	5.70	1
11031	1234678-HpCDF	67562-39-4	0.120	JB	0.0113	5.70	1
11031	1234789-HpCDF	55673-89-7	0.0505	JB	0.0171	5.70	1
11031	OCDF	39001-02-0	0.225	JBQ	0.0340	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	58	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-033-SA5DS-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DS-SB-2.0-3.0

LLI Sample # SW 6439944
LLI Group # 1271745
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 11:58

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 00:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD033 SDG#: DX151-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-033-SA5DS-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA5DS-SB-2.0-3.0

LLI Sample # SW 6439944
LLI Group # 1271745
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 11:58

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 00:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD033 SDG#: DX151-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301001	10/30/2011 15:14	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301001	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402B	10/25/2011 18:30	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-034-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-4.0-5.0

LLI Sample # SW 6439945
LLI Group # 1271745
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:53

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 00:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD034 SDG#: DX151-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-034-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-4.0-5.0

LLI Sample # SW 6439945
LLI Group # 1271745
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:53

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 00:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD034 SDG#: DX151-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0349	U	0.0349	1.10	1
11031	12378-PeCDD	40321-76-4	0.0273	U	0.0273	5.49	1
11031	123478-HxCDD	39227-28-6	0.0183	U	0.0183	5.49	1
11031	123678-HxCDD	57653-85-7	0.0442	JQ	0.0191	5.49	1
11031	123789-HxCDD	19408-74-3	0.0445	JBQ	0.0172	5.49	1
11031	1234678-HpCDD	35822-46-9	0.233	JBQ	0.0260	5.49	1
11031	OCDD	3268-87-9	0.630	JBQ	0.0353	11.0	1
11031	2378-TCDF	51207-31-9	0.0289	U	0.0289	1.10	1
11031	12378-PeCDF	57117-41-6	0.0286	JBQ	0.0161	5.49	1
11031	23478-PeCDF	57117-31-4	0.0434	JBQ	0.0158	5.49	1
11031	123478-HxCDF	70648-26-9	0.0416	JBQ	0.0187	5.49	1
11031	123678-HxCDF	57117-44-9	0.0281	JB	0.0148	5.49	1
11031	123789-HxCDF	72918-21-9	0.107	JBQ	0.0161	5.49	1
11031	234678-HxCDF	60851-34-5	0.0515	JBQ	0.0139	5.49	1
11031	1234678-HpCDF	67562-39-4	0.142	JB	0.0108	5.49	1
11031	1234789-HpCDF	55673-89-7	0.0155	U	0.0155	5.49	1
11031	OCDF	39001-02-0	0.174	JBQ	0.0374	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	62	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-034-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-4.0-5.0

LLI Sample # SW 6439945
LLI Group # 1271745
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:53

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 00:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD034 SDG#: DX151-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-034-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-4.0-5.0

LLI Sample # SW 6439945
LLI Group # 1271745
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:53

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 00:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD034 SDG#: DX151-03BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301001	10/30/2011 16:11	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301001	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402B	10/25/2011 18:30	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-034-SA5DS-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-4.0-5.0MS

LLI Sample # SW 6439946
LLI Group # 1271745
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:53

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 00:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD034 SDG#: DX151-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-034-SA5DS-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-4.0-5.0MS

LLI Sample # SW 6439946
LLI Group # 1271745
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:53

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 00:39

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

SD034 SDG#: DX151-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	23.0		0.0691	1.14	1
11031	12378-PeCDD	40321-76-4	109		0.0555	5.69	1
11031	123478-HxCDD	39227-28-6	101		0.0562	5.69	1
11031	123678-HxCDD	57653-85-7	105		0.0603	5.69	1
11031	123789-HxCDD	19408-74-3	114	B	0.0558	5.69	1
11031	1234678-HpCDD	35822-46-9	111	B	0.0688	5.69	1
11031	OCDD	3268-87-9	220	B	0.0566	11.4	1
11031	2378-TCDF	51207-31-9	21.8		0.0858	1.14	1
11031	12378-PeCDF	57117-41-6	108	B	0.0532	5.69	1
11031	23478-PeCDF	57117-31-4	105	B	0.0576	5.69	1
11031	123478-HxCDF	70648-26-9	111	B	0.0936	5.69	1
11031	123678-HxCDF	57117-44-9	107	B	0.0780	5.69	1
11031	123789-HxCDF	72918-21-9	116	B	0.0917	5.69	1
11031	234678-HxCDF	60851-34-5	111	B	0.0794	5.69	1
11031	1234678-HpCDF	67562-39-4	99.5	B	0.0434	5.69	1
11031	1234789-HpCDF	55673-89-7	109	B	0.0680	5.69	1
11031	OCDF	39001-02-0	217	B	0.0691	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	64	28 - 130
13C12-123789-HxCDD	68	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	56	24 - 169
13C12-12378-PeCDF	62	24 - 185
13C12-23478-PeCDF	56	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	59	26 - 123
13C12-234678-HxCDF	56	28 - 136
13C12-123789-HxCDF	55	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	55	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-034-SA5DS-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-4.0-5.0MS

LLI Sample # SW 6439946
LLI Group # 1271745
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:53

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 00:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD034 SDG#: DX151-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-034-SA5DS-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-4.0-5.0MS

LLI Sample # SW 6439946
LLI Group # 1271745
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:53

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 00:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD034 SDG#: DX151-03MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301001	10/30/2011 17:07	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301001	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402B	10/25/2011 18:30	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-034-SA5DS-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-4.0-5.0MSD

LLI Sample # SW 6439947
LLI Group # 1271745
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:53

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 00:39

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

SD034 SDG#: DX151-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-034-SA5DS-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-4.0-5.0MSD

LLI Sample # SW 6439947
LLI Group # 1271745
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:53

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 00:39

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

SD034 SDG#: DX151-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.7		0.0399	1.14	1
11031	12378-PeCDD	40321-76-4	115		0.0402	5.69	1
11031	123478-HxCDD	39227-28-6	114		0.0395	5.69	1
11031	123678-HxCDD	57653-85-7	106		0.0383	5.69	1
11031	123789-HxCDD	19408-74-3	116	B	0.0372	5.69	1
11031	1234678-HpCDD	35822-46-9	114	B	0.0540	5.69	1
11031	OCDD	3268-87-9	224	B	0.0424	11.4	1
11031	2378-TCDF	51207-31-9	22.6		0.0469	1.14	1
11031	12378-PeCDF	57117-41-6	111	B	0.0331	5.69	1
11031	23478-PeCDF	57117-31-4	105	B	0.0314	5.69	1
11031	123478-HxCDF	70648-26-9	113	B	0.0565	5.69	1
11031	123678-HxCDF	57117-44-9	113	B	0.0503	5.69	1
11031	123789-HxCDF	72918-21-9	113	B	0.0527	5.69	1
11031	234678-HxCDF	60851-34-5	116	B	0.0528	5.69	1
11031	1234678-HpCDF	67562-39-4	105	B	0.0399	5.69	1
11031	1234789-HpCDF	55673-89-7	112	B	0.0550	5.69	1
11031	OCDF	39001-02-0	231	B	0.0465	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	66	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	66	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	56	24 - 169
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	60	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-034-SA5DS-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-4.0-5.0MSD

LLI Sample # SW 6439947
LLI Group # 1271745
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:53

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 00:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD034 SDG#: DX151-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-034-SA5DS-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-4.0-5.0MSD

LLI Sample # SW 6439947
LLI Group # 1271745
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:53

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 00:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD034 SDG#: DX151-03MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301001	10/30/2011 18:04	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301001	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402B	10/25/2011 18:30	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-034-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-9.0-10.0

LLI Sample # SW 6439948
LLI Group # 1271745
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 09:58

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 00:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD349 SDG#: DX151-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-034-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-9.0-10.0

LLI Sample # SW 6439948
LLI Group # 1271745
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 09:58

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 00:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD349 SDG#: DX151-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0249	U	0.0249	1.11	1
11031	12378-PeCDD	40321-76-4	0.0265	JQ	0.0232	5.55	1
11031	123478-HxCDD	39227-28-6	0.0187	U	0.0187	5.55	1
11031	123678-HxCDD	57653-85-7	0.0328	JQ	0.0190	5.55	1
11031	123789-HxCDD	19408-74-3	0.0563	JB	0.0175	5.55	1
11031	1234678-HpCDD	35822-46-9	0.249	JBQ	0.0249	5.55	1
11031	OCDD	3268-87-9	0.511	JB	0.0311	11.1	1
11031	2378-TCDF	51207-31-9	0.0235	U	0.0235	1.11	1
11031	12378-PeCDF	57117-41-6	0.0323	JB	0.0141	5.55	1
11031	23478-PeCDF	57117-31-4	0.0446	JBQ	0.0149	5.55	1
11031	123478-HxCDF	70648-26-9	0.0514	JBQ	0.0162	5.55	1
11031	123678-HxCDF	57117-44-9	0.0409	JBQ	0.0136	5.55	1
11031	123789-HxCDF	72918-21-9	0.0594	JB	0.0144	5.55	1
11031	234678-HxCDF	60851-34-5	0.0419	JBQ	0.0126	5.55	1
11031	1234678-HpCDF	67562-39-4	0.106	JB	0.0107	5.55	1
11031	1234789-HpCDF	55673-89-7	0.0526	JB	0.0155	5.55	1
11031	OCDF	39001-02-0	0.174	JBQ	0.0323	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	70	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	68	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-034-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-9.0-10.0

LLI Sample # SW 6439948
LLI Group # 1271745
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 09:58

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 00:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD349 SDG#: DX151-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-034-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-034-SA5DS-SB-9.0-10.0

LLI Sample # SW 6439948
LLI Group # 1271745
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 09:58

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 00:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD349 SDG#: DX151-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301001	10/30/2011 19:01	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301001	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402B	10/25/2011 18:30	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-039-SA5DS-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DS-SB-3.0-4.0

LLI Sample # SW 6439949
LLI Group # 1271745
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 14:35

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 00:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD039 SDG#: DX151-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-039-SA5DS-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DS-SB-3.0-4.0

LLI Sample # SW 6439949
LLI Group # 1271745
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 14:35

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 00:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD039 SDG#: DX151-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0260	U	0.0260	1.08	1
11031	12378-PeCDD	40321-76-4	0.0475	JQ	0.0257	5.42	1
11031	123478-HxCDD	39227-28-6	0.0298	J	0.0181	5.42	1
11031	123678-HxCDD	57653-85-7	0.0385	JQ	0.0199	5.42	1
11031	123789-HxCDD	19408-74-3	0.0325	JB	0.0178	5.42	1
11031	1234678-HpCDD	35822-46-9	0.247	JBQ	0.0257	5.42	1
11031	OCDD	3268-87-9	0.558	JB	0.0309	10.8	1
11031	2378-TCDF	51207-31-9	0.0208	U	0.0208	1.08	1
11031	12378-PeCDF	57117-41-6	0.0388	JBQ	0.0151	5.42	1
11031	23478-PeCDF	57117-31-4	0.0741	JB	0.0142	5.42	1
11031	123478-HxCDF	70648-26-9	0.0451	JBQ	0.0146	5.42	1
11031	123678-HxCDF	57117-44-9	0.0565	JB	0.0125	5.42	1
11031	123789-HxCDF	72918-21-9	0.0455	JBQ	0.0120	5.42	1
11031	234678-HxCDF	60851-34-5	0.0576	JBQ	0.0114	5.42	1
11031	1234678-HpCDF	67562-39-4	0.155	JBQ	0.0111	5.42	1
11031	1234789-HpCDF	55673-89-7	0.0511	JBQ	0.0149	5.42	1
11031	OCDF	39001-02-0	0.165	JB	0.0242	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	67	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-039-SA5DS-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DS-SB-3.0-4.0

LLI Sample # SW 6439949
LLI Group # 1271745
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 14:35

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 00:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD039 SDG#: DX151-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-039-SA5DS-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-039-SA5DS-SB-3.0-4.0

LLI Sample # SW 6439949
LLI Group # 1271745
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 14:35

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 00:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD039 SDG#: DX151-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301001	10/30/2011 19:57	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301001	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402B	10/25/2011 18:30	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP03-SA5DS-QC-101711 Soil**
SSFL Area IV Collocated Soil Sampling
DUP03-SA5DS-QC-101711

LLI Sample # SW 6439950
LLI Group # 1271745
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:44

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 00:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP03 SDG#: DX151-06FD*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP03-SA5DS-QC-101711 Soil**
SSFL Area IV Collocated Soil Sampling
DUP03-SA5DS-QC-101711

LLI Sample # SW 6439950
LLI Group # 1271745
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:44

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 00:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP03 SDG#: DX151-06FD*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0345	JQ	0.0259	1.13	1
11031	12378-PeCDD	40321-76-4	0.128	JQ	0.0266	5.63	1
11031	123478-HxCDD	39227-28-6	0.0475	JQ	0.0196	5.63	1
11031	123678-HxCDD	57653-85-7	0.0734	JQ	0.0196	5.63	1
11031	123789-HxCDD	19408-74-3	0.111	JBQ	0.0194	5.63	1
11031	1234678-HpCDD	35822-46-9	0.254	JBQ	0.0253	5.63	1
11031	OCDD	3268-87-9	0.413	JB	0.0313	11.3	1
11031	2378-TCDF	51207-31-9	0.0237	U	0.0237	1.13	1
11031	12378-PeCDF	57117-41-6	0.190	JB	0.0157	5.63	1
11031	23478-PeCDF	57117-31-4	0.174	JB	0.0166	5.63	1
11031	123478-HxCDF	70648-26-9	0.135	JBQ	0.0228	5.63	1
11031	123678-HxCDF	57117-44-9	0.108	JB	0.0170	5.63	1
11031	123789-HxCDF	72918-21-9	0.143	JBQ	0.0163	5.63	1
11031	234678-HxCDF	60851-34-5	0.0900	JBQ	0.0157	5.63	1
11031	1234678-HpCDF	67562-39-4	0.126	JB	0.0119	5.63	1
11031	1234789-HpCDF	55673-89-7	0.0575	JB	0.0151	5.63	1
11031	OCDF	39001-02-0	0.187	JBQ	0.0318	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	92	28 - 130
13C12-123789-HxCDD	92	28 - 130
13C12-1234678-HpCDD	99	23 - 140
13C12-OCDD	99	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	77	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP03-SA5DS-QC-101711 Soil**
SSFL Area IV Collocated Soil Sampling
DUP03-SA5DS-QC-101711

LLI Sample # SW 6439950
LLI Group # 1271745
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:44

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 00:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP03 SDG#: DX151-06FD*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP03-SA5DS-QC-101711 Soil**
SSFL Area IV Collocated Soil Sampling
DUP03-SA5DS-QC-101711

LLI Sample # SW 6439950
LLI Group # 1271745
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/17/2011 10:44

Submitted: 10/18/2011 09:25
Reported: 11/04/2011 00:39

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DDP03 SDG#: DX151-06FD*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301001	10/30/2011 20:54	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301001	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162402B	10/25/2011 18:30	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271745
Reported: 11/04/11 at 12:39 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11298162402B	Sample number(s): 6439943-6439950								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11301001	Sample number(s): 6439943-6439950								
2378-TCDD	0.0315 U	0.0315	1.00	ng/kg	96		67-158		
12378-PeCDD	0.0271 U	0.0271	5.00	ng/kg	96		70-142		
123478-HxCDD	0.0160 U	0.0160	5.00	ng/kg	91		70-164		
123678-HxCDD	0.0156 U	0.0156	5.00	ng/kg	88		76-134		
123789-HxCDD	0.0409 J	0.0163	5.00	ng/kg	95		64-162		
1234678-HpCDD	0.224 J	0.0203	5.00	ng/kg	97		70-140		
OCDD	0.412 J	0.0275	10.0	ng/kg	95		78-144		
2378-TCDF	0.0293 U	0.0293	1.00	ng/kg	93		75-158		
12378-PeCDF	0.0229 J	0.0162	5.00	ng/kg	94		80-134		
23478-PeCDF	0.0728 J	0.0166	5.00	ng/kg	92		68-160		
123478-HxCDF	0.0465 J	0.0153	5.00	ng/kg	98		72-134		
123678-HxCDF	0.0250 J	0.0127	5.00	ng/kg	95		84-130		
123789-HxCDF	0.0278 J	0.0136	5.00	ng/kg	98		78-130		
234678-HxCDF	0.0347 J	0.0128	5.00	ng/kg	96		70-156		
1234678-HpCDF	0.159 J	0.0111	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.0467 J	0.0180	5.00	ng/kg	92		78-138		
OCDF	0.202 J	0.0313	10.0	ng/kg	96		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11298162402B	Sample number(s): 6439943-6439950 BKG: P439922								
Moisture Content by 160.3						12.2	12.5	2	20
Batch number: 11301001	Sample number(s): 6439943-6439950 UNSPK: 6439945								
2378-TCDD	101	99	67-158	1	25				
12378-PeCDD	96	101	70-142	5	25				
123478-HxCDD	89	100	70-164	12	25				
123678-HxCDD	92	93	76-134	1	25				
123789-HxCDD	100	101	64-162	2	25				
1234678-HpCDD	98	100	70-140	3	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271745
Reported: 11/04/11 at 12:39 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
OCDD	96	98	78-144	2	25				
2378-TCDF	96	99	75-158	4	25				
12378-PeCDF	95	98	80-134	3	25				
23478-PeCDF	92	92	68-160	1	25				
123478-HxCDF	97	99	72-134	2	25				
123678-HxCDF	94	99	84-130	5	25				
123789-HxCDF	102	99	78-130	3	25				
234678-HxCDF	97	102	70-156	4	25				
1234678-HpCDF	87	92	82-122	6	25				
1234789-HpCDF	96	99	78-138	3	25				
OCDF	95	101	63-170	6	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11301001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6439943	72	69	67	77	74	74
6439944	69	67	59	68	65	66
6439945	72	71	52	62	67	65
6439946	63	56	52	59	56	55
6439947	66	62	59	63	61	69
6439948	74	67	60	70	73	71
6439949	67	67	59	63	68	71
6439950	78	72	52	65	78	78
Blank	73	70	60	71	74	74
MS	63	56	52	59	56	55
MSD	66	62	59	63	61	69
OPR	70	67	63	71	72	78
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6439943	100	76	72	81	83	85
6439944	85	64	58	78	73	75
6439945	83	66	62	80	76	74
6439946	75	55	55	66	69	64
6439947	76	62	60	68	66	70
6439948	91	71	68	78	82	82
6439949	82	70	67	74	80	74
6439950	83	79	77	84	89	92
Blank	96	73	69	83	89	87
MS	75	55	55	66	69	64
MSD	76	62	60	68	66	70
OPR	92	77	72	77	81	80

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271745
Reported: 11/04/11 at 12:39 AM

Surrogate Quality Control

Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6439943	85	94	95	65	75	
6439944	75	84	80	59	71	
6439945	79	83	81	62	75	
6439946	68	71	71	56	62	
6439947	72	76	76	56	64	
6439948	85	88	88	64	74	
6439949	80	82	85	61	68	
6439950	92	99	99	70	79	
Blank	90	97	96	61	76	
MS	68	71	71	56	62	
MSD	72	76	76	56	64	
OPR	84	90	87	61	71	
Limits:	28-130	23-140	17-157	24-169	24-185	

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1271745 62439943-50

CHAIN OF CUSTODY RECORD

CDM — SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/7000B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dioxins/ EPA 8270	Other Instructions and Notes
SL-139-SA7-SB-2.5	10.17.11	1203	SOIL	NONE	2-Encores										X											
SL-139-SA7-SB-2.0-3.0	10.17.11	1205	SOIL	NONE	1-SS Sleeve			X	X																	
SL-139-SA7-SB-2.0-3.0	10.17.11	1223	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X					X	X	X	X		
SL-033-SA5DS-SB-2.0-3.0	10.17.11	1158	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-034-SA5DS-SB-4.0-5.0MS	10.17.11	1053	SOIL	NONE	6-16 oz Jars	X	X	X	X	X	X	X	X													MS/MSD
SL-034-SA5DS-SB-9.0-10.0	10.17.11	0958	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-039-SA5DS-SB-3.0-4.0	10.17.11	1435	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X	X												
DUP03-SA5DS-QC-101711	10.17.11	1044	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
EB-SA5DS-SB-101711	10.17.11	1430	WATER	NONE	1-1 L Amber														X							HGL ASTM II WATER-DPT crew
TB-101711	10.17.11	0800	WATER	NONE	1-1 L Amber														X							
TB-101711	10.17.11	0800	SOIL	NONE	1-4 oz Jar														X							
TB-101711	10.17.11	0800	WATER	NONE	2-40 mL Vials										X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	
	10/17/2011 / 1630		10/18/11 0925
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	

Laboratory:
Lancaster Laboratories, Inc.

Nicole Maljovec

From: Bloisa, Peggy [BloisaMJ@cdm.com]
Sent: Thursday, October 27, 2011 11:56 AM
To: Nicole Maljovec
Cc: Hartman, Pamela
Subject: Sample SL-139-SA7-SB-2.0-3.0
Attachments: COC_10_17_11 revised.xlsx

Hi Nicole – the above referenced sample collected on 10/17/11 had two different collection times for the sleeve and the jars. Please use the earlier time (1205) for both containers.

See attached revised COC.

Thanks, Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|

Please consider the environment before printing this email.

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers
Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs LPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Inorganics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-139-SA7-SB-2.5	10.17.11	1203	SOIL	NONE	2-Encores										X										
SL-139-SA7-SB-2.0-3.0	10.17.11	1205	SOIL	NONE	1-SS Sleeve			X	X																
SL-139-SA7-SB-2.0-3.0	10.17.11	1205	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X					X	X	X	X	
SL-033-SA5DS-SB-2.0-3.0	10.17.11	1158	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X												
SL-034-SA5DS-SB-4.0-5.0MS	10.17.11	1053	SOIL	NONE	6-16 oz Jars	X	X	X	X	X	X	X	X												MS/MSD
SL-034-SA5DS-SB-9.0-10.0	10.17.11	0958	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X												
SL-039-SA5DS-SB-3.0-4.0	10.17.11	1435	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X	X											
DUP03-SA5DS-QC-101711	10.17.11	1044	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X												
EB-SA5DS-SB-101711	10.17.11	1430	WATER	NONE	1-1 L Amber														X						HGL ASTM II WATER-DPT crew
TB-101711	10.17.11	0800	WATER	NONE	1-1 L Amber														X						
TB-101711	10.17.11	0800	SOIL	NONE	1-4 oz Jar														X						
TB-101711	10.17.11	0800	WATER	NONE	2-40 mL Vials										X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/17/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8767 9858 6828 6770	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 18, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/19/2011
Group Number: 1271993
SDG: DE271
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-013-SA5DS-SB-4.0-5.0 Soil	6441963
SL-015-SA5DS-SB-3.5-4.5 Soil	6441964
SL-020-SA7-SB-4.0-5.0 Soil	6441965
SL-020-SA7-SB-9.0-10.0 Soil	6441966
SL-140-SA7-SB-3.0-4.0 Soil	6441967
EB-SA7-SB-101811 Water	6441968
TB-101811 Water	6441969
TB-101811 Sand	6441970
TB-101811 Water	6441971
EB-SA5DS-SB-101811 Water	6441972

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-013-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DS-SB-4.0-5.0

LLI Sample # SW 6441963
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 09:10

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL013 SDG#: DE271-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	570		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,800		1
04688	Benzoic acid	65-85-0	1,200		190	570		1
04688	Benzyl alcohol	100-51-6	190	U	190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	190		1
04688	4-Chloroaniline	106-47-8	76	U	76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	570		1
04688	2,4-Dinitrophenol	51-28-5	380	U	380	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U	76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	570		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	38	U	38	190		1
04688	4-Methylphenol	106-44-5	38	U	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	38	U	38	190		1
04688	4-Nitroaniline	100-01-6	76	U	76	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	570		1
04688	Phenol	108-95-2	19	U	19	190		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-013-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DS-SB-4.0-5.0

LLI Sample # SW 6441963
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 09:10

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL013 SDG#: DE271-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U	38	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,300		6.53	21.6		1
07914	Boron	7440-42-8	0.388	U	0.388	5.39		1
01650	Calcium	7440-70-2	3,120		2.70	21.6		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-013-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DS-SB-4.0-5.0

LLI Sample # SW 6441963
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 09:10

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL013 SDG#: DE271-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	25,000		2.82	21.6		1
01656	Lithium	7439-93-2	23.2		0.67	2.2		1
01657	Magnesium	7439-95-4	5,430		0.475	10.8		1
06958	Manganese	7439-96-5	281		0.0388	0.539		1
10145	Phosphorus	7723-14-0	491		0.378	10.8		1
01662	Potassium	7440-09-7	1,790		12.2	53.9		1
01667	Sodium	7440-23-5	102	J	6.42	108		1
07968	Strontium	7440-24-6	25.4		0.0270	0.539		1
06969	Tin	7440-31-5	2.67	J	0.345	10.8		1
06970	Titanium	7440-32-6	1,090		0.0766	1.08		1
10146	Zirconium	7440-67-7	7.64		0.496	5.39		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.128	J	0.0806	0.218		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.34		0.0871	0.436		2
06126	Barium	7440-39-3	92.1		0.115	0.436		2
06127	Beryllium	7440-41-7	0.896		0.0174	0.109		2
06128	Cadmium	7440-43-9	0.143		0.0479	0.109		2
06131	Chromium	7440-47-3	45.8		0.131	0.436		2
06132	Cobalt	7440-48-4	9.22		0.0218	0.109		2
06133	Copper	7440-50-8	8.96		0.0871	0.436		2
06135	Lead	7439-92-1	7.64		0.0111	0.218		2
06138	Molybdenum	7439-98-7	0.585		0.0544	0.109		2
06139	Nickel	7440-02-0	16.7		0.109	0.436		2
06141	Selenium	7782-49-2	0.304	J	0.0632	0.436		2
06142	Silver	7440-22-4	0.0267	J	0.0155	0.109		2
06145	Thallium	7440-28-0	0.272		0.0327	0.109		2
06148	Vanadium	7440-62-2	78.1		0.0240	0.109		2
06149	Zinc	7440-66-6	60.0		0.610	3.27		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0078	U	0.0078	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.2		0.92	1.2		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2	U	10.2	34.0		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.52	J	0.23	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-013-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DS-SB-4.0-5.0

LLI Sample # SW 6441963
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 09:10

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL013 SDG#: DE271-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.67	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	11.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11293SLB026	10/23/2011 00:20	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11292SLE026	10/22/2011 16:17	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11292SLE026	10/20/2011 10:45	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11293SLB026	10/20/2011 16:45	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112920031A	10/23/2011 03:23	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112920031A	10/20/2011 06:50	Katheryne V Sponheimer	1
01643	Aluminum	SW-846 6010B	1	112935708007	10/26/2011 20:38	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112935708007	10/26/2011 20:38	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112935708007	10/26/2011 20:38	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112935708007	10/26/2011 20:38	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112935708007	10/26/2011 20:38	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112935708007	10/26/2011 20:38	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112935708007	10/26/2011 20:38	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112935708007	10/26/2011 20:38	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112935708007	10/26/2011 20:38	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112935708007	10/26/2011 20:38	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112935708007	10/26/2011 20:38	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112935708007	10/26/2011 20:38	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112935708007	10/28/2011 04:41	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112935708007	10/26/2011 20:38	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112931026004A	10/24/2011 14:28	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112931026004A	10/24/2011 14:28	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112931026004D	10/24/2011 14:28	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112931026004A	10/24/2011 14:28	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112931026004A	10/24/2011 14:28	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
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Analysis Report

Sample Description: SL-013-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DS-SB-4.0-5.0

LLI Sample # SW 6441963
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 09:10

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL013 SDG#: DE271-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112931026004A	10/24/2011 14:28	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112931026004A	10/24/2011 14:28	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112931026004A	10/24/2011 14:28	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112931026004A	10/24/2011 14:28	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112931026004C	10/24/2011 14:28	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112931026004A	10/24/2011 14:28	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112931026004B	10/24/2011 14:28	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112931026004A	10/24/2011 14:28	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112931026004A	10/24/2011 14:28	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112931026004A	10/24/2011 14:28	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112931026004A	10/24/2011 14:28	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112935711007	10/24/2011 17:39	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112935708007	10/21/2011 09:42	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112931026004	10/21/2011 09:42	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112935711007	10/21/2011 11:37	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11300621201A	10/28/2011 09:37	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11293621202B	10/24/2011 15:17	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11298243201A	10/26/2011 13:36	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11300621201A	10/27/2011 06:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621202B	10/20/2011 07:10	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039402A	10/27/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11298243201A	10/25/2011 09:10	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

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Analysis Report

Sample Description: SL-015-SA5DS-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DS-SB-3.5-4.5

LLI Sample # SW 6441964
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 10:20

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL015 SDG#: DE271-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	390	J	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-015-SA5DS-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DS-SB-3.5-4.5

LLI Sample # SW 6441964
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 10:20

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL015 SDG#: DE271-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,800		6.37	21.1		1
07914	Boron	7440-42-8	0.379	U	0.379	5.27		1
01650	Calcium	7440-70-2	3,190		2.63	21.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-015-SA5DS-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DS-SB-3.5-4.5

LLI Sample # SW 6441964
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 10:20

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL015 SDG#: DE271-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	23,800		2.75	21.1		1
01656	Lithium	7439-93-2	20.4		0.65	2.1		1
01657	Magnesium	7439-95-4	5,530		0.464	10.5		1
06958	Manganese	7439-96-5	239		0.0379	0.527		1
10145	Phosphorus	7723-14-0	550		0.369	10.5		1
01662	Potassium	7440-09-7	2,080		11.9	52.7		1
01667	Sodium	7440-23-5	109		6.27	105		1
07968	Strontium	7440-24-6	25.6		0.0263	0.527		1
06969	Tin	7440-31-5	2.54	J	0.337	10.5		1
06970	Titanium	7440-32-6	1,040		0.0748	1.05		1
10146	Zirconium	7440-67-7	6.73		0.485	5.27		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.150	J	0.0803	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.91		0.0868	0.434		2
06126	Barium	7440-39-3	90.8		0.115	0.434		2
06127	Beryllium	7440-41-7	0.774		0.0174	0.108		2
06128	Cadmium	7440-43-9	0.151		0.0477	0.108		2
06131	Chromium	7440-47-3	41.8		0.130	0.434		2
06132	Cobalt	7440-48-4	9.72		0.0217	0.108		2
06133	Copper	7440-50-8	8.23		0.0868	0.434		2
06135	Lead	7439-92-1	7.22		0.0111	0.217		2
06138	Molybdenum	7439-98-7	0.498		0.0542	0.108		2
06139	Nickel	7440-02-0	14.6		0.108	0.434		2
06141	Selenium	7782-49-2	0.303	J	0.0629	0.434		2
06142	Silver	7440-22-4	0.0200	J	0.0154	0.108		2
06145	Thallium	7440-28-0	0.226		0.0325	0.108		2
06148	Vanadium	7440-62-2	72.2		0.0239	0.108		2
06149	Zinc	7440-66-6	60.2		0.607	3.25		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076	U	0.0076	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10	U	10	33.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	2.1		0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-015-SA5DS-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DS-SB-3.5-4.5

LLI Sample # SW 6441964
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 10:20

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL015 SDG#: DE271-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.76	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.6	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11293SLB026	10/23/2011 01:36	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11292SLE026	10/22/2011 16:51	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11292SLE026	10/20/2011 10:45	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11293SLB026	10/20/2011 16:45	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112920031A	10/23/2011 03:42	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112920031A	10/20/2011 06:50	Katheryne V Sponheimer	1
01643	Aluminum	SW-846 6010B	1	112935708007	10/26/2011 21:02	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112935708007	10/26/2011 21:02	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112935708007	10/26/2011 21:02	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112935708007	10/26/2011 21:02	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112935708007	10/26/2011 21:02	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112935708007	10/26/2011 21:02	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112935708007	10/26/2011 21:02	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112935708007	10/26/2011 21:02	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112935708007	10/26/2011 21:02	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112935708007	10/26/2011 21:02	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112935708007	10/26/2011 21:02	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112935708007	10/26/2011 21:02	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112935708007	10/28/2011 05:04	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112935708007	10/26/2011 21:02	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112931026004A	10/24/2011 14:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112931026004A	10/24/2011 14:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112931026004D	10/24/2011 14:31	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112931026004A	10/24/2011 14:31	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112931026004A	10/24/2011 14:31	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-015-SA5DS-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DS-SB-3.5-4.5

LLI Sample # SW 6441964
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 10:20

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL015 SDG#: DE271-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112931026004A	10/24/2011 14:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112931026004A	10/24/2011 14:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112931026004A	10/24/2011 14:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112931026004A	10/24/2011 14:31	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112931026004C	10/24/2011 14:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112931026004A	10/24/2011 14:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112931026004B	10/24/2011 14:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112931026004A	10/24/2011 14:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112931026004A	10/24/2011 14:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112931026004A	10/24/2011 14:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112931026004A	10/24/2011 14:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112935711007	10/24/2011 17:40	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112935708007	10/21/2011 09:42	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112931026004	10/21/2011 09:42	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112935711007	10/21/2011 11:37	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11300621201A	10/28/2011 10:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11293621202B	10/24/2011 16:49	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11298243201A	10/26/2011 14:43	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11300621201A	10/27/2011 06:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621202B	10/20/2011 07:10	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039402A	10/27/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11298243201A	10/25/2011 09:10	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-020-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA7-SB-4.0-5.0

LLI Sample # SW 6441965
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 12:23

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL204 SDG#: DE271-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	J	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1

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Sample Description: **SL-020-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA7-SB-4.0-5.0

LLI Sample # SW 6441965
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 12:23

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL204 SDG#: DE271-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	J	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.39	J	0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.9	J	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		24.27
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-020-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA7-SB-4.0-5.0

LLI Sample # SW 6441965
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 12:23

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL204 SDG#: DE271-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	1.6	J	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.4	U	5.4	11		1
08283	Ethylene glycol	107-21-1	5.4	U	5.4	11		1
08283	Propylene glycol	57-55-6	5.4	U	5.4	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	4.4		0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	8.1		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,900		6.39	21.1		1
07914	Boron	7440-42-8	0.380	U	0.380	5.28		1
01650	Calcium	7440-70-2	2,540		2.64	21.1		1
01654	Iron	7439-89-6	20,300		2.76	21.1		1
01656	Lithium	7439-93-2	23.1		0.66	2.1		1
01657	Magnesium	7439-95-4	4,560		0.465	10.6		1
06958	Manganese	7439-96-5	204		0.0380	0.528		1
10145	Phosphorus	7723-14-0	221		0.370	10.6		1
01662	Potassium	7440-09-7	1,810		11.9	52.8		1
01667	Sodium	7440-23-5	129		6.29	106		1
07968	Strontium	7440-24-6	17.5		0.0264	0.528		1
06969	Tin	7440-31-5	2.63	J	0.338	10.6		1
06970	Titanium	7440-32-6	1,090		0.0750	1.06		1
10146	Zirconium	7440-67-7	0.913	J	0.486	5.28		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-020-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA7-SB-4.0-5.0

LLI Sample # SW 6441965
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 12:23

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL204 SDG#: DE271-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0932 J	0.0782	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.80	0.0845	0.423		2
06126	Barium	7440-39-3	77.4	0.112	0.423		2
06127	Beryllium	7440-41-7	0.654	0.0169	0.106		2
06128	Cadmium	7440-43-9	0.0809 J	0.0465	0.106		2
06131	Chromium	7440-47-3	20.1	0.127	0.423		2
06132	Cobalt	7440-48-4	5.59	0.0211	0.106		2
06133	Copper	7440-50-8	7.09	0.0845	0.423		2
06135	Lead	7439-92-1	6.15	0.0108	0.211		2
06138	Molybdenum	7439-98-7	0.487	0.0528	0.106		2
06139	Nickel	7440-02-0	10.7	0.106	0.423		2
06141	Selenium	7782-49-2	0.144 J	0.0613	0.423		2
06142	Silver	7440-22-4	0.0314 J	0.0150	0.106		2
06145	Thallium	7440-28-0	0.306	0.0317	0.106		2
06148	Vanadium	7440-62-2	39.0	0.0232	0.106		2
06149	Zinc	7440-66-6	54.1	0.592	3.17		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0074 U	0.0074	0.105		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.4	0.86	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7 U	9.7	32.3		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.44 J	0.22	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.54		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.72	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.2	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-020-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA7-SB-4.0-5.0

LLI Sample # SW 6441965
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 12:23

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL204 SDG#: DE271-03

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-020-SA7-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11293SLB026	10/23/2011 02:01	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11292SLE026	10/22/2011 17:23	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11292SLE026	10/20/2011 10:45	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11293SLB026	10/20/2011 16:45	JoElla L Rice	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11293A16A	10/21/2011 07:03	Laura M Krieger	24.27
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201129225896	10/19/2011 22:00	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201129225896	10/19/2011 22:01	Lois E Hiltz	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112920031A	10/23/2011 04:01	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112920031A	10/20/2011 06:50	Katheryne V Sponheimer	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112920034A	10/19/2011 20:34	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112930029A	10/20/2011 21:19	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112920028A	10/21/2011 19:02	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112920027A	10/21/2011 05:15	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112920027A	10/20/2011 12:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	112920028A	10/20/2011 12:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112920034A	10/19/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112930029A	10/20/2011 16:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112935708007	10/26/2011 21:14	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112935708007	10/26/2011 21:14	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112935708007	10/26/2011 21:14	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112935708007	10/26/2011 21:14	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112935708007	10/26/2011 21:14	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112935708007	10/26/2011 21:14	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112935708007	10/26/2011 21:14	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112935708007	10/26/2011 21:14	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112935708007	10/26/2011 21:14	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112935708007	10/26/2011 21:14	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112935708007	10/26/2011 21:14	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112935708007	10/26/2011 21:14	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112935708007	10/28/2011 05:15	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112935708007	10/26/2011 21:14	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112931026004A	10/24/2011 14:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112931026004A	10/24/2011 14:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112931026004D	10/24/2011 14:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112931026004A	10/24/2011 14:04	Choon Y Tian	2

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Sample Description: SL-020-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA7-SB-4.0-5.0

LLI Sample # SW 6441965
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 12:23

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL204 SDG#: DE271-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112931026004A	10/24/2011 14:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112931026004A	10/24/2011 14:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112931026004A	10/24/2011 14:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112931026004A	10/24/2011 14:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112931026004A	10/24/2011 14:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112931026004C	10/24/2011 14:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112931026004A	10/24/2011 14:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112931026004B	10/24/2011 14:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112931026004A	10/24/2011 14:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112931026004A	10/24/2011 14:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112931026004A	10/24/2011 14:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112931026004A	10/24/2011 14:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112935711007	10/24/2011 17:42	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112935708007	10/21/2011 09:42	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112931026004	10/21/2011 09:42	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112935711007	10/21/2011 11:37	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11300621201A	10/28/2011 10:36	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11293621202B	10/24/2011 17:12	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11298243201A	10/26/2011 14:57	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11293102201B	10/21/2011 08:21	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11300621201A	10/27/2011 06:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621202B	10/20/2011 07:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11293102201B	10/20/2011 15:35	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039402A	10/27/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11298243201A	10/25/2011 09:10	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

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Analysis Report

Sample Description: SL-020-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA7-SB-9.0-10.0

LLI Sample # SW 6441966
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 14:44

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL209 SDG#: DE271-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	580		1
04688	Benzidine	92-87-5	1,400	U	1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U	190	580		1
04688	Benzyl alcohol	100-51-6	190	U	190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U	39	190		1
04688	4-Chloroaniline	106-47-8	78	U	78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U	39	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U	120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U	39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U	39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	580		1
04688	2,4-Dinitrophenol	51-28-5	390	U	390	1,200		1
04688	2,4-Dinitrotoluene	121-14-2	39	U	39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U	78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	580		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	39	U	39	190		1
04688	4-Methylphenol	106-44-5	39	U	39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	39	U	39	190		1
04688	4-Nitroaniline	100-01-6	78	U	78	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	580		1
04688	Phenol	108-95-2	19	U	19	190		1

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Sample Description: **SL-020-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA7-SB-9.0-10.0

LLI Sample # SW 6441966
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 14:44

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL209 SDG#: DE271-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	190	U	190	190		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U	39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U	39	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.77	U	0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U	0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U	0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U	0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U	0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U	6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U	6.9	21		1
10138	Chrysene	218-01-9	0.38	U	0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U	0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U	6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U	6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U	6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U	0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U	0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77	U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U	0.77	1.9		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.2		25.05
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.39	U	0.39	2.0		1
10225	PCB-1232	11141-16-5	0.39	U	0.39	2.0		1
10225	PCB-1242	53469-21-9	0.39	U	0.39	2.0		1
10225	PCB-1248	12672-29-6	0.39	U	0.39	2.0		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-020-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA7-SB-9.0-10.0

LLI Sample # SW 6441966
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 14:44

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL209 SDG#: DE271-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.39	U	0.39	2.0		1
10225	PCB-1260	11096-82-5	0.46	U	0.46	2.0		1
10225	PCB-1262	37324-23-5	0.39	U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U	0.39	2.0		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	120	U	120	580		1
10501	Isopropanol	67-63-0	120	U	120	580		1
10501	Methanol	67-56-1	120	U	120	580		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.8	U	5.8	12		1
08283	Ethylene glycol	107-21-1	5.8	U	5.8	12		1
08283	Propylene glycol	57-55-6	5.8	U	5.8	12		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.1		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.1		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.1		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C15-C20)	n.a.	0.47	U	0.47	1.4		1
10199	EFH (C21-C30)	n.a.	1.5		0.47	1.4		1
10199	EFH (C30 - C40)	n.a.	4.1		0.47	1.4		1
10199	EFH (C8-C11)	n.a.	0.47	U	0.47	1.4		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,300		6.80	22.5		1
07914	Boron	7440-42-8	0.404	U	0.404	5.62		1
01650	Calcium	7440-70-2	1,650		2.81	22.5		1
01654	Iron	7439-89-6	20,900		2.93	22.5		1
01656	Lithium	7439-93-2	22.2		0.70	2.2		1
01657	Magnesium	7439-95-4	2,880		0.494	11.2		1
06958	Manganese	7439-96-5	129		0.0404	0.562		1
10145	Phosphorus	7723-14-0	245		0.393	11.2		1
01662	Potassium	7440-09-7	1,140		12.7	56.2		1
01667	Sodium	7440-23-5	102	J	6.68	112		1
07968	Strontium	7440-24-6	11.3		0.0281	0.562		1
06969	Tin	7440-31-5	2.58	J	0.359	11.2		1
06970	Titanium	7440-32-6	828		0.0798	1.12		1
10146	Zirconium	7440-67-7	1.57	J	0.517	5.62		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-020-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA7-SB-9.0-10.0

LLI Sample # SW 6441966
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 14:44

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL209 SDG#: DE271-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.230 J	0.0864	0.234		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	24.6	0.0935	0.467		2
06126	Barium	7440-39-3	79.8	0.124	0.467		2
06127	Beryllium	7440-41-7	1.60	0.0187	0.117		2
06128	Cadmium	7440-43-9	0.0514 U	0.0514	0.117		2
06131	Chromium	7440-47-3	27.3	0.140	0.467		2
06132	Cobalt	7440-48-4	5.98	0.0234	0.117		2
06133	Copper	7440-50-8	12.7	0.0935	0.467		2
06135	Lead	7439-92-1	13.1	0.0119	0.234		2
06138	Molybdenum	7439-98-7	2.95	0.0584	0.117		2
06139	Nickel	7440-02-0	15.3	0.117	0.467		2
06141	Selenium	7782-49-2	0.305 J	0.0678	0.467		2
06142	Silver	7440-22-4	0.0874 J	0.0166	0.117		2
06145	Thallium	7440-28-0	0.211	0.0350	0.117		2
06148	Vanadium	7440-62-2	77.4	0.0257	0.117		2
06149	Zinc	7440-66-6	49.7	0.654	3.50		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0143 J	0.0078	0.111		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.9	0.94	1.2		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5 U	10.5	35.0		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.45 J	0.23	1.2		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.55		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.60	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	14.4	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-020-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA7-SB-9.0-10.0

LLI Sample # SW 6441966
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 14:44

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL209 SDG#: DE271-04

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-020-SA7-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11293SLB026	10/23/2011 02:26	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11292SLE026	10/24/2011 09:25	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11292SLE026	10/20/2011 10:45	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11293SLB026	10/20/2011 16:45	JoElla L Rice	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11293A16A	10/21/2011 07:40	Laura M Krieger	25.05
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201129225896	10/19/2011 22:02	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201129225896	10/19/2011 22:04	Lois E Hiltz	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112920031A	10/23/2011 04:20	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112920031A	10/20/2011 06:50	Katheryne V Sponheimer	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112920034A	10/19/2011 20:51	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112930029A	10/20/2011 21:32	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112920028A	10/21/2011 17:33	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112920027A	10/21/2011 05:39	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112920027A	10/20/2011 12:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	112920028A	10/20/2011 12:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112920034A	10/19/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112930029A	10/20/2011 16:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112935708007	10/26/2011 21:18	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112935708007	10/26/2011 21:18	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112935708007	10/26/2011 21:18	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112935708007	10/26/2011 21:18	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112935708007	10/26/2011 21:18	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112935708007	10/26/2011 21:18	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112935708007	10/26/2011 21:18	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112935708007	10/26/2011 21:18	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112935708007	10/26/2011 21:18	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112935708007	10/26/2011 21:18	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112935708007	10/26/2011 21:18	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112935708007	10/26/2011 21:18	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112935708007	10/28/2011 05:19	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112935708007	10/26/2011 21:18	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112931026004A	10/24/2011 14:34	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112931026004A	10/24/2011 14:34	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112931026004D	10/24/2011 14:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112931026004A	10/24/2011 14:34	Choon Y Tian	2

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Analysis Report

Sample Description: SL-020-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-020-SA7-SB-9.0-10.0

LLI Sample # SW 6441966
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 14:44

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL209 SDG#: DE271-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112931026004A	10/24/2011 14:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112931026004A	10/24/2011 14:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112931026004A	10/24/2011 14:34	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112931026004A	10/24/2011 14:34	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112931026004A	10/24/2011 14:34	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112931026004C	10/24/2011 14:34	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112931026004A	10/24/2011 14:34	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112931026004B	10/24/2011 14:34	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112931026004A	10/24/2011 14:34	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112931026004A	10/24/2011 14:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112931026004A	10/24/2011 14:34	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112931026004A	10/24/2011 14:34	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112935711007	10/24/2011 17:43	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112935708007	10/21/2011 09:42	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112931026004	10/21/2011 09:42	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112935711007	10/21/2011 11:37	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11300621201A	10/28/2011 10:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11293621202B	10/24/2011 17:35	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11298243201A	10/26/2011 15:23	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11293102201B	10/21/2011 08:22	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11300621201A	10/27/2011 06:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621202B	10/20/2011 07:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11293102201B	10/20/2011 15:35	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039402B	10/27/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11298243201A	10/25/2011 09:10	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

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Analysis Report

Sample Description: SL-140-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA7-SB-3.0-4.0

LLI Sample # SW 6441967
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 09:50

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL140 SDG#: DE271-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	840		180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	74	U	74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U	74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	74	U	74	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-140-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-140-SA7-SB-3.0-4.0

LLI Sample # SW 6441967
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 09:50

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL140 SDG#: DE271-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		24.95
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-140-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-140-SA7-SB-3.0-4.0

LLI Sample # SW 6441967
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 09:50

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL140 SDG#: DE271-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	110	U	110	550		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.5	U	5.5	11		1
08283	Ethylene glycol	107-21-1	5.5	U	5.5	11		1
08283	Propylene glycol	57-55-6	5.5	U	5.5	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	1.7		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	5.0		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U	0.44	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,000		6.56	21.7		1
07914	Boron	7440-42-8	0.390	U	0.390	5.42		1
01650	Calcium	7440-70-2	2,770		2.71	21.7		1
01654	Iron	7439-89-6	24,800		2.83	21.7		1
01656	Lithium	7439-93-2	31.8		0.67	2.2		1
01657	Magnesium	7439-95-4	3,690		0.477	10.8		1
06958	Manganese	7439-96-5	144		0.0390	0.542		1
10145	Phosphorus	7723-14-0	176		0.380	10.8		1
01662	Potassium	7440-09-7	1,090		12.3	54.2		1
01667	Sodium	7440-23-5	147		6.45	108		1
07968	Strontium	7440-24-6	19.5		0.0271	0.542		1
06969	Tin	7440-31-5	2.90	J	0.347	10.8		1
06970	Titanium	7440-32-6	863		0.0770	1.08		1
10146	Zirconium	7440-67-7	1.49	J	0.499	5.42		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-140-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-140-SA7-SB-3.0-4.0

LLI Sample # SW 6441967
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 09:50

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL140 SDG#: DE271-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0965 J	0.0810	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.03	0.0876	0.438		2
06126	Barium	7440-39-3	99.9	0.116	0.438		2
06127	Beryllium	7440-41-7	0.746	0.0175	0.110		2
06128	Cadmium	7440-43-9	0.0482 U	0.0482	0.110		2
06131	Chromium	7440-47-3	24.6	0.131	0.438		2
06132	Cobalt	7440-48-4	5.53	0.0219	0.110		2
06133	Copper	7440-50-8	5.24	0.0876	0.438		2
06135	Lead	7439-92-1	6.89	0.0112	0.219		2
06138	Molybdenum	7439-98-7	0.663	0.0548	0.110		2
06139	Nickel	7440-02-0	12.4	0.110	0.438		2
06141	Selenium	7782-49-2	0.359 J	0.0635	0.438		2
06142	Silver	7440-22-4	0.0460 J	0.0156	0.110		2
06145	Thallium	7440-28-0	0.204	0.0329	0.110		2
06148	Vanadium	7440-62-2	48.0	0.0241	0.110		2
06149	Zinc	7440-66-6	34.1	0.613	3.29		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0486 J	0.0075	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.1	0.88	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10 U	10	33.2		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.60 J	0.22	1.1		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.55		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.54	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.6	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-140-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA7-SB-3.0-4.0

LLI Sample # SW 6441967
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 09:50

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL140 SDG#: DE271-05

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-140-SA7-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11293SLB026	10/23/2011 02:51	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11292SLE026	10/24/2011 09:58	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11292SLE026	10/20/2011 10:45	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11293SLB026	10/20/2011 16:45	JoElla L Rice	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11293A16A	10/21/2011 08:18	Laura M Krieger	24.95
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201129225896	10/19/2011 22:06	Lois E Hiltz	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201129225896	10/19/2011 22:07	Lois E Hiltz	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112920031A	10/23/2011 04:38	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112920031A	10/20/2011 06:50	Katheryne V Sponheimer	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112920034A	10/19/2011 21:07	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112930029A	10/20/2011 21:45	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112920028A	10/21/2011 17:56	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112920027A	10/21/2011 06:02	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	112920027A	10/20/2011 12:00	Olivia I Santiago	1
10303	Terphenyls soil prep	SW-846 3550B	1	112920028A	10/20/2011 12:00	Olivia I Santiago	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112920034A	10/19/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112930029A	10/20/2011 16:05	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112935708007	10/26/2011 21:22	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	112935708007	10/26/2011 21:22	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	112935708007	10/26/2011 21:22	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	112935708007	10/26/2011 21:22	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	112935708007	10/26/2011 21:22	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	112935708007	10/26/2011 21:22	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	112935708007	10/26/2011 21:22	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	112935708007	10/26/2011 21:22	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	112935708007	10/26/2011 21:22	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	112935708007	10/26/2011 21:22	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	112935708007	10/26/2011 21:22	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	112935708007	10/26/2011 21:22	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	112935708007	10/28/2011 05:22	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	112935708007	10/26/2011 21:22	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	112931026004A	10/24/2011 14:37	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112931026004A	10/24/2011 14:37	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112931026004D	10/24/2011 14:37	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112931026004A	10/24/2011 14:37	Choon Y Tian	2

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Analysis Report

Sample Description: SL-140-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-140-SA7-SB-3.0-4.0

LLI Sample # SW 6441967
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 09:50

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL140 SDG#: DE271-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112931026004A	10/24/2011 14:37	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112931026004A	10/24/2011 14:37	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112931026004A	10/24/2011 14:37	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112931026004A	10/24/2011 14:37	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112931026004A	10/24/2011 14:37	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112931026004C	10/24/2011 14:37	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112931026004A	10/24/2011 14:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112931026004B	10/24/2011 14:37	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112931026004A	10/24/2011 14:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112931026004A	10/24/2011 14:37	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112931026004A	10/24/2011 14:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112931026004A	10/24/2011 14:37	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112935711007	10/24/2011 17:44	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112935708007	10/21/2011 09:42	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112931026004	10/21/2011 09:42	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112935711007	10/21/2011 11:37	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11300621201A	10/28/2011 11:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11293621202B	10/24/2011 17:58	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11298243201A	10/26/2011 15:37	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11293102201B	10/21/2011 08:23	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11300621201A	10/27/2011 06:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11293621202B	10/20/2011 07:10	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11293102201B	10/20/2011 15:35	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039402B	10/27/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11298243201A	10/25/2011 09:10	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **EB-SA7-SB-101811 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-101811

LLI Sample # WW 6441968
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 14:00

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB118 SDG#: DE271-06EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/l**	**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	3.72	0.546	1.09		1

N-Nitrosodimethylamine was detected in the method blank at a concentration of .718 ng/l. The blank value was not subtracted from the analytical result. Sufficient sample was unavailable to repeat the analysis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11292WAA026	11/01/2011 19:55	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11292WAA026	10/19/2011 15:00	Wanda F Oswald	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-101811 Water
SSFL Area IV Collocated Soil Sampling
TB-101811

LLI Sample # WW 6441969
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 08:00

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB118 SDG#: DE271-07TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/l**	**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	0.500 U	0.500	0.999		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11292WAA026	11/01/2011 20:14	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11292WAA026	10/19/2011 15:00	Wanda F Oswald	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **TB-101811 Sand**
SSFL Area IV Collocated Soil Sampling
TB-101811

LLI Sample # SW 6441970
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 08:00

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB182 SDG#: DE271-08TB

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	16.7	U	16.7	33.3		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.50	U	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11293SLE026	11/02/2011 22:21	Matthew S Woods	1
11630	NDMA Soil Microwave	SW-846 3546	1	11293SLE026	10/20/2011 18:00	Sally L Appleyard	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-101811 Water**
SSFL Area IV Collocated Soil Sampling
TB-101811

LLI Sample # WW 6441971
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 08:00

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB183 SDG#: DE271-09TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11297B20A	10/25/2011	11:20	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11297B20A	10/25/2011	11:20	Marie D John	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA5DS-SB-101811 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA5DS-SB-101811

LLI Sample # WW 6441972
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 14:00

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB182 SDG#: DE271-10EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/l		ng/l	ng/l	ng/l	
10962	N-Nitrosodimethylamine	62-75-9	4.42		0.522	1.04		1
	N-Nitrosodimethylamine was detected in the method blank at a concentration of .718 ng/l. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and N-Nitrosodimethylamine was again detected in the re-analysis of the sample. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	20	U	20	60		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	2-butoxy-Ethanol	111-76-2	50	U	50	50		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	30		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB-SA5DS-SB-101811 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA5DS-SB-101811

LLI Sample # WW 6441972
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 14:00

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB182 SDG#: DE271-10EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	30		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	2-phenoxy-Ethanol	122-99-6	50	U	50	50		1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.020	U	0.020	0.10		1
10137	Acenaphthylene	208-96-8	0.020	U	0.020	0.10		1
10137	Anthracene	120-12-7	0.020	U	0.020	0.10		1
10137	Benzo(a)anthracene	56-55-3	0.020	U	0.020	0.10		1
10137	Benzo(a)pyrene	50-32-8	0.020	U	0.020	0.10		1
10137	Benzo(b)fluoranthene	205-99-2	0.020	U	0.020	0.10		1
10137	Benzo(g,h,i)perylene	191-24-2	0.020	U	0.020	0.10		1
10137	Benzo(k)fluoranthene	207-08-9	0.020	U	0.020	0.10		1
10137	Butylbenzylphthalate	85-68-7	0.10	U	0.10	2.0		1
10137	Di-n-butylphthalate	84-74-2	0.14	J	0.10	2.0		1
10137	Chrysene	218-01-9	0.020	U	0.020	0.10		1
10137	Dibenz(a,h)anthracene	53-70-3	0.020	U	0.020	0.10		1
10137	Diethylphthalate	84-66-2	0.10	U	0.10	2.0		1
10137	Dimethylphthalate	131-11-3	0.10	U	0.10	2.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.10	U	0.10	2.0		1
10137	Fluoranthene	206-44-0	0.020	U	0.020	0.10		1
10137	Fluorene	86-73-7	0.020	U	0.020	0.10		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.020	U	0.020	0.10		1
10137	1-Methylnaphthalene	90-12-0	0.020	U	0.020	0.10		1
10137	2-Methylnaphthalene	91-57-6	0.020	U	0.020	0.10		1
10137	Naphthalene	91-20-3	0.060	U	0.060	0.10		1
10137	N-Nitrosodimethylamine	62-75-9	0.020	U	0.020	0.10		1
10137	Di-n-octylphthalate	117-84-0	0.18	J	0.10	2.0		1
10137	Phenanthrene	85-01-8	0.060	U	0.060	0.10		1
10137	Pyrene	129-00-0	0.020	U	0.020	0.10		1

The recoveries of dimethylphthalate and butylbenzylphthalate were outside of QC limits in the LCS/LCSD. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Comparable data was not observed between the two extractions. The data reported here is from the initial extracion of the sample.

Di-n-octylphthalate was detected in the method blank at a concentration of .094 ug/l. The blank value was not subtracted from the analytical result. Di-n-octylphthalate was not detected in the re-extraction of the sample.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB-SA5DS-SB-101811 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA5DS-SB-101811

LLI Sample # WW 6441972
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 14:00

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB182 SDG#: DE271-10EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Reporting limits were raised due to limited sample volume.								
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	1.6		0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	20b Formaldehyde 8315A	50-00-0	10	U	10	50		1
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.52		1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.52		1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.52		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB-SA5DS-SB-101811 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA5DS-SB-101811

LLI Sample # WW 6441972
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 14:00

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB182 SDG#: DE271-10EB*

CAT No.	Analysis Name		CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs		**SW-846 8082**		ug/l		ug/l	ug/l	ug/l	
10227	PCB-1016		12674-11-2	0.10	U	0.10	0.52		1
10227	PCB-1221		11104-28-2	0.10	U	0.10	0.52		1
10227	PCB-1232		11141-16-5	0.21	U	0.21	0.52		1
10227	PCB-1242		53469-21-9	0.10	U	0.10	0.52		1
10227	PCB-1248		12672-29-6	0.10	U	0.10	0.52		1
10227	PCB-1254		11097-69-1	0.10	U	0.10	0.52		1
10227	PCB-1260		11096-82-5	0.16	U	0.16	0.52		1
10227	PCB-1262		37324-23-5	0.21	U	0.21	0.52		1
10227	PCB-1268		11100-14-4	0.17	U	0.17	0.52		1
GC Miscellaneous		**SW-846 8015B**		ug/l		ug/l	ug/l	ug/l	
06624	Ethanol		64-17-5	200	U	200	1,000		1
06624	Isopropanol		67-63-0	200	U	200	1,000		1
06624	Methanol		67-56-1	200	U	200	1,000		1
GC Miscellaneous		**SW-846 8015B modified**		mg/l		mg/l	mg/l	mg/l	
08278	Diethylene glycol		111-46-6	20	U	20	200		1
08278	Ethylene glycol		107-21-1	20	U	20	200		1
08278	Propylene glycol		57-55-6	20	U	20	200		1
GC Petroleum Hydrocarbons		**SW-846 8015B**		mg/l		mg/l	mg/l	mg/l	
10319	m-Terphenyl		92-06-8	0.082	U	0.082	0.25		1
10319	o-Terphenyl		84-15-1	0.082	U	0.082	0.25		1
10319	p-Terphenyl		92-94-4	0.082	U	0.082	0.25		1
GC Petroleum Hydrocarbons		**SW-846 8015B modified**		mg/l		mg/l	mg/l	mg/l	
10365	EFH (C12-C14)		n.a.	0.11	U	0.11	0.64		1
10365	EFH (C15-C20)		n.a.	0.11	U	0.11	0.64		1
10365	EFH (C21-C30)		n.a.	0.11	U	0.11	0.64		1
10365	EFH (C30 - C40)		n.a.	0.11	U	0.11	0.64		1
10365	EFH (C8-C11)		n.a.	0.11	U	0.11	0.64		1
Metals		**SW-846 6010B**		mg/l		mg/l	mg/l	mg/l	
01743	Aluminum		7429-90-5	0.0801	U	0.0801	0.200		1
08014	Boron		7440-42-8	0.0034	J	0.0022	0.0500		1
01750	Calcium		7440-70-2	0.0705	U	0.0705	0.200		1
01754	Iron		7439-89-6	0.0141	U	0.0141	0.200		1
01756	Lithium		7439-93-2	0.0076	U	0.0076	0.0200		1
01757	Magnesium		7439-95-4	0.0067	U	0.0067	0.100		1
07058	Manganese		7439-96-5	0.00044	U	0.00044	0.0050		1
10143	Phosphorus		7723-14-0	0.0047	U	0.0047	0.100		1
01762	Potassium		7440-09-7	0.0874	U	0.0874	0.500		1
01767	Sodium		7440-23-5	0.0647	U	0.0647	1.00		1
08068	Strontium		7440-24-6	0.00022	U	0.00022	0.0050		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB-SA5DS-SB-101811 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA5DS-SB-101811

LLI Sample # WW 6441972
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 14:00

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB182 SDG#: DE271-10EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
07069	Tin	7440-31-5	0.0043 U	0.0043	0.0200		1
07070	Titanium	7440-32-6	0.00046 U	0.00046	0.0100		1
10144	Zirconium	7440-67-7	0.0042 U	0.0042	0.0500		1
	SW-846 6020		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00042 U	0.00042	0.0010		1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00069 U	0.00069	0.0020		1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000080 U	0.000080	0.0010		1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00027 U	0.00027	0.0020		1
06042	Silver	7440-22-4	0.000098 U	0.000098	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00018 U	0.00018	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000026 U	0.000026	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050 U	0.050	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9012B		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
08255	16b Cyanide by 9012B	57-12-5	0.0050 U	0.0050	0.010		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	17b pH by 9040B	n.a.	6.1	0.010	0.010		1

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Sample Description: **EB-SA5DS-SB-101811 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA5DS-SB-101811

LLI Sample # WW 6441972
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 14:00

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB182 SDG#: DE271-10EB*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11292WAA026	11/01/2011 20:51	Matthew S Woods	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11297WAI026	10/26/2011 19:09	Holly Berry	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11297WAE026	10/25/2011 10:07	Joseph M Gambler	1
00813	BNA Water Extraction	SW-846 3510C	1	11297WAI026	10/25/2011 09:00	Cynthia J Salvatori	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11297WAE026	10/24/2011 17:00	JoElla L Rice	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11292WAA026	10/19/2011 15:00	Wanda F Oswald	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11294B20A	10/24/2011 14:07	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	11294B20A	10/24/2011 14:07	Catherine J Schwarz	1
10131	15b Energetics by 8330A	SW-846 8330A	1	112930023A	10/27/2011 10:49	Michele D Hamilton	1
04144	20b Formaldehyde 8315A	SW-846 8315A	1	112930018A	10/21/2011 19:25	James H Place	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	112980001A	11/01/2011 02:23	Jessica L Miller	1
11117	PCB Waters Extraction	SW-846 3510C	1	112980001A	10/25/2011 16:55	JoElla L Rice	1
01013	Formaldehyde Extraction	SW-846 8315A	1	112930018A	10/21/2011 09:15	Denise L Trimby	1
11122	Energetics Extraction	SW-846 8330	1	112930023A	10/21/2011 09:30	Kerrie A Freeburn	1
06624	18b Alcohols by 8015B	SW-846 8015B	1	112930031A	10/21/2011 20:42	Elizabeth J Marin	1
08278	19b Glycols by 8015B	SW-846 8015B modified	1	112970039A	10/24/2011 23:09	Tyler O Griffin	1
10319	22b Terphenyls by 8015B	SW-846 8015B	1	112930011A	10/21/2011 14:58	Robert Brown	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112940018A	10/25/2011 13:37	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	112940018A	10/22/2011 10:50	Denise L Trimby	1
10304	Terphenyls water prep	SW-846 3510C	1	112930011A	10/20/2011 14:40	Kathryn I DeHaven	1
01743	Aluminum	SW-846 6010B	1	112921848006	10/24/2011 02:13	Tara L Snyder	1
08014	Boron	SW-846 6010B	1	112921848006	10/21/2011 20:01	John P Hook	1
01750	Calcium	SW-846 6010B	1	112921848006	10/24/2011 02:13	Tara L Snyder	1
01754	Iron	SW-846 6010B	1	112921848006	10/24/2011 02:13	Tara L Snyder	1
01756	Lithium	SW-846 6010B	1	112921848006	10/21/2011 20:01	John P Hook	1
01757	Magnesium	SW-846 6010B	1	112921848006	10/24/2011 02:13	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	112921848006	10/21/2011 20:01	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	112921848006	10/21/2011 20:01	John P Hook	1
01762	Potassium	SW-846 6010B	1	112921848006	10/21/2011 20:01	John P Hook	1
01767	Sodium	SW-846 6010B	1	112921848006	10/21/2011 20:01	John P Hook	1
08068	Strontium	SW-846 6010B	1	112921848006	10/21/2011 20:01	John P Hook	1
07069	Tin	SW-846 6010B	1	112921848006	10/21/2011 20:01	John P Hook	1
07070	Titanium	SW-846 6010B	1	112921848006	10/21/2011 20:01	John P Hook	1
10144	Zirconium	SW-846 6010B	1	112921848006	10/21/2011 20:01	John P Hook	1
06024	Antimony	SW-846 6020	1	112926050003A	10/24/2011 09:48	Choon Y Tian	1

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Sample Description: **EB-SA5DS-SB-101811 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA5DS-SB-101811

LLI Sample # WW 6441972
LLI Group # 1271993
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 14:00

Submitted: 10/19/2011 09:10
Reported: 11/18/2011 09:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

EB182 SDG#: DE271-10EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06025	Arsenic	SW-846 6020	1	112926050003A	10/24/2011 09:48	Choon Y Tian	1
06026	Barium	SW-846 6020	1	112926050003D	10/24/2011 09:48	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	112926050003A	10/24/2011 09:48	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	112926050003A	10/24/2011 09:48	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	112926050003A	10/24/2011 09:48	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	112926050003A	10/24/2011 09:48	Choon Y Tian	1
06033	Copper	SW-846 6020	1	112926050003A	10/24/2011 09:48	Choon Y Tian	1
06035	Lead	SW-846 6020	1	112926050003A	10/24/2011 09:48	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	112926050003C	10/24/2011 09:48	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	112926050003A	10/24/2011 09:48	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	112926050003B	10/24/2011 09:48	Choon Y Tian	1
06042	Silver	SW-846 6020	1	112926050003A	10/24/2011 09:48	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	112926050003A	10/24/2011 09:48	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	112926050003A	10/24/2011 09:48	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	112926050003A	10/24/2011 09:48	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	112945713004	10/25/2011 12:53	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	112921848006	10/20/2011 09:39	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	112926050003	10/20/2011 09:36	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	112945713004	10/21/2011 16:31	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11291196903A	10/19/2011 11:49	Ashley M Adams	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11291196903A	10/19/2011 11:49	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	2	11292281101A	10/24/2011 18:21	Elyse P Brunstetter	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11292281401B	10/19/2011 11:38	Elyse P Brunstetter	1
08255	16b Cyanide by 9012B	SW-846 9012B	1	11297117101B	10/24/2011 16:35	Venia B McFadden	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11297117101B	10/24/2011 10:15	Nancy J Shoop	1
00200	17b pH by 9040B	SW-846 9040B	1	11294020001A	10/21/2011 20:30	Luz M Groff	1

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271993
Reported: 11/18/11 at 09:29 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11292SLE026	Sample number(s): 6441963-6441967									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	91		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	84		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	91		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	96		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	88		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	100		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	95		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	94		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	93		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	98		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	98		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	91		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	95		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	95		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	102		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	97		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	93		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	92		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	84		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	84		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	89		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	89		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	89		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	93		72-119		
Batch number: 11292WAA026	Sample number(s): 6441968-6441969,6441972									
N-Nitrosodimethylamine	0.718	J	0.500	1.00	ng/l	94	100	70-130	6	30
Batch number: 11293SLB026	Sample number(s): 6441963-6441967									
Aniline	170 U		170.	500	ug/kg	78		20-115		
Benzidine	1,200 U		1,200.	3,300	ug/kg	63		15-121		
Benzoic acid	170 U		170.	500	ug/kg	77		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	91		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	98		73-114		
Carbazole	17	U	17.	170	ug/kg	97		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	96		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	73		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	94		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	90		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	90		62-115		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271993
Reported: 11/18/11 at 09:29 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Chloronaphthalene	17	U	17.	170	ug/kg	92		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	97		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	97		74-115		
Dibenzofuran	17	U	17.	170	ug/kg	95		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	88		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	88		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	88		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	71		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	98		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	97		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	117		83-120		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	60		46-120		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	31		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	96		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	99		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	104		71-125		
Hexachlorobenzene	17	U	17.	170	ug/kg	96		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	94		65-117		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	81		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	86		61-109		
Isophorone	17	U	17.	170	ug/kg	92		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	94		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	91		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	97		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	95		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	74		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	94		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	93		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	91		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	84		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	101		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	70		51-117		
Phenol	17	U	17.	170	ug/kg	89		58-112		
Tetralin	170	U	170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	91		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	96		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	97		78-111		
Batch number: 11293SLE026	Sample number(s): 6441970									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	104	101	70-130	3	30
Batch number: 11297WAE026	Sample number(s): 6441972									
Acenaphthene	0.010	U	0.010	0.050	ug/l	96	101	74-109	5	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	93	95	70-110	2	30
Anthracene	0.010	U	0.010	0.050	ug/l	97	99	66-111	2	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	101	102	72-114	1	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	93	93	60-127	0	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	98	99	58-151	1	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	112	113	57-131	1	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	99	99	59-130	0	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	22*	21*	40-138	4	30

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271993
Reported: 11/18/11 at 09:29 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	60	61	56-148	2	30
Chrysene	0.010	U	0.010	0.050	ug/l	100	102	76-116	1	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	111	111	55-134	1	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	48	47	37-148	2	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	10*	10*	40-119	2	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	106	103	57-154	3	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	97	98	75-116	2	30
Fluorene	0.010	U	0.010	0.050	ug/l	101	101	75-114	0	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	109	110	53-158	1	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	92	93	71-117	0	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	91	92	75-115	1	30
Naphthalene	0.030	U	0.030	0.050	ug/l	92	93	72-109	1	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	64	65	36-89	1	30
Di-n-octylphthalate	0.094	J	0.050	1.0	ug/l	96	96	57-145	1	30
Phenanthrene	0.030	U	0.030	0.050	ug/l	94	96	76-111	2	30
Pyrene	0.010	U	0.010	0.050	ug/l	104	104	69-118	0	30
Batch number: 11297WAI026	Sample number(s): 6441972									
Aniline	1	U	1.	5	ug/l	74	78	38-116	5	30
Benzidine	20	U	20.	60	ug/l	52	48	34-117	7	30
Benzoic acid	6	U	6.	15	ug/l	44	47	10-69	8	30
Benzyl alcohol	5	U	5.	15	ug/l	84	88	66-97	5	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	95	101	75-115	5	30
2-butoxy-Ethanol	50	U	50.	50	ug/l					
Carbazole	1	U	1.	5	ug/l	99	101	75-120	2	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	101	102	70-123	1	30
4-Chloroaniline	1	U	1.	5	ug/l	63	59	24-128	6	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	99	102	74-124	3	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	88	95	77-108	8	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	84	93	62-127	10	30
2-Chloronaphthalene	2	U	2.	5	ug/l	72	75	54-132	3	30
2-Chlorophenol	1	U	1.	5	ug/l	95	100	71-114	5	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	98	97	77-114	1	30
Dibenzofuran	1	U	1.	5	ug/l	95	95	75-117	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	81	86	55-118	7	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	78	85	61-111	8	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	79	84	53-119	6	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	58	57	37-117	1	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	103	103	77-117	0	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	98	97	72-110	1	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	103	106	70-130	3	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	104	108	65-126	4	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	100	102	52-131	2	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	102	101	76-119	1	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	100	102	76-118	2	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	97	102	68-127	5	30
Hexachlorobenzene	1	U	1.	5	ug/l	97	100	75-119	4	30
Hexachlorobutadiene	1	U	1.	5	ug/l	85	87	57-124	3	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	56	54	36-118	3	30
Hexachloroethane	1	U	1.	5	ug/l	74	80	52-113	8	30
Isophorone	1	U	1.	5	ug/l	96	100	74-117	4	30
2-Methylphenol	1	U	1.	5	ug/l	92	98	58-110	7	30
4-Methylphenol	2	U	2.	5	ug/l	85	91	49-108	7	30
2-Nitroaniline	1	U	1.	5	ug/l	100	102	75-120	2	30
3-Nitroaniline	1	U	1.	5	ug/l	99	98	74-113	1	30
4-Nitroaniline	1	U	1.	5	ug/l	86	86	59-100	0	30
Nitrobenzene	1	U	1.	5	ug/l	93	98	75-109	6	30
2-Nitrophenol	1	U	1.	5	ug/l	98	99	76-118	1	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271993
Reported: 11/18/11 at 09:29 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Nitrophenol	10	U	10.	30	ug/l	57	54	16-78	6	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	86	93	69-110	8	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	90	94	67-136	4	30
Pentachlorophenol	3	U	3.	15	ug/l	111*	112*	53-110	1	30
Phenol	1	U	1.	5	ug/l	51	61	21-67	18	30
2-phenoxy-Ethanol	50	U	50.	50	ug/l					
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	88	91	71-112	3	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	98	100	79-107	2	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	102	101	76-120	0	30
Batch number: 11293A16A	Sample number(s): 6441965-6441967									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	76		67-119		
Batch number: 11294B20A	Sample number(s): 6441972									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 11297B20A	Sample number(s): 6441971									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 112930023A	Sample number(s): 6441972									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	110	100	80-120	10	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	98	95	80-120	3	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	93	93	50-122	0	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	93	93	50-122	0	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	100	99	72-117	1	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	94	92	80-120	2	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
HMX	0.65	U	0.65	2.0	ug/l	91	87	65-125	4	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	94	91	75-121	3	30
Nitroglycerin	5.2	U	5.2	15	ug/l	96	92	80-120	4	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	94	91	74-120	3	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	98	96	69-107	2	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	92	90	80-120	2	30
PETN	6.0	U	6.0	18	ug/l	100	100	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	89	86	70-125	3	30
Tetryl	0.40	U	0.40	0.60	ug/l	81	80	31-148	1	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	87	100	53-129	14	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	100	98	76-109	2	30
Batch number: 112930018A	Sample number(s): 6441972									
20b Formaldehyde 8315A	10	U	10.	50	ug/l	92	96	69-130	4	30
Batch number: 112920031A	Sample number(s): 6441963-6441967									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	66	67	36-106	0	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	88		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	96		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112980001A	Sample number(s): 6441972									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271993
Reported: 11/18/11 at 09:29 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Aroclor 5442	0.10	U	0.10	0.50	ug/l	64	62	35-84	3	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	90	90	51-128	0	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	100	104	56-135	4	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 112920034A	Sample number(s): 6441965-6441967									
Ethanol	100 U		100.	500	ug/kg	85		71-129		
Isopropanol	100 U		100.	500	ug/kg	89		75-125		
Methanol	100 U		100.	500	ug/kg	76		68-129		
Batch number: 112930029A	Sample number(s): 6441965-6441967									
Diethylene glycol	5.0	U	5.0	10	mg/kg	100		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	102		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	98		67-131		
Batch number: 112930031A	Sample number(s): 6441972									
Ethanol	200 U		200.	1,000	ug/l	100		78-116		
Isopropanol	200 U		200.	1,000	ug/l	100		75-125		
Methanol	200 U		200.	1,000	ug/l	104		76-122		
Batch number: 112970039A	Sample number(s): 6441972									
Diethylene glycol	20	U	20.	200	mg/l	105		67-126		
Ethylene glycol	20	U	20.	200	mg/l	80		78-136		
Propylene glycol	20	U	20.	200	mg/l	80		65-132		
Batch number: 112920027A	Sample number(s): 6441965-6441967									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	94		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	96		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	97		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	85		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	83		49-107		
Batch number: 112920028A	Sample number(s): 6441965-6441967									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	100		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	105		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	98		69-109		
Batch number: 112930011A	Sample number(s): 6441972									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	104	106	61-108	2	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	108	110	75-125	2	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	104	108	63-110	4	20
Batch number: 112940018A	Sample number(s): 6441972									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	114	100	63-121	13	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	108	103	72-124	5	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271993
Reported: 11/18/11 at 09:29 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
EFH (C21-C30)	0.10 U	0.10	0.60	mg/l	85	85	64-123	0	30
EFH (C30 - C40)	0.10 U	0.10	0.60	mg/l	100	80	73-124	22	30
EFH (C8-C11)	0.10 U	0.10	0.60	mg/l	114*	100	43-107	13	30
Batch number: 112921848006	Sample number(s): 6441972								
Aluminum	0.0801 U	0.0801	0.200	mg/l	100	99	90-112	0	20
Boron	0.0022 U	0.0022	0.0500	mg/l	93	89	89-110	5	20
Calcium	0.0705 U	0.0705	0.200	mg/l	97	97	90-110	0	20
Iron	0.0141 U	0.0141	0.200	mg/l	101	101	90-112	0	20
Lithium	0.0076 U	0.0076	0.0200	mg/l	98	97	90-110	1	20
Magnesium	0.0067 U	0.0067	0.100	mg/l	99	100	90-110	1	20
Manganese	0.00046 J	0.00044	0.0050	mg/l	99	95	90-110	4	20
Phosphorus	0.0047 U	0.0047	0.100	mg/l	99	98	90-110	1	20
Potassium	0.0874 U	0.0874	0.500	mg/l	101	97	85-115	3	20
Sodium	0.0647 U	0.0647	1.00	mg/l	100	97	87-114	3	20
Strontium	0.00022 U	0.00022	0.0050	mg/l	99	94	90-110	5	20
Tin	0.0043 U	0.0043	0.0200	mg/l	95	94	90-110	1	20
Titanium	0.00046 U	0.00046	0.0100	mg/l	101	95	90-113	6	20
Zirconium	0.0042 U	0.0042	0.0500	mg/l	102	99	90-110	3	20
Batch number: 112926050003A	Sample number(s): 6441972								
Antimony	0.00042 U	0.00042	0.0010	mg/l	106	97	87-110	10	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	98	101	86-111	2	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	106	106	90-113	0	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	95	104	90-114	8	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	102	107	90-118	5	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	102	101	87-113	1	20
Copper	0.00038 U	0.00038	0.0020	mg/l	105	103	90-113	1	20
Lead	0.000080 U	0.00008 0	0.0010	mg/l	105	104	90-115	0	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	103	103	90-113	0	20
Silver	0.000098 U	0.00009 8	0.00050	mg/l	103	101	90-115	3	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	106	97	89-116	9	20
Vanadium	0.00018 U	0.00018	0.00050	mg/l	104	106	89-116	2	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	100	109	90-116	8	20
Batch number: 112926050003B	Sample number(s): 6441972								
Selenium	0.00027 U	0.00027	0.0020	mg/l	108	106	85-114	2	20
Batch number: 112926050003C	Sample number(s): 6441972								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	104	98	89-115	6	20
Batch number: 112926050003D	Sample number(s): 6441972								
Barium	0.00069 U	0.00069	0.0020	mg/l	99	98	88-113	1	20
Batch number: 112931026004A	Sample number(s): 6441963-6441967								
Antimony	0.0733 U	0.0733	0.198	mg/kg	75		40-227		
Arsenic	0.0792 U	0.0792	0.396	mg/kg	104		83-111		
Beryllium	0.0158 U	0.0158	0.0990	mg/kg	96		84-112		
Cadmium	0.0436 U	0.0436	0.0990	mg/kg	99		83-111		
Chromium	0.119 U	0.119	0.396	mg/kg	111		77-123		
Cobalt	0.0198 U	0.0198	0.0990	mg/kg	105		85-114		
Copper	0.117 J	0.0792	0.396	mg/kg	103		81-110		
Lead	0.0110 J	0.0101	0.198	mg/kg	100		84-112		
Nickel	0.0990 U	0.0990	0.396	mg/kg	100		81-110		
Silver	0.0141 U	0.0141	0.0990	mg/kg	104		83-112		
Thallium	0.0297 U	0.0297	0.0990	mg/kg	104		82-112		

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Vanadium	0.195		0.0218	0.0990	mg/kg	101		76-110		
Zinc	0.554	U	0.554	2.97	mg/kg	98		82-110		
Batch number: 112931026004B	Sample number(s): 6441963-6441967									
Selenium	0.0574	U	0.0574	0.396	mg/kg	98		79-110		
Batch number: 112931026004C	Sample number(s): 6441963-6441967									
Molybdenum	0.0581	J	0.0495	0.0990	mg/kg	100		80-110		
Batch number: 112931026004D	Sample number(s): 6441963-6441967									
Barium	0.105	U	0.105	0.396	mg/kg	105		83-110		
Batch number: 112935708007	Sample number(s): 6441963-6441967									
Aluminum	5.99	U	5.99	19.8	mg/kg	90		40-127		
Boron	0.356	U	0.356	4.95	mg/kg	104		83-110		
Calcium	4.81	J	2.48	19.8	mg/kg	103		81-110		
Iron	9.83	J	2.58	19.8	mg/kg	86		47-129		
Lithium	0.61	U	0.61	2.0	mg/kg	101		80-120		
Magnesium	0.564	J	0.436	9.90	mg/kg	93		63-116		
Manganese	0.0356	U	0.0356	0.495	mg/kg	106		85-116		
Phosphorus	1.17	J	0.347	9.90	mg/kg	105		80-120		
Potassium	11.2	U	11.2	49.5	mg/kg	100		71-110		
Sodium	5.89	U	5.89	99.0	mg/kg	104		76-110		
Strontium	0.0248	U	0.0248	0.495	mg/kg	104		84-110		
Tin	1.40	J	0.317	9.90	mg/kg	100		86-120		
Titanium	0.0703	U	0.0703	0.990	mg/kg	91		80-120		
Zirconium	0.455	U	0.455	4.95	mg/kg	102		80-120		
Batch number: 112935711007	Sample number(s): 6441963-6441967									
Mercury	0.0069	U	0.0069	0.0980	mg/kg	101		83-119		
Batch number: 112945713004	Sample number(s): 6441972									
Mercury	0.000026 U		0.00002 6	0.00020	mg/l	101	96	80-120	5	20
Batch number: 11291196903A	Sample number(s): 6441972									
11b Anions by 300.0 - Fluoride	0.080	U	0.080	0.10	mg/l	109	108	90-110	1	20
11b Anions by 300.0 - Nitrate	0.050	U	0.050	0.10	mg/l	108	107	90-110	0	20
Batch number: 11292281101A	Sample number(s): 6441972									
7b Perchlorate EPA 314.0	0.70	U	0.70	2.0	ug/l	93	95	85-115	1	20
Batch number: 11292281401B	Sample number(s): 6441972									
3b Cr VI by EPA 7199	5.0	U	5.0	10.0	ug/l	105	107	90-110	2	20
Batch number: 11293102201B	Sample number(s): 6441965-6441967									
16a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	85		80-120		
Batch number: 11293621202B	Sample number(s): 6441963-6441967									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	105		85-115		
Batch number: 11297117101B	Sample number(s): 6441972									
16b Cyanide by 9012B	0.0050	U	0.0050	0.010	mg/l	101	101	90-110	0	20
Batch number: 11298243201A	Sample number(s): 6441963-6441967									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	89		80-120		
Batch number: 11300621201A	Sample number(s): 6441963-6441967									

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Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	110		90-110		
Batch number: 11294020001A	Sample number(s): 6441972									
17b pH by 9040B						100	100	90-110	0	3
Batch number: 11300039402A	Sample number(s): 6441963-6441965									
17a pH by 9045C						100		95-105		
Batch number: 11300039402B	Sample number(s): 6441966-6441967									
17a pH by 9045C						100		95-105		
Batch number: 11298162401B	Sample number(s): 6441963-6441967,6441970									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11292SLE026	Sample number(s): 6441963-6441967 UNSPK: P439922								
Acenaphthene	81	85	63-105	5	30				
Acenaphthylene	76	80	67-114	6	30				
Anthracene	84	86	73-115	3	30				
Benzo(a)anthracene	89	88	59-128	1	30				
Benzo(a)pyrene	81	81	58-142	0	30				
Benzo(b)fluoranthene	87	88	54-163	1	30				
Benzo(g,h,i)perylene	86	87	33-141	2	30				
Benzo(k)fluoranthene	85	88	57-153	3	30				
Butylbenzylphthalate	87	90	57-173	4	30				
Di-n-butylphthalate	89	89	65-148	0	30				
Chrysene	89	89	67-123	0	30				
Dibenz(a,h)anthracene	84	83	22-133	0	30				
Diethylphthalate	86	88	70-136	1	30				
Dimethylphthalate	87	90	74-118	4	30				
Bis(2-Ethylhexyl)phthalate	103	101	39-167	2	30				
Fluoranthene	88	90	51-149	2	30				
Fluorene	73	88	66-122	18	30				
Indeno(1,2,3-cd)pyrene	84	85	21-143	1	30				
1-Methylnaphthalene	75	80	72-123	6	30				
2-Methylnaphthalene	75	79	64-103	5	30				
Naphthalene	77	80	61-102	5	30				
N-Nitrosodimethylamine	85	90	48-113	6	30				
Di-n-octylphthalate	83	82	40-192	1	30				
Phenanthrene	81	85	62-122	5	30				
Pyrene	85	85	51-131	0	30				
Batch number: 11293SLB026	Sample number(s): 6441963-6441967 UNSPK: 6441963								
Aniline	72	74	18-116	2	30				
Benzidine	16*	15*	35-141	6	30				
Benzoic acid	26	32	10-173	6	30				
Benzyl alcohol	92	93	67-115	1	30				
4-Bromophenyl-phenylether	101	102	67-129	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271993
Reported: 11/18/11 at 09:29 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Carbazole	96	96	64-120	0	30				
4-Chloro-3-methylphenol	91	91	62-122	0	30				
4-Chloroaniline	66	74	13-107	12	30				
bis(2-Chloroethoxy)methane	94	96	75-104	2	30				
bis(2-Chloroethyl)ether	89	91	60-116	2	30				
bis(2-Chloroisopropyl)ether	92	94	55-142	3	30				
2-Chloronaphthalene	88	92	50-141	5	30				
2-Chlorophenol	96	98	73-121	2	30				
4-Chlorophenyl-phenylether	98	99	80-109	1	30				
Dibenzofuran	95	96	71-112	2	30				
1,2-Dichlorobenzene	88	90	66-108	2	30				
1,3-Dichlorobenzene	88	89	63-109	2	30				
1,4-Dichlorobenzene	87	90	58-108	3	30				
3,3'-Dichlorobenzidine	72	75	28-109	4	30				
2,4-Dichlorophenol	96	97	66-123	1	30				
2,4-Dimethylphenol	94	93	68-118	0	30				
3,5-Dimethylphenol	112	117	71-127	4	30				
4,6-Dinitro-2-methylphenol	49	53	11-126	9	30				
2,4-Dinitrophenol	28	31	20-143	11	30				
2,4-Dinitrotoluene	95	96	56-129	1	30				
2,6-Dinitrotoluene	100	100	69-123	1	30				
1,2-Diphenylhydrazine	104	104	71-129	0	30				
Hexachlorobenzene	98	99	77-114	1	30				
Hexachlorobutadiene	95	98	62-120	3	30				
Hexachlorocyclopentadiene	66	65	10-153	2	30				
Hexachloroethane	87	87	57-109	0	30				
Isophorone	92	93	73-102	1	30				
2-Methylphenol	92	92	75-111	0	30				
4-Methylphenol	88	88	59-123	0	30				
2-Nitroaniline	97	98	67-125	2	30				
3-Nitroaniline	92	92	59-122	0	30				
4-Nitroaniline	78	82	41-109	4	30				
Nitrobenzene	97	97	57-125	0	30				
2-Nitrophenol	95	96	56-127	2	30				
4-Nitrophenol	87	90	37-129	3	30				
N-Nitroso-di-n-propylamine	85	85	60-116	1	30				
N-Nitrosodiphenylamine	101	103	71-122	2	30				
Pentachlorophenol	85	83	28-127	2	30				
Phenol	86	87	58-126	1	30				
1,2,4-Trichlorobenzene	94	96	72-115	2	30				
2,4,5-Trichlorophenol	100	101	58-129	2	30				
2,4,6-Trichlorophenol	102	102	56-134	0	30				
Batch number: 11293A16A	Sample number(s): 6441965-6441967 UNSPK: P437195								
9a TPH by EPA 8015B Gas C5-C12	77	76	39-118	9	30				
Batch number: 112920031A	Sample number(s): 6441963-6441967 UNSPK: P439922								
PCB-1016	72	65	29-146	11	50				
PCB-1260	83	75	39-149	11	50				
Batch number: 112920034A	Sample number(s): 6441965-6441967 UNSPK: P439920								
Ethanol	81	80	48-130	1	20				
Isopropanol	82	82	12-149	1	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271993
Reported: 11/18/11 at 09:29 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Methanol	85	86	43-138	1	20				
Batch number: 112930029A	Sample number(s): 6441965-6441967 UNSPK: P435690								
Diethylene glycol	5*	8*	59-109	42*	20				
Ethylene glycol	47*	45*	63-107	6	20				
Propylene glycol	65	62*	63-107	5	20				
Batch number: 112930031A	Sample number(s): 6441972 UNSPK: P442022								
Ethanol	92	88	62-145	4	20				
Isopropanol	103	99	73-131	4	20				
Methanol	82	70	52-159	11	20				
Batch number: 112970039A	Sample number(s): 6441972 UNSPK: P443499								
Diethylene glycol	105	114	83-130	9	20				
Ethylene glycol	70*	90	89-125	25*	20				
Propylene glycol	75*	90*	91-128	18	20				
Batch number: 112920027A	Sample number(s): 6441965-6441967 UNSPK: P437195								
EFH (C12-C14)	82	89	49-123	8	20				
EFH (C15-C20)	81	98	49-123	13	20				
EFH (C21-C30)	102	117	49-123	7	20				
EFH (C30 - C40)	110	138*	49-123	8	20				
EFH (C8-C11)	0*	5*	49-123	10	20				
Batch number: 112920028A	Sample number(s): 6441965-6441967 UNSPK: P437195								
m-Terphenyl	97	98	75-125	2	20				
o-Terphenyl	102	103	75-125	1	20				
p-Terphenyl	95	97	75-125	2	20				
Batch number: 112931026004A	Sample number(s): 6441963-6441967 UNSPK: 6441965 BKG: 6441965								
Antimony	39*	46*	75-125	15	20	0.0865 J	0.0985 J	13 (1)	20
Arsenic	101	188*	75-125	24*	20	4.45	5.07	13	20
Beryllium	97	138*	75-125	22*	20	0.606	0.712	16	20
Cadmium	115	135*	75-125	16	20	0.0750 J	0.0520 J	36* (1)	20
Chromium	101	182*	75-125	25*	20	18.7	21.9	16	20
Cobalt	120	146*	75-125	20	20	5.19	5.67	9	20
Copper	114	159*	75-125	23*	20	6.58	7.09	7	20
Lead	112	187*	75-125	23*	20	5.71	6.61	15	20
Nickel	112	161*	75-125	22*	20	9.89	14.0	35*	20
Silver	119	138*	75-125	16	20	0.0292 J	0.0487 J	50* (1)	20
Thallium	113	151*	75-125	20	20	0.284	0.279	2 (1)	20
Vanadium	84	229*	75-125	28*	20	36.2	41.3	13	20
Zinc	62 (2)	187 (2)	75-125	20	20	50.2	50.8	1	20
Batch number: 112931026004B	Sample number(s): 6441963-6441967 UNSPK: 6441965 BKG: 6441965								
Selenium	113	135*	75-125	18	20	0.134 J	0.159 J	17 (1)	20
Batch number: 112931026004C	Sample number(s): 6441963-6441967 UNSPK: 6441965 BKG: 6441965								
Molybdenum	112	139*	75-125	23*	20	0.452	0.543	18 (1)	20
Batch number: 112931026004D	Sample number(s): 6441963-6441967 UNSPK: 6441965 BKG: 6441965								
Barium	103 (2)	326 (2)	75-125	24*	20	71.9	80.3	11	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271993
Reported: 11/18/11 at 09:29 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 112935708007	Sample number(s): 6441963-6441967 UNSPK: 6441963 BKG: 6441963								
Aluminum	1463 (2)	1098 (2)	75-125	3	20	20,600	19,000	8	20
Boron	99	99	84-115	1	20	0.343 U	0.356 U	0 (1)	20
Calcium	153 (2)	171 (2)	75-125	2	20	2,760	2,740	0	20
Iron	437 (2)	-350 (2)	75-125	3	20	22,100	21,200	4	20
Lithium	98	98	82-114	1	20	20.5	19.0	7	20
Magnesium	153 (2)	108 (2)	75-125	2	20	4,790	4,460	7	20
Manganese	66 (2)	79 (2)	75-125	2	20	248	237	5	20
Phosphorus	109 (2)	107 (2)	75-125	0	20	433	459	6	20
Potassium	116	113	75-125	0	20	1,580	1,770	11	20
Sodium	97	97	75-125	1	20	90.1 J	88.3 J	2 (1)	20
Strontium	100	101	75-115	1	20	22.5	23.0	2	20
Tin	88	88	80-110	1	20	2.36 J	2.50 J	6 (1)	20
Titanium	211 (2)	231 (2)	75-125	2	20	963	945	2	20
Zirconium	97	97	81-110	1	20	6.75	6.86	2 (1)	20
Batch number: 112935711007	Sample number(s): 6441963-6441967 UNSPK: 6441967 BKG: 6441967								
Mercury	98	97	65-135	2	20	0.0439 J	0.0372 J	17 (1)	20
Batch number: 11293102201B	Sample number(s): 6441965-6441967 UNSPK: P437195 BKG: P437195								
16a Cyanide by 9012B	99		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11293621202B	Sample number(s): 6441963-6441967 UNSPK: 6441963 BKG: 6441963								
7a Perchlorate EPA 314.0	103		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11298243201A	Sample number(s): 6441963-6441967 UNSPK: 6441963 BKG: 6441963								
3a Cr VI by EPA 7199	96		75-125			0.46 J	0.65 J	36* (1)	20
Batch number: 11300621201A	Sample number(s): 6441963-6441967 UNSPK: 6441963 BKG: 6441963								
11a Anions by 300.0 - Fluoride	53*		80-120			1.9	2.4	22* (1)	20
Batch number: 11300039402A	Sample number(s): 6441963-6441965 BKG: P439922								
17a pH by 9045C						8.26	8.27	0	3
Batch number: 11300039402B	Sample number(s): 6441966-6441967 BKG: P443494								
17a pH by 9045C						6.51	6.54	0	3
Batch number: 11298162401B	Sample number(s): 6441963-6441967,6441970 BKG: P437195								
Moisture Content by 160.3						11.8	11.7	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11292SLE026

Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271993
Reported: 11/18/11 at 09:29 AM

Surrogate Quality Control

6441963	97	82	88
6441964	99	83	85
6441965	107	87	94
6441966	94	83	90
6441967	95	81	89
Blank	94	83	90
LCS	101	84	88
MS	101	77	84
MSD	97	81	82
Limits:	40-130	45-130	45-135

Analysis Name: 21b. NDMA in Water
Batch number: 11292WAA026

	N-Nitrosodimethylamine-d6
6441968	127
6441969	105
6441972	104
Blank	117
LCS	120
LCSD	114
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11293SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6441963	82	89	79	87	88	80
6441964	83	90	75	85	85	79
6441965	84	91	76	88	88	80
6441966	82	90	74	84	86	80
6441967	80	89	75	87	89	80
Blank	83	89	80	86	88	82
LCS	86	91	82	86	88	79
MS	84	91	82	88	90	82
MSD	85	92	82	90	93	82
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 21a NDMA by 1625C
Batch number: 11293SLE026

	N-Nitrosodimethylamine-d6
6441970	112
Blank	110
LCS	104
LCSD	110
Limits:	50-150

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11297WAE026

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271993
Reported: 11/18/11 at 09:29 AM

Surrogate Quality Control

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6441972	105	88	95
Blank	102	88	93
LCS	104	89	93
LCSD	105	89	92
Limits:	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11297WAI026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6441972	60	38	90	82	82	104
Blank	61	41	90	85	88	102
LCS	69	48	89	86	87	97
LCSD	71	51	91	91	89	99
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11293A16A

	Trifluorotoluene-F
6441965	86
6441966	87
6441967	87
Blank	92
LCS	93
MS	90
MSD	76
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11294B20A

	Trifluorotoluene-F
6441972	87
Blank	86
LCS	117
LCSD	113
Limits:	63-135

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11297B20A

	Trifluorotoluene-F
6441971	86
Blank	87
LCS	117
LCSD	113
Limits:	63-135

Analysis Name: 8a PCBs/PCTs by 8082

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271993
Reported: 11/18/11 at 09:29 AM

Surrogate Quality Control

Batch number: 112920031A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6441963	90	95
6441964	87	95
6441965	93	90
6441966	88	90
6441967	95	84
Blank	86	94
LCS	94	102
LCSD	94	106
MS	90	97
MSD	86	91
Limits:	53-139	45-120

Analysis Name: 20b Formaldehyde 8315A
Batch number: 112930018A

	Butyraldehyde
6441972	91
Blank	86
LCS	94
LCSD	95
Limits:	45-145

Analysis Name: 15b Energetics by 8330A
Batch number: 112930023A

	2-Nitro-m-xylene
6441972	92
Blank	91
LCS	91
LCSD	92
Limits:	50-134

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 112980001A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6441972	105	97
Blank	101	104
LCS	101	84
LCSD	99	79
Limits:	30-150	30-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 112920027A

	Chlorobenzene	Orthoterphenyl
6441965	76	87
6441966	68	79
6441967	73	83
Blank	82	88

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271993
Reported: 11/18/11 at 09:29 AM

Surrogate Quality Control

LCS	88	92
MS	77	86
MSD	80	90
Limits:	37-125	47-145

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112920028A

n-Triacontane-d62

6441965	76
6441966	71
6441967	75
Blank	80
LCS	79
MS	79
MSD	79
Limits:	19-152

Analysis Name: 18a Alcohols by 8015B
Batch number: 112920034A

Acetone

6441965	71
6441966	74
6441967	76
Blank	86
LCS	89
MS	80
MSD	78
Limits:	42-138

Analysis Name: 22b Terphenyls by 8015B
Batch number: 112930011A

n-Triacontane-d62

6441972	75
Blank	76
LCS	78
LCSD	77
Limits:	17-138

Analysis Name: 19a Glycols by 8015B
Batch number: 112930029A

Tetramethylene glycol

6441965	93
6441966	93
6441967	90
Blank	98
LCS	98
MS	92
MSD	90

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271993
Reported: 11/18/11 at 09:29 AM

Surrogate Quality Control

Limits: 29-137

Analysis Name: 18b Alcohols by 8015B
Batch number: 112930031A

	Acetone
6441972	98
Blank	101
LCS	104
MS	108
MSD	103
Limits:	54-147

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 112940018A

	Chlorobenzene	Orthoterphenyl
6441972	86	88
Blank	106	
LCS	130	101
LCSD	94	98
Limits:	28-152	52-131

Analysis Name: 19b Glycols by 8015B
Batch number: 112970039A

	Tetramethylene glycol
6441972	112
Blank	104
LCS	110
MS	110
MSD	114
Limits:	29-157

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13013 1271993 6441963-72

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 8850 (10%)	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-013-SA5DS-SB-4.0-5.0	10.18.11	0910	SOIL	NONE	2- 16 oz Jars	X	X	X	X	X	X	X	X													
SL-015-SA5DS-SB-3.5-4.5	10.18.11	1020	SOIL	NONE	2- 16 oz Jars	X	X	X	X	X	X	X	X													
SL-020-SA7-SB-4.5	10.18.11	1220	SOIL	NONE	2-Encores										X											
SL-020-SA7-SB-4.0-5.0	10.18.11	1223	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X					X	X	X	X		*Pls use jar for SVOCs & PCBs
SL-020-SA7-SB-9.5	10.18.11	1433	SOIL	NONE	2-Encores										X											
SL-020-SA7-SB-9.0-10.0	10.18.11	1444	SOIL	NONE	1-SS Sleeve			X	X																	
SL-020-SA7-SB-9.0-10.0	10.18.11	1444	SOIL	NONE	2- 16 oz Jars	X	X			X	X	X	X			X					X	X	X	X		
SL-140-SA7-SB-3.5	10.18.11	0955	SOIL	NONE	2-Encores										X											
SL-140-SA7-SB-3.0-4.0	10.18.11	0950	SOIL	NONE	1-SS Sleeve			X	X																	
SL-140-SA7-SB-3.0-4.0	10.18.11	0950	SOIL	NONE	2- 16 oz Jars	X	X			X	X	X	X			X					X	X	X	X		
EB-SA7-SB-101811	10.18.11	1400	WATER	NONE	1-1 L Amber														X							HGL ASTM II WATER-HA crew
TB-101811	10.18.11	0800	WATER	NONE	1-1 L Amber														X							
TB-101811	10.18.11	0800	SOIL	NONE	1-4 oz Jar														X							
TB-101811	10.18.11	0800	WATER	NONE	2-40 mL Vials										X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/18/2011 / 1630	10/19/11 0910	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8767 9858 6780, 6791, 5165	

13013 1271993 6441963-72

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
EB-SA5DS-SB-101811	10.18.11	1400	WATER	NONE	10-1 liter ambers			X	X	X						X			X	X		X			X	
EB-SA5DS-SB-101811	10.18.11	1400	WATER	NONE	1-500 mL poly		X				X	X	X													
EB-SA5DS-SB-101811	10.18.11	1400	WATER	HNO3	1-500 mL poly	X																				
EB-SA5DS-SB-101811	10.18.11	1400	WATER	NaOH	1-500 mL poly																X					DPT EB
EB-SA5DS-SB-101811	10.18.11	1400	WATER	NONE	1-250 mL glass													X								
EB-SA5DS-SB-101811	10.18.11	1400	WATER	HCL	11-40 mL vials										X									X		
EB-SA5DS-SB-101811	10.18.11	1400	WATER	NONE	4-40 mL vials												X						X			

Relinquished by: (Signature) — **Date/Time** 10/18/2011 / 1630 — **Received for Laboratory by: (Signature)** 10/19/11 0710

Received by: (Signature) — **Date/Time** — **Airbill No.(s)** 8767 9858 6780, 6791, 5165

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

October 31, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/19/2011
Group Number: 1271995
SDG: DX149
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-013-SA5DS-SB-4.0-5.0 Soil	6441984
SL-015-SA5DS-SB-3.5-4.5 Soil	6441985
SL-020-SA7-SB-4.0-5.0 Soil	6441986
SL-020-SA7-SB-9.0-10.0 Soil	6441987
SL-140-SA7-SB-3.0-4.0 Soil	6441988
EB-SA5DS-SB-101811 Water	6441989

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Dorothy M. Love

Dorothy M. Love
Group Leader

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-013-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DS-SB-4.0-5.0

LLI Sample # SW 6441984
LLI Group # 1271995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 09:10

Submitted: 10/19/2011 09:10
Reported: 10/31/2011 12:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD013 SDG#: DX149-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-013-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DS-SB-4.0-5.0

LLI Sample # SW 6441984
LLI Group # 1271995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 09:10

Submitted: 10/19/2011 09:10
Reported: 10/31/2011 12:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD013 SDG#: DX149-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0484 U	0.0484	1.10	1
11031	12378-PeCDD	40321-76-4	0.0766 JBQ	0.0315	5.48	1
11031	123478-HxCDD	39227-28-6	0.0251 JBQ	0.0250	5.48	1
11031	123678-HxCDD	57653-85-7	0.0758 J	0.0267	5.48	1
11031	123789-HxCDD	19408-74-3	0.113 JB	0.0254	5.48	1
11031	1234678-HpCDD	35822-46-9	0.263 JBQ	0.0256	5.48	1
11031	OCDD	3268-87-9	0.429 JB	0.0279	11.0	1
11031	2378-TCDF	51207-31-9	0.0307 JQ	0.0263	1.10	1
11031	12378-PeCDF	57117-41-6	0.0766 JBQ	0.0172	5.48	1
11031	23478-PeCDF	57117-31-4	0.0965 JBQ	0.0161	5.48	1
11031	123478-HxCDF	70648-26-9	0.0358 JBQ	0.0157	5.48	1
11031	123678-HxCDF	57117-44-9	0.0671 JB	0.0146	5.48	1
11031	123789-HxCDF	72918-21-9	0.0840 JBQ	0.0165	5.48	1
11031	234678-HxCDF	60851-34-5	0.0424 JB	0.0139	5.48	1
11031	1234678-HpCDF	67562-39-4	0.108 JB	0.0117	5.48	1
11031	1234789-HpCDF	55673-89-7	0.0406 JBQ	0.0169	5.48	1
11031	OCDF	39001-02-0	0.141 JBQ	0.0332	11.0	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	95	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	82	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-013-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DS-SB-4.0-5.0

LLI Sample # SW 6441984
LLI Group # 1271995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 09:10

Submitted: 10/19/2011 09:10
Reported: 10/31/2011 12:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD013 SDG#: DX149-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-013-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-013-SA5DS-SB-4.0-5.0

LLI Sample # SW 6441984
LLI Group # 1271995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 09:10

Submitted: 10/19/2011 09:10
Reported: 10/31/2011 12:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD013 SDG#: DX149-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11294002	10/25/2011 09:52	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11294002	10/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-015-SA5DS-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DS-SB-3.5-4.5

LLI Sample # SW 6441985
LLI Group # 1271995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 10:20

Submitted: 10/19/2011 09:10
Reported: 10/31/2011 12:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD015 SDG#: DX149-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-015-SA5DS-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DS-SB-3.5-4.5

LLI Sample # SW 6441985
LLI Group # 1271995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 10:20

Submitted: 10/19/2011 09:10
Reported: 10/31/2011 12:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD015 SDG#: DX149-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0480	JQ	0.0419	1.09	1
11031	12378-PeCDD	40321-76-4	0.176	JBQ	0.0423	5.44	1
11031	123478-HxCDD	39227-28-6	0.0750	JBQ	0.0280	5.44	1
11031	123678-HxCDD	57653-85-7	0.199	J	0.0290	5.44	1
11031	123789-HxCDD	19408-74-3	0.264	JBQ	0.0292	5.44	1
11031	1234678-HpCDD	35822-46-9	0.414	JBQ	0.0291	5.44	1
11031	OCDD	3268-87-9	2.44	JB	0.0239	10.9	1
11031	2378-TCDF	51207-31-9	0.0938	JQ	0.0325	1.09	1
11031	12378-PeCDF	57117-41-6	0.193	JBQ	0.0199	5.44	1
11031	23478-PeCDF	57117-31-4	0.182	JBQ	0.0192	5.44	1
11031	123478-HxCDF	70648-26-9	0.132	JBQ	0.0221	5.44	1
11031	123678-HxCDF	57117-44-9	0.117	JBQ	0.0199	5.44	1
11031	123789-HxCDF	72918-21-9	0.182	JBQ	0.0225	5.44	1
11031	234678-HxCDF	60851-34-5	0.0756	JBQ	0.0180	5.44	1
11031	1234678-HpCDF	67562-39-4	0.115	JB	0.0137	5.44	1
11031	1234789-HpCDF	55673-89-7	0.0561	JB	0.0195	5.44	1
11031	OCDF	39001-02-0	0.233	JB	0.0376	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	85	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	101	32 - 141
13C12-123678-HxCDD	104	28 - 130
13C12-123789-HxCDD	99	28 - 130
13C12-1234678-HpCDD	106	23 - 140
13C12-OCDD	118	17 - 157
13C12-2378-TCDF	85	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	96	28 - 136
13C12-123789-HxCDF	90	29 - 147
13C12-1234678-HpCDF	110	28 - 143
13C12-1234789-HpCDF	92	26 - 138
13C12-OCDF	100	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA5DS-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DS-SB-3.5-4.5

LLI Sample # SW 6441985
LLI Group # 1271995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 10:20

Submitted: 10/19/2011 09:10
Reported: 10/31/2011 12:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD015 SDG#: DX149-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-015-SA5DS-SB-3.5-4.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA5DS-SB-3.5-4.5

LLI Sample # SW 6441985
LLI Group # 1271995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 10:20

Submitted: 10/19/2011 09:10
Reported: 10/31/2011 12:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD015 SDG#: DX149-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11294002	10/25/2011 10:48	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11294002	10/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-020-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA7-SB-4.0-5.0

LLI Sample # SW 6441986
LLI Group # 1271995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 12:23

Submitted: 10/19/2011 09:10
Reported: 10/31/2011 12:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD204 SDG#: DX149-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-020-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA7-SB-4.0-5.0

LLI Sample # SW 6441986
LLI Group # 1271995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 12:23

Submitted: 10/19/2011 09:10
Reported: 10/31/2011 12:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD204 SDG#: DX149-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.141	JQ	0.0460	1.03	1
11031	12378-PeCDD	40321-76-4	0.250	JBQ	0.0416	5.15	1
11031	123478-HxCDD	39227-28-6	0.0621	JB	0.0356	5.15	1
11031	123678-HxCDD	57653-85-7	0.313	JQ	0.0347	5.15	1
11031	123789-HxCDD	19408-74-3	0.199	JB	0.0343	5.15	1
11031	1234678-HpCDD	35822-46-9	3.76	JB	0.0446	5.15	1
11031	OCDD	3268-87-9	41.7	B	0.0458	10.3	1
11031	2378-TCDF	51207-31-9	0.0709	J	0.0483	1.03	1
11031	12378-PeCDF	57117-41-6	0.375	JBQ	0.0292	5.15	1
11031	23478-PeCDF	57117-31-4	0.405	JBQ	0.0290	5.15	1
11031	123478-HxCDF	70648-26-9	0.456	JB	0.0345	5.15	1
11031	123678-HxCDF	57117-44-9	0.130	JB	0.0304	5.15	1
11031	123789-HxCDF	72918-21-9	0.0967	JBQ	0.0334	5.15	1
11031	234678-HxCDF	60851-34-5	0.151	JB	0.0298	5.15	1
11031	1234678-HpCDF	67562-39-4	0.954	JB	0.0232	5.15	1
11031	1234789-HpCDF	55673-89-7	0.112	JBQ	0.0358	5.15	1
11031	OCDF	39001-02-0	1.73	JB	0.0436	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	104	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	96	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	87	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-020-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA7-SB-4.0-5.0

LLI Sample # SW 6441986
LLI Group # 1271995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 12:23

Submitted: 10/19/2011 09:10
Reported: 10/31/2011 12:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD204 SDG#: DX149-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-020-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA7-SB-4.0-5.0

LLI Sample # SW 6441986
LLI Group # 1271995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 12:23

Submitted: 10/19/2011 09:10
Reported: 10/31/2011 12:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD204 SDG#: DX149-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11294002	10/25/2011 14:48	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11294002	10/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-020-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA7-SB-9.0-10.0

LLI Sample # SW 6441987
LLI Group # 1271995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 14:44

Submitted: 10/19/2011 09:10
Reported: 10/31/2011 12:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD209 SDG#: DX149-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	14.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-020-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA7-SB-9.0-10.0

LLI Sample # SW 6441987
LLI Group # 1271995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 14:44

Submitted: 10/19/2011 09:10
Reported: 10/31/2011 12:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD209 SDG#: DX149-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0416 U	0.0416	1.14	1
11031	12378-PeCDD	40321-76-4	0.117 JBQ	0.0400	5.71	1
11031	123478-HxCDD	39227-28-6	0.0248 U	0.0248	5.71	1
11031	123678-HxCDD	57653-85-7	0.0385 JQ	0.0264	5.71	1
11031	123789-HxCDD	19408-74-3	0.0668 JB	0.0262	5.71	1
11031	1234678-HpCDD	35822-46-9	0.492 JB	0.0289	5.71	1
11031	OCDD	3268-87-9	2.78 JB	0.0346	11.4	1
11031	2378-TCDF	51207-31-9	0.0367 JQ	0.0328	1.14	1
11031	12378-PeCDF	57117-41-6	0.163 JB	0.0203	5.71	1
11031	23478-PeCDF	57117-31-4	0.145 JB	0.0192	5.71	1
11031	123478-HxCDF	70648-26-9	0.0784 JB	0.0196	5.71	1
11031	123678-HxCDF	57117-44-9	0.0799 JBQ	0.0179	5.71	1
11031	123789-HxCDF	72918-21-9	0.0791 JBQ	0.0195	5.71	1
11031	234678-HxCDF	60851-34-5	0.0421 JBQ	0.0162	5.71	1
11031	1234678-HpCDF	67562-39-4	0.124 JB	0.0144	5.71	1
11031	1234789-HpCDF	55673-89-7	0.0384 JB	0.0204	5.71	1
11031	OCDF	39001-02-0	0.188 JB	0.0387	11.4	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	95	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	84	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-020-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA7-SB-9.0-10.0

LLI Sample # SW 6441987
LLI Group # 1271995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 14:44

Submitted: 10/19/2011 09:10
Reported: 10/31/2011 12:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD209 SDG#: DX149-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-020-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-020-SA7-SB-9.0-10.0

LLI Sample # SW 6441987
LLI Group # 1271995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 14:44

Submitted: 10/19/2011 09:10
Reported: 10/31/2011 12:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD209 SDG#: DX149-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11294002	10/25/2011 15:44	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11294002	10/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-140-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-140-SA7-SB-3.0-4.0

LLI Sample # SW 6441988
LLI Group # 1271995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 09:50

Submitted: 10/19/2011 09:10
Reported: 10/31/2011 12:03

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

SD140 SDG#: DX149-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-140-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-140-SA7-SB-3.0-4.0

LLI Sample # SW 6441988
LLI Group # 1271995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 09:50

Submitted: 10/19/2011 09:10
Reported: 10/31/2011 12:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD140 SDG#: DX149-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0506 U	0.0506	1.08	1
11031	12378-PeCDD	40321-76-4	0.0517 JBQ	0.0343	5.38	1
11031	123478-HxCDD	39227-28-6	0.0354 JBQ	0.0225	5.38	1
11031	123678-HxCDD	57653-85-7	0.0432 JQ	0.0229	5.38	1
11031	123789-HxCDD	19408-74-3	0.0726 JBQ	0.0223	5.38	1
11031	1234678-HpCDD	35822-46-9	0.381 JBQ	0.0273	5.38	1
11031	OCDD	3268-87-9	1.58 JB	0.0281	10.8	1
11031	2378-TCDF	51207-31-9	0.0325 U	0.0325	1.08	1
11031	12378-PeCDF	57117-41-6	0.0563 JBQ	0.0177	5.38	1
11031	23478-PeCDF	57117-31-4	0.0830 JBQ	0.0178	5.38	1
11031	123478-HxCDF	70648-26-9	0.0184 U	0.0184	5.38	1
11031	123678-HxCDF	57117-44-9	0.0285 JBQ	0.0158	5.38	1
11031	123789-HxCDF	72918-21-9	0.0377 JBQ	0.0170	5.38	1
11031	234678-HxCDF	60851-34-5	0.0408 JBQ	0.0146	5.38	1
11031	1234678-HpCDF	67562-39-4	0.0982 JB	0.0129	5.38	1
11031	1234789-HpCDF	55673-89-7	0.0737 JB	0.0200	5.38	1
11031	OCDF	39001-02-0	0.131 JB	0.0389	10.8	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	93	23 - 140
13C12-OCDD	101	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	84	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-140-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-140-SA7-SB-3.0-4.0

LLI Sample # SW 6441988
LLI Group # 1271995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 09:50

Submitted: 10/19/2011 09:10
Reported: 10/31/2011 12:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD140 SDG#: DX149-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-140-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-140-SA7-SB-3.0-4.0

LLI Sample # SW 6441988
LLI Group # 1271995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 09:50

Submitted: 10/19/2011 09:10
Reported: 10/31/2011 12:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD140 SDG#: DX149-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11294002	10/25/2011 16:41	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11294002	10/21/2011 14:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11298162401B	10/25/2011 18:57	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA5DS-SB-101811 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA5DS-SB-101811

LLI Sample # WW 6441989
LLI Group # 1271995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 14:00

Submitted: 10/19/2011 09:10
Reported: 10/31/2011 12:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB18 SDG#: DX149-20EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.275	U	0.275	2.04	1
10915	12378-PeCDD	40321-76-4	0.332	JQ	0.230	10.2	1
10915	123478-HxCDD	39227-28-6	0.219	U	0.219	10.2	1
10915	123678-HxCDD	57653-85-7	0.269	JBQ	0.225	10.2	1
10915	123789-HxCDD	19408-74-3	0.264	JB	0.221	10.2	1
10915	1234678-HpCDD	35822-46-9	2.72	JB	0.215	10.2	1
10915	OCDD	3268-87-9	5.70	JB	0.291	20.4	1
10915	2378-TCDF	51207-31-9	0.173	U	0.173	2.04	1
10915	12378-PeCDF	57117-41-6	0.161	JBQ	0.139	10.2	1
10915	23478-PeCDF	57117-31-4	0.124	U	0.124	10.2	1
10915	123478-HxCDF	70648-26-9	0.500	JBQ	0.127	10.2	1
10915	123678-HxCDF	57117-44-9	0.297	JBQ	0.126	10.2	1
10915	123789-HxCDF	72918-21-9	0.364	JBQ	0.130	10.2	1
10915	234678-HxCDF	60851-34-5	0.370	JBQ	0.119	10.2	1
10915	1234678-HpCDF	67562-39-4	2.10	JBQ	0.118	10.2	1
10915	1234789-HpCDF	55673-89-7	0.403	JBQ	0.133	10.2	1
10915	OCDF	39001-02-0	1.39	JB	0.363	20.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	87	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	74	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA5DS-SB-101811 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA5DS-SB-101811

LLI Sample # WW 6441989
LLI Group # 1271995
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/18/2011 14:00

Submitted: 10/19/2011 09:10
Reported: 10/31/2011 12:03

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

DEB18 SDG#: DX149-20EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11297002	10/26/2011 05:10	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11297002	10/24/2011 09:45	Ginelle L Haines	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271995
Reported: 10/31/11 at 12:03 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11298162401B	Sample number(s): 6441984-6441988								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11294002	Sample number(s): 6441984-6441988								
2378-TCDD	0.0609 U	0.0609	1.00	ng/kg	107		67-158		
12378-PeCDD	0.0460 J	0.0441	5.00	ng/kg	105		70-142		
123478-HxCDD	0.0460 J	0.0278	5.00	ng/kg	100		70-164		
123678-HxCDD	0.0276 U	0.0276	5.00	ng/kg	94		76-134		
123789-HxCDD	0.0516 J	0.0279	5.00	ng/kg	102		64-162		
1234678-HpCDD	0.267 J	0.0317	5.00	ng/kg	100		70-140		
OCDD	0.461 J	0.0245	10.0	ng/kg	95		78-144		
2378-TCDF	0.0429 U	0.0429	1.00	ng/kg	97		75-158		
12378-PeCDF	0.0382 J	0.0220	5.00	ng/kg	102		80-134		
23478-PeCDF	0.0374 J	0.0203	5.00	ng/kg	96		68-160		
123478-HxCDF	0.0843 J	0.0241	5.00	ng/kg	97		72-134		
123678-HxCDF	0.0224 J	0.0214	5.00	ng/kg	98		84-130		
123789-HxCDF	0.0575 J	0.0180	5.00	ng/kg	98		78-130		
234678-HxCDF	0.0541 J	0.0162	5.00	ng/kg	96		70-156		
1234678-HpCDF	0.154 J	0.0152	5.00	ng/kg	92		82-122		
1234789-HpCDF	0.0824 J	0.0190	5.00	ng/kg	96		78-138		
OCDF	0.172 J	0.0394	10.0	ng/kg	97		63-170		
Batch number: 11297002	Sample number(s): 6441989								
2378-TCDD	0.534 U	0.534	2.00	pg/l	108		67-158		
12378-PeCDD	0.463 U	0.463	10.0	pg/l	109		70-142		
123478-HxCDD	0.338 U	0.338	10.0	pg/l	102		70-164		
123678-HxCDD	0.372 J	0.333	10.0	pg/l	99		76-134		
123789-HxCDD	0.989 J	0.344	10.0	pg/l	107		64-162		
1234678-HpCDD	3.78 J	0.374	10.0	pg/l	105		70-140		
OCDD	6.96 J	0.424	20.0	pg/l	104		78-144		
2378-TCDF	0.339 J	0.324	2.00	pg/l	97		75-158		
12378-PeCDF	0.262 J	0.229	10.0	pg/l	102		80-134		
23478-PeCDF	0.327 J	0.200	10.0	pg/l	99		68-160		
123478-HxCDF	0.588 J	0.209	10.0	pg/l	103		72-134		
123678-HxCDF	0.410 J	0.208	10.0	pg/l	105		84-130		
123789-HxCDF	0.976 J	0.229	10.0	pg/l	102		78-130		
234678-HxCDF	0.342 J	0.198	10.0	pg/l	99		70-156		
1234678-HpCDF	1.54 J	0.203	10.0	pg/l	98		82-122		
1234789-HpCDF	0.445 J	0.233	10.0	pg/l	104		78-138		
OCDF	2.32 J	0.508	20.0	pg/l	103		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271995
Reported: 10/31/11 at 12:03 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11298162401B	Sample number(s): 6441984-6441988					BKG: P437195			
Moisture Content by 160.3						11.8	11.7	1	20
Batch number: 11294002	Sample number(s): 6441984-6441988 UNSPK: P435711								
2378-TCDD	109	105	67-158	3	25				
12378-PeCDD	105	104	70-142	0	25				
123478-HxCDD	98	98	70-164	1	25				
123678-HxCDD	93	95	76-134	3	25				
123789-HxCDD	100	102	64-162	3	25				
1234678-HpCDD	98	99	70-140	3	25				
OCDD	96	95	78-144	1	25				
2378-TCDF	98	97	75-158	0	25				
12378-PeCDF	101	102	80-134	2	25				
23478-PeCDF	96	93	68-160	2	25				
123478-HxCDF	100	97	72-134	2	25				
123678-HxCDF	98	98	84-130	0	25				
123789-HxCDF	100	98	78-130	0	25				
234678-HxCDF	95	95	70-156	2	25				
1234678-HpCDF	90	90	82-122	1	25				
1234789-HpCDF	96	96	78-138	1	25				
OCDF	97	95	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11294002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6441984	72	74	70	76	79	78
6441985	85	87	83	88	96	90
6441986	77	78	70	78	76	82
6441987	74	77	69	76	84	82
6441988	74	77	65	77	81	82
Blank	86	88	61	70	88	96
MS	76	80	51	59	84	85
MSD	72	79	50	54	81	84
OPR	74	77	60	69	78	83
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6441984	92	76	82	76	87	88
6441985	110	92	100	89	101	104

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1271995
Reported: 10/31/11 at 12:03 PM

Surrogate Quality Control

6441986	96	78	87	82	83	85
6441987	90	80	84	79	89	89
6441988	95	78	84	80	89	88
Blank	92	93	100	92	92	97
MS	77	83	88	81	90	89
MSD	72	83	92	79	83	84
OPR	88	82	87	81	86	87
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6441984	84	89	95	72	78
6441985	99	106	118	85	92
6441986	84	92	104	77	84
6441987	86	89	95	76	82
6441988	86	93	101	73	84
Blank	96	108	118	82	92
MS	89	95	102	78	84
MSD	85	92	103	72	79
OPR	86	95	103	73	81
Limits:	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11297002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6441989	82	80	74	76	79	86
Blank	54	55	50	50	53	54
OPR	65	64	62	62	65	73
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6441989	73	76	74	77	78	83
Blank	51	52	49	52	52	57
OPR	65	63	62	62	66	68
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6441989	79	79	76	87	81
Blank	53	54	51	57	54
OPR	67	68	66	67	66
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1271995 6441984-89

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetrelin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS: *Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	SECONDARY FOR ALL LOCATIONS: **TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terpenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonel EPA 8270	Other Instructions and Notes
SL-013-SA5DS-SB-4.0-5.0	10.18.11	0910	SOIL	NONE	2- 16 oz Jars	X	X	X	X	X	X	X	X													
SL-015-SA5DS-SB-3.5-4.5	10.18.11	1020	SOIL	NONE	2- 16 oz Jars	X	X	X	X	X	X	X	X													
SL-020-SA7-SB-4.5	10.18.11	1220	SOIL	NONE	2-Encores										X											
SL-020-SA7-SB-4.0-5.0	10.18.11	1223	SOIL	NONE	3-16 oz Jars	X	X	X	X	X	X	X	X			X					X	X	X	X		*Pls use jar for SVOCs & PCBs
SL-020-SA7-SB-9.5	10.18.11	1433	SOIL	NONE	2-Encores										X											
SL-020-SA7-SB-9.0-10.0	10.18.11	1444	SOIL	NONE	1-SS Sleeve			X	X																	
SL-020-SA7-SB-9.0-10.0	10.18.11	1444	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X					X	X	X	X		
SL-140-SA7-SB-3.5	10.18.11	0955	SOIL	NONE	2-Encores										X											
SL-140-SA7-SB-3.0-4.0	10.18.11	0950	SOIL	NONE	1-SS Sleeve			X	X																	
SL-140-SA7-SB-3.0-4.0	10.18.11	0950	SOIL	NONE	2- 16 oz Jars	X	X			X	X	X	X			X					X	X	X	X		
EB-SA7-SB-101811	10.18.11	1400	WATER	NONE	1-1 L Amber														X							HGL ASTM II WATER-HA crew
TB-101811	10.18.11	0800	WATER	NONE	1-1 L Amber														X							
TB-101811	10.18.11	0800	SOIL	NONE	1-4 oz Jar														X							
TB-101811	10.18.11	0800	WATER	NONE	2-40 mL Vials										X											

Relinquished by: (*Signature*) — Date/Time: 10/18/2011 / 1630

Received for Laboratory by: (*Signature*) — 10/19/11 0910

Received by: (*Signature*) — Date/Time

Airbill No.(s): 8767 9858 6780, 6791, 5165

Laboratory: Lancaster Laboratories, Inc.

13013 1271995 6441984-89

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 5 (SA5) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS										SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6860 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	
EB-SA5DS-SB-101811	10.18.11	1400	WATER	NONE	10-1 liter ambers			X	X	X						X			X	X		X			X	
EB-SA5DS-SB-101811	10.18.11	1400	WATER	NONE	1-500 mL poly		X				X	X	X													
EB-SA5DS-SB-101811	10.18.11	1400	WATER	HNO3	1-500 mL poly	X																				
EB-SA5DS-SB-101811	10.18.11	1400	WATER	NaOH	1-500 mL poly																X					DPT EB
EB-SA5DS-SB-101811	10.18.11	1400	WATER	NONE	1-250 mL glass													X								
EB-SA5DS-SB-101811	10.18.11	1400	WATER	HCL	11-40 mL vials										X									X		
EB-SA5DS-SB-101811	10.18.11	1400	WATER	NONE	4-40 mL vials												X						X			

Relinquished by: (Signature) | **Date/Time** 10/18/2011 / 1630 | **Received for Laboratory by: (Signature)** 10/19/11 0910

Received by: (Signature) | **Date/Time** | **Airbill No.(s)** 8767 9858 6780, 6791, 5165

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 18, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/20/2011
Group Number: 1272257
SDG: DE272
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-016-SA5DS-SB-4.0-5.0 Soil	6443490
SL-143-SA7-SB-5.0-6.0 Soil	6443491
SL-143-SA7-SB-9.0-10.0 Soil	6443492
SL-142-SA7-SB-2.0-3.0 Soil	6443493
SL-142-SA7-SB-7.0-8.0 Soil	6443494
EB-SA7-SB-101911 Water	6443495
TB-101911 Water	6443496
TB-101911 Sand	6443497
TB-101911 Water	6443498
EB-SA7-SB-101911 Water	6443499

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-016-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DS-SB-4.0-5.0

LLI Sample # SW 6443490
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 09:42

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7201 SDG#: DE272-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1
04688	Phenol	108-95-2	18	U	18	180		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-016-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DS-SB-4.0-5.0

LLI Sample # SW 6443490
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 09:42

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7201 SDG#: DE272-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,500		6.52	21.5		1
07914	Boron	7440-42-8	2.00	J	0.388	5.39		1
01650	Calcium	7440-70-2	3,090		2.69	21.5		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-016-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DS-SB-4.0-5.0

LLI Sample # SW 6443490
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 09:42

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7201 SDG#: DE272-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	27,000		2.81	21.5		1
01656	Lithium	7439-93-2	19.9		0.67	2.2		1
01657	Magnesium	7439-95-4	5,280		0.474	10.8		1
06958	Manganese	7439-96-5	303		0.0388	0.539		1
10145	Phosphorus	7723-14-0	432		0.377	10.8		1
01662	Potassium	7440-09-7	1,690		12.2	53.9		1
01667	Sodium	7440-23-5	110		6.41	108		1
07968	Strontium	7440-24-6	27.5		0.0269	0.539		1
06969	Tin	7440-31-5	2.95	J	0.345	10.8		1
06970	Titanium	7440-32-6	1,480		0.0765	1.08		1
10146	Zirconium	7440-67-7	13.0		0.496	5.39		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.243		0.0797	0.215		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.58		0.0862	0.431		2
06126	Barium	7440-39-3	65.0		0.114	0.431		2
06127	Beryllium	7440-41-7	0.712		0.0172	0.108		2
06128	Cadmium	7440-43-9	0.119		0.0474	0.108		2
06131	Chromium	7440-47-3	36.8		0.129	0.431		2
06132	Cobalt	7440-48-4	6.94		0.0215	0.108		2
06133	Copper	7440-50-8	6.80		0.0862	0.431		2
06135	Lead	7439-92-1	5.59		0.0110	0.215		2
06138	Molybdenum	7439-98-7	0.538		0.0539	0.108		2
06139	Nickel	7440-02-0	12.6		0.108	0.431		2
06141	Selenium	7782-49-2	0.154	J	0.0625	0.431		2
06142	Silver	7440-22-4	0.0268	J	0.0153	0.108		2
06145	Thallium	7440-28-0	0.222		0.0323	0.108		2
06148	Vanadium	7440-62-2	66.2		0.0237	0.108		2
06149	Zinc	7440-66-6	50.7		0.603	3.23		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	U	0.0073	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.87	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.6		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.56	J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	

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Sample Description: **SL-016-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DS-SB-4.0-5.0

LLI Sample # SW 6443490
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 09:42

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7201 SDG#: DE272-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.00	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.1	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11295SLA026	10/26/2011	20:00	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11295SLC026	10/25/2011	11:11	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11295SLC026	10/24/2011	11:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11295SLA026	10/24/2011	10:05	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112970027A	10/31/2011	22:38	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112970027A	10/25/2011	12:00	Olivia I Santiago	1
01643	Aluminum	SW-846 6010B	1	112975708004	10/25/2011	14:30	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112975708004	10/25/2011	14:30	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112975708004	10/25/2011	14:30	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112975708004	10/25/2011	14:30	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112975708004	10/25/2011	14:30	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112975708004	10/25/2011	14:30	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112975708004	10/25/2011	14:30	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112975708004	10/25/2011	14:30	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112975708004	10/25/2011	14:30	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112975708004	10/25/2011	14:30	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112975708004	10/25/2011	14:30	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112975708004	10/25/2011	14:30	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112975708004	10/25/2011	14:30	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112975708004	10/25/2011	14:30	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112971026002A	10/26/2011	04:58	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026002A	10/26/2011	04:58	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026002D	10/26/2011	04:58	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026002A	10/26/2011	04:58	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026002A	10/26/2011	04:58	Choon Y Tian	2

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-016-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DS-SB-4.0-5.0

LLI Sample # SW 6443490
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 09:42

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7201 SDG#: DE272-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112971026002A	10/26/2011 04:58	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026002A	10/26/2011 04:58	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026002A	10/26/2011 04:58	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026002A	10/26/2011 04:58	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026002C	10/26/2011 04:58	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026002A	10/26/2011 04:58	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026002B	10/26/2011 04:58	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026002A	10/26/2011 04:58	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026002A	10/26/2011 04:58	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026002A	10/26/2011 04:58	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026002A	10/26/2011 04:58	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711002	10/25/2011 16:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708004	10/24/2011 21:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026002	10/24/2011 21:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711002	10/25/2011 01:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11300621201A	10/28/2011 11:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621201A	11/03/2011 15:36	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11298243201A	10/26/2011 15:59	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11300621201A	10/27/2011 06:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621201A	10/25/2011 06:05	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039402B	10/27/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11298243201A	10/25/2011 09:10	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401A	10/28/2011 22:37	Lisa J Cooke	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-143-SA7-SB-5.0-6.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA7-SB-5.0-6.0

LLI Sample # SW 6443491
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 09:45

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7202 SDG#: DE272-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.5	U	7.5	9.0		1.05
06192	Benzene	71-43-2	0.11	U	0.11	4.5		1.05
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.5		1.05
06192	Bromochloromethane	74-97-5	0.37	U	0.37	4.5		1.05
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.5		1.05
06192	Bromoform	75-25-2	0.45	U	0.45	4.5		1.05
06192	Bromomethane	74-83-9	0.28	U	0.28	4.5		1.05
06192	2-Butanone	78-93-3	1.4	U	1.4	9.0		1.05
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.5		1.05
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.5		1.05
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.5		1.05
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.5		1.05
06192	Chlorobenzene	108-90-7	0.12	U	0.12	4.5		1.05
06192	Chloroethane	75-00-3	0.15	U	0.15	4.5		1.05
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34	U	0.34	4.5		1.05
06192	Chloroform	67-66-3	0.14	J	0.14	4.5		1.05
06192	Chloromethane	74-87-3	0.37	U	0.37	4.5		1.05
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.5		1.05
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.5		1.05
06192	Chlorotrifluoroethene	79-38-9	0.56	U	0.56	5.6		1.05
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.79	U	0.79	4.5		1.05
06192	Dibromochloromethane	124-48-1	0.22	U	0.22	4.5		1.05
06192	1,2-Dibromoethane	106-93-4	0.19	U	0.19	4.5		1.05
06192	Dibromomethane	74-95-3	0.27	U	0.27	4.5		1.05
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.5		1.05
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.5		1.05
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.5		1.05
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.5		1.05
06192	1,1-Dichloroethane	75-34-3	0.11	U	0.11	4.5		1.05
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.5		1.05
06192	1,1-Dichloroethene	75-35-4	0.44	U	0.44	4.5		1.05
06192	cis-1,2-Dichloroethene	156-59-2	0.21	U	0.21	4.5		1.05
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.5		1.05
06192	1,2-Dichloropropane	78-87-5	0.19	U	0.19	4.5		1.05
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.5		1.05
06192	2,2-Dichloropropane	594-20-7	0.19	U	0.19	4.5		1.05
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.5		1.05
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.5		1.05
06192	trans-1,3-Dichloropropene	10061-02-6	0.19	U	0.19	4.5		1.05
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.5		1.05
06192	Freon 113	76-13-1	0.12	U	0.12	4.5		1.05
06192	Freon 133a	75-88-7	0.56	U	0.56	5.6		1.05
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.5		1.05
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.0		1.05
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.5		1.05
06192	p-Isopropyltoluene	99-87-6	0.12	U	0.12	4.5		1.05
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.5		1.05
06192	4-Methyl-2-pentanone	108-10-1	0.44	U	0.44	9.0		1.05
06192	Methylene Chloride	75-09-2	0.78	J	0.27	4.5		1.05
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.5		1.05

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Sample Description: **SL-143-SA7-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA7-SB-5.0-6.0

LLI Sample # SW 6443491
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 09:45

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7202 SDG#: DE272-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.11	U	0.11	4.5		1.05
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12	U	0.12	4.5		1.05
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26	U	0.26	4.5		1.05
06192	Tetrachloroethene	127-18-4	0.22	U	0.22	4.5		1.05
06192	Toluene	108-88-3	0.21	J	0.09	4.5		1.05
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.5		1.05
06192	1,2,4-Trichlorobenzene	120-82-1	0.20	U	0.20	4.5		1.05
06192	1,1,1-Trichloroethane	71-55-6	0.22	U	0.22	4.5		1.05
06192	1,1,2-Trichloroethane	79-00-5	0.30	U	0.30	4.5		1.05
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.5		1.05
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.5		1.05
06192	1,2,3-Trichloropropane	96-18-4	0.37	U	0.37	4.5		1.05
06192	1,2,4-Trimethylbenzene	95-63-6	0.45	U	0.45	4.5		1.05
06192	1,3,5-Trimethylbenzene	108-67-8	0.11	U	0.11	4.5		1.05
06192	Vinyl Chloride	75-01-4	0.22	U	0.22	4.5		1.05
06192	m+p-Xylene	179601-23-1	0.19	U	0.19	4.5		1.05
06192	o-Xylene	95-47-6	0.19	U	0.19	4.5		1.05
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	6.5	U	6.5	20		30.64
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.7	U	17.7	35.4		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1

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Sample Description: **SL-143-SA7-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA7-SB-5.0-6.0

LLI Sample # SW 6443491
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 09:45

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7202 SDG#: DE272-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1

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Sample Description: **SL-143-SA7-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA7-SB-5.0-6.0

LLI Sample # SW 6443491
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 09:45

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7202 SDG#: DE272-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.3	U	6.3	19		1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.7		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.7		1
10138	Pyrene	129-00-0	0.70	U	0.70	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.3	J	0.2	1.2		27.11
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	64	U	64	130	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	43	U	43	130	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	85	U	85	260	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	85	U	85	260	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	43	U	43	130	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	43	U	43	130	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	43	U	43	130	10000000	1
10132	HMX	2691-41-0	110	U	110	320	10000000	1
10132	Nitrobenzene	98-95-3	43	U	43	130	10000000	1
10132	Nitroglycerin	55-63-0	850	U	850	2,600	10000000	1
10132	2-Nitrotoluene	88-72-2	85	U	85	130	10000000	1
10132	3-Nitrotoluene	99-08-1	110	U	110	130	10000000	1
10132	4-Nitrotoluene	99-99-0	85	U	85	130	10000000	1
10132	PETN	78-11-5	850	U	850	2,600	10000000	1
10132	RDX	121-82-4	53	U	53	130	10000000	1
10132	Tetryl	479-45-8	65	U	65	130	10000000	1

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Sample Description: **SL-143-SA7-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA7-SB-5.0-6.0

LLI Sample # SW 6443491
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 09:45

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7202 SDG#: DE272-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	43	U	43	130	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	43	U	43	130	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	640	U	640	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.67	J	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	1.0	J	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	3.8		0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	6.8		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3		1

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Sample Description: **SL-143-SA7-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA7-SB-5.0-6.0

LLI Sample # SW 6443491
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 09:45

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7202 SDG#: DE272-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	24,000		6.26	20.7		1
07914	Boron	7440-42-8	0.372	U	0.372	5.17		1
01650	Calcium	7440-70-2	2,750		2.58	20.7		1
01654	Iron	7439-89-6	23,200		2.70	20.7		1
01656	Lithium	7439-93-2	25.5		0.64	2.1		1
01657	Magnesium	7439-95-4	4,610		0.455	10.3		1
06958	Manganese	7439-96-5	285		0.0372	0.517		1
10145	Phosphorus	7723-14-0	192		0.362	10.3		1
01662	Potassium	7440-09-7	1,490		11.7	51.7		1
01667	Sodium	7440-23-5	95.7	J	6.15	103		1
07968	Strontium	7440-24-6	17.7		0.0258	0.517		1
06969	Tin	7440-31-5	2.77	J	0.331	10.3		1
06970	Titanium	7440-32-6	1,300		0.0734	1.03		1
10146	Zirconium	7440-67-7	3.80	J	0.476	5.17		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.154	J	0.0773	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.10		0.0835	0.418		2
06126	Barium	7440-39-3	113		0.111	0.418		2
06127	Beryllium	7440-41-7	1.14		0.0167	0.104		2
06128	Cadmium	7440-43-9	0.0555	J	0.0459	0.104		2
06131	Chromium	7440-47-3	24.6		0.125	0.418		2
06132	Cobalt	7440-48-4	7.74		0.0209	0.104		2
06133	Copper	7440-50-8	8.20		0.0835	0.418		2
06135	Lead	7439-92-1	7.87		0.0106	0.209		2
06138	Molybdenum	7439-98-7	1.24		0.0522	0.104		2
06139	Nickel	7440-02-0	14.8		0.104	0.418		2
06141	Selenium	7782-49-2	0.197	J	0.0606	0.418		2
06142	Silver	7440-22-4	0.0661	J	0.0148	0.104		2
06145	Thallium	7440-28-0	0.272		0.0313	0.104		2
06148	Vanadium	7440-62-2	48.5		0.0230	0.104		2
06149	Zinc	7440-66-6	58.8		0.585	3.13		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0081	J	0.0073	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.2		0.84	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.4	J	0.84	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	31.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.56	J	0.21	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-143-SA7-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA7-SB-5.0-6.0

LLI Sample # SW 6443491
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 09:45

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7202 SDG#: DE272-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.07		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.1		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-143-SA7-SB-5.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B112981AA	10/25/2011 16:25	Chelsea B Eastep	1.05
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E112981AA	10/25/2011 10:45	Jason M Long	30.64
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201129325922	10/20/2011 16:56	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201129325922	10/20/2011 17:09	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201129325922	10/20/2011 17:09	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201129325922	10/20/2011 16:56	Larry E Bevins	n.a.
11622	21a NDMA by 1625C	EPA 1625C	1	11298SLB026	11/02/2011 22:40	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11295SLA026	10/26/2011 21:16	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11295SLC026	10/25/2011 11:43	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11298SLB026	10/26/2011 02:00	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11295SLC026	10/24/2011 11:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11295SLA026	10/24/2011 10:05	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11299A16A	10/26/2011 20:36	Laura M Krieger	27.11
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201129325922	10/20/2011 16:55	Larry E Bevins	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	113020012A	11/02/2011 00:24	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112980025A	10/27/2011 23:15	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112970027A	10/31/2011 23:34	Jessica L Miller	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-143-SA7-SB-5.0-6.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA7-SB-5.0-6.0

LLI Sample # SW 6443491
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 09:45

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7202 SDG#: DE272-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112970027A	10/25/2011 12:00	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112980025A	10/27/2011 13:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	113020012A	10/31/2011 09:40	Kerrie A Freeburn	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112930033A	10/20/2011 22:03	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112980042A	10/25/2011 23:42	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112940009A	10/24/2011 22:26	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	113000011A	10/28/2011 22:26	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	113000011A	10/27/2011 18:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112940009A	10/21/2011 18:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112930033A	10/20/2011 20:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112980042A	10/25/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112975708004	10/25/2011 14:34	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112975708004	10/25/2011 14:34	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112975708004	10/25/2011 14:34	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112975708004	10/25/2011 14:34	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112975708004	10/25/2011 14:34	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112975708004	10/25/2011 14:34	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112975708004	10/25/2011 14:34	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112975708004	10/25/2011 14:34	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112975708004	10/25/2011 14:34	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112975708004	10/25/2011 14:34	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112975708004	10/25/2011 14:34	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112975708004	10/25/2011 14:34	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112975708004	10/25/2011 14:34	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112975708004	10/25/2011 14:34	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112971026002A	10/26/2011 05:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026002A	10/26/2011 05:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026002D	10/26/2011 05:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026002A	10/26/2011 05:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026002A	10/26/2011 05:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026002A	10/26/2011 05:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026002A	10/26/2011 05:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026002A	10/26/2011 05:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026002A	10/26/2011 05:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026002C	10/26/2011 05:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026002A	10/26/2011 05:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026002B	10/26/2011 05:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026002A	10/26/2011 05:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026002A	10/26/2011 05:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026002A	10/26/2011 05:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026002A	10/26/2011 05:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711002	10/25/2011 16:15	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708004	10/24/2011 21:53	Annamaria Stipkovits	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: **SL-143-SA7-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA7-SB-5.0-6.0

LLI Sample # SW 6443491
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 09:45

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7202 SDG#: DE272-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026002	10/24/2011 21:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711002	10/25/2011 01:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11300621201A	10/28/2011 12:04	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11300621201A	10/28/2011 12:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621201A	11/03/2011 16:39	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11298243201A	10/26/2011 16:12	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11300102201A	10/28/2011 08:35	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11300621201A	10/27/2011 06:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621201A	10/25/2011 06:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11300102201A	10/27/2011 10:15	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039402B	10/27/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11298243201A	10/25/2011 09:10	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11315162401A	11/11/2011 22:24	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
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Lancaster Laboratories

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Analysis Report

Sample Description: SL-143-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA7-SB-9.0-10.0

LLI Sample # SW 6443492
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 10:50

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7203 SDG#: DE272-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/kg		ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.7	U	7.7	9.2		1.09
06192	Benzene	71-43-2	0.12	U	0.12	4.6		1.09
06192	Bromobenzene	108-86-1	0.15	U	0.15	4.6		1.09
06192	Bromochloromethane	74-97-5	0.38	U	0.38	4.6		1.09
06192	Bromodichloromethane	75-27-4	0.09	U	0.09	4.6		1.09
06192	Bromoform	75-25-2	0.46	U	0.46	4.6		1.09
06192	Bromomethane	74-83-9	0.29	U	0.29	4.6		1.09
06192	2-Butanone	78-93-3	1.4	U	1.4	9.2		1.09
06192	n-Butylbenzene	104-51-8	0.14	U	0.14	4.6		1.09
06192	sec-Butylbenzene	135-98-8	0.07	U	0.07	4.6		1.09
06192	tert-Butylbenzene	98-06-6	0.18	U	0.18	4.6		1.09
06192	Carbon Tetrachloride	56-23-5	0.16	U	0.16	4.6		1.09
06192	Chlorobenzene	108-90-7	0.13	U	0.13	4.6		1.09
06192	Chloroethane	75-00-3	0.15	U	0.15	4.6		1.09
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.35	U	0.35	4.6		1.09
06192	Chloroform	67-66-3	0.15	J	0.14	4.6		1.09
06192	Chloromethane	74-87-3	0.38	U	0.38	4.6		1.09
06192	2-Chlorotoluene	95-49-8	0.16	U	0.16	4.6		1.09
06192	4-Chlorotoluene	106-43-4	0.16	U	0.16	4.6		1.09
06192	Chlorotrifluoroethene	79-38-9	0.58	U	0.58	5.8		1.09
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.81	U	0.81	4.6		1.09
06192	Dibromochloromethane	124-48-1	0.23	U	0.23	4.6		1.09
06192	1,2-Dibromoethane	106-93-4	0.20	U	0.20	4.6		1.09
06192	Dibromomethane	74-95-3	0.28	U	0.28	4.6		1.09
06192	1,2-Dichlorobenzene	95-50-1	0.10	U	0.10	4.6		1.09
06192	1,3-Dichlorobenzene	541-73-1	0.14	U	0.14	4.6		1.09
06192	1,4-Dichlorobenzene	106-46-7	0.18	U	0.18	4.6		1.09
06192	Dichlorodifluoromethane	75-71-8	0.14	U	0.14	4.6		1.09
06192	1,1-Dichloroethane	75-34-3	0.12	U	0.12	4.6		1.09
06192	1,2-Dichloroethane	107-06-2	0.17	U	0.17	4.6		1.09
06192	1,1-Dichloroethene	75-35-4	0.45	U	0.45	4.6		1.09
06192	cis-1,2-Dichloroethene	156-59-2	0.22	U	0.22	4.6		1.09
06192	trans-1,2-Dichloroethene	156-60-5	0.14	U	0.14	4.6		1.09
06192	1,2-Dichloropropane	78-87-5	0.20	U	0.20	4.6		1.09
06192	1,3-Dichloropropane	142-28-9	0.09	U	0.09	4.6		1.09
06192	2,2-Dichloropropane	594-20-7	0.20	U	0.20	4.6		1.09
06192	1,1-Dichloropropene	563-58-6	0.15	U	0.15	4.6		1.09
06192	cis-1,3-Dichloropropene	10061-01-5	0.18	U	0.18	4.6		1.09
06192	trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	4.6		1.09
06192	Ethylbenzene	100-41-4	0.07	U	0.07	4.6		1.09
06192	Freon 113	76-13-1	0.13	U	0.13	4.6		1.09
06192	Freon 133a	75-88-7	0.58	U	0.58	5.8		1.09
06192	Hexachlorobutadiene	87-68-3	0.16	U	0.16	4.6		1.09
06192	2-Hexanone	591-78-6	1.8	U	1.8	9.2		1.09
06192	Isopropylbenzene	98-82-8	0.07	U	0.07	4.6		1.09
06192	p-Isopropyltoluene	99-87-6	0.13	U	0.13	4.6		1.09
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24	U	0.24	4.6		1.09
06192	4-Methyl-2-pentanone	108-10-1	0.45	U	0.45	9.2		1.09
06192	Methylene Chloride	75-09-2	0.99	J	0.28	4.6		1.09
06192	n-Propylbenzene	103-65-1	0.08	U	0.08	4.6		1.09

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-143-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA7-SB-9.0-10.0

LLI Sample # SW 6443492
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 10:50

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7203 SDG#: DE272-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06192	Styrene	100-42-5	0.12	U	0.12	4.6		1.09
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13	U	0.13	4.6		1.09
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.27	U	0.27	4.6		1.09
06192	Tetrachloroethene	127-18-4	0.23	U	0.23	4.6		1.09
06192	Toluene	108-88-3	0.21	J	0.09	4.6		1.09
06192	1,2,3-Trichlorobenzene	87-61-6	0.16	U	0.16	4.6		1.09
06192	1,2,4-Trichlorobenzene	120-82-1	0.21	U	0.21	4.6		1.09
06192	1,1,1-Trichloroethane	71-55-6	0.23	U	0.23	4.6		1.09
06192	1,1,2-Trichloroethane	79-00-5	0.31	U	0.31	4.6		1.09
06192	Trichloroethene	79-01-6	0.17	U	0.17	4.6		1.09
06192	Trichlorofluoromethane	75-69-4	0.33	U	0.33	4.6		1.09
06192	1,2,3-Trichloropropane	96-18-4	0.38	U	0.38	4.6		1.09
06192	1,2,4-Trimethylbenzene	95-63-6	0.46	U	0.46	4.6		1.09
06192	1,3,5-Trimethylbenzene	108-67-8	0.12	U	0.12	4.6		1.09
06192	Vinyl Chloride	75-01-4	0.23	U	0.23	4.6		1.09
06192	m+p-Xylene	179601-23-1	0.20	U	0.20	4.6		1.09
06192	o-Xylene	95-47-6	0.20	U	0.20	4.6		1.09
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10326	1,4-Dioxane	123-91-1	6.3	U	6.3	19		29.83
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.4	U	17.4	34.9		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	71	U	71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1

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Sample Description: **SL-143-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA7-SB-9.0-10.0

LLI Sample # SW 6443492
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 10:50

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7203 SDG#: DE272-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	71	U	71	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U	0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19		1
10138	Chrysene	218-01-9	0.35	U	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7		1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19		1

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Sample Description: SL-143-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA7-SB-9.0-10.0

LLI Sample # SW 6443492
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 10:50

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7203 SDG#: DE272-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.4	J	6.3	19		1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.7		1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7		1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19		1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.7		1
10138	Pyrene	129-00-0	0.70	U	0.70	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.3	U	0.3	1.4		32.3
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	62	U	62	120	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	42	U	42	120	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	83	U	83	250	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	83	U	83	250	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	42	U	42	120	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	42	U	42	120	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	42	U	42	120	10000000	1
10132	HMX	2691-41-0	100	U	100	310	10000000	1
10132	Nitrobenzene	98-95-3	42	U	42	120	10000000	1
10132	Nitroglycerin	55-63-0	830	U	830	2,500	10000000	1
10132	2-Nitrotoluene	88-72-2	83	U	83	120	10000000	1
10132	3-Nitrotoluene	99-08-1	100	U	100	120	10000000	1
10132	4-Nitrotoluene	99-99-0	83	U	83	120	10000000	1
10132	PETN	78-11-5	830	U	830	2,500	10000000	1
10132	RDX	121-82-4	52	U	52	120	10000000	1
10132	Tetryl	479-45-8	64	U	64	120	10000000	1

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Sample Description: **SL-143-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA7-SB-9.0-10.0

LLI Sample # SW 6443492
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 10:50

Submitted: 10/20/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7203 SDG#: DE272-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10132	1,3,5-Trinitrobenzene	99-35-4	42	U	42	120	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	42	U	42	120	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	640	U	640	1,600		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	0.50	J	0.42	1.3		1
10199	EFH (C21-C30)	n.a.	2.3		0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	3.6		0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3		1

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Sample Description: **SL-143-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA7-SB-9.0-10.0

LLI Sample # SW 6443492
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 10:50

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7203 SDG#: DE272-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,100		6.29	20.8		1
07914	Boron	7440-42-8	0.975	J	0.374	5.20		1
01650	Calcium	7440-70-2	2,110		2.60	20.8		1
01654	Iron	7439-89-6	20,500		2.71	20.8		1
01656	Lithium	7439-93-2	28.5		0.64	2.1		1
01657	Magnesium	7439-95-4	4,030		0.457	10.4		1
06958	Manganese	7439-96-5	161		0.0374	0.520		1
10145	Phosphorus	7723-14-0	137		0.364	10.4		1
01662	Potassium	7440-09-7	1,250		11.7	52.0		1
01667	Sodium	7440-23-5	106		6.19	104		1
07968	Strontium	7440-24-6	15.8		0.0260	0.520		1
06969	Tin	7440-31-5	3.03	J	0.333	10.4		1
06970	Titanium	7440-32-6	1,220		0.0738	1.04		1
10146	Zirconium	7440-67-7	3.23	J	0.478	5.20		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.189	J	0.0762	0.206		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.25		0.0824	0.412		2
06126	Barium	7440-39-3	95.3		0.109	0.412		2
06127	Beryllium	7440-41-7	0.980		0.0165	0.103		2
06128	Cadmium	7440-43-9	0.0453	U	0.0453	0.103		2
06131	Chromium	7440-47-3	27.0		0.124	0.412		2
06132	Cobalt	7440-48-4	5.25		0.0206	0.103		2
06133	Copper	7440-50-8	7.13		0.0824	0.412		2
06135	Lead	7439-92-1	7.73		0.0105	0.206		2
06138	Molybdenum	7439-98-7	2.08		0.0515	0.103		2
06139	Nickel	7440-02-0	13.9		0.103	0.412		2
06141	Selenium	7782-49-2	0.223	J	0.0597	0.412		2
06142	Silver	7440-22-4	0.0815	J	0.0146	0.103		2
06145	Thallium	7440-28-0	0.239		0.0309	0.103		2
06148	Vanadium	7440-62-2	53.8		0.0227	0.103		2
06149	Zinc	7440-66-6	54.7		0.577	3.09		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	U	0.0073	0.104		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.5		0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.4	J	0.85	1.6		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.81	J	0.21	1.1		1

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Sample Description: **SL-143-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA7-SB-9.0-10.0

LLI Sample # SW 6443492
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 10:50

Submitted: 10/20/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E7203 SDG#: DE272-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9012B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.85		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.7		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-143-SA7-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B112981AA	10/25/2011 16:48	Chelsea B Eastep	1.09
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E112981AA	10/25/2011 11:05	Jason M Long	29.83
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201129325922	10/20/2011 17:00	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201129325922	10/20/2011 17:09	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201129325922	10/20/2011 17:09	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201129325922	10/20/2011 17:01	Larry E Bevins	n.a.
11622	21a NDMA by 1625C	EPA 1625C	1	11298SLB026	11/02/2011 23:37	Matthew S Woods	1
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11295SLA026	10/26/2011 21:41	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11295SLC026	10/25/2011 13:22	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11298SLB026	10/26/2011 02:00	Sherry L Morrow	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11295SLC026	10/24/2011 11:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11295SLA026	10/24/2011 10:05	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11299A16A	10/26/2011 21:14	Laura M Krieger	32.3
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201129325922	10/20/2011 17:00	Larry E Bevins	n.a.
10132	15a Energetics by 8330A	SW-846 8330A	1	113020012A	11/02/2011 02:31	James H Place	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	112980025A	10/27/2011 23:43	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112970027A	10/31/2011 23:53	Jessica L Miller	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-143-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA7-SB-9.0-10.0

LLI Sample # SW 6443492
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 10:50

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7203 SDG#: DE272-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112970027A	10/25/2011 12:00	Olivia I Santiago	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	112980025A	10/27/2011 13:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	113020012A	10/31/2011 09:40	Kerrie A Freeburn	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112930033A	10/20/2011 22:19	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112980042A	10/25/2011 23:55	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112940009A	10/24/2011 20:58	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	113000011A	10/28/2011 22:50	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	113000011A	10/27/2011 18:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112940009A	10/21/2011 18:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112930033A	10/20/2011 20:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112980042A	10/25/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112975708004	10/25/2011 14:38	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112975708004	10/25/2011 14:38	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112975708004	10/25/2011 14:38	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112975708004	10/25/2011 14:38	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112975708004	10/25/2011 14:38	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112975708004	10/25/2011 14:38	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112975708004	10/25/2011 14:38	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112975708004	10/25/2011 14:38	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112975708004	10/25/2011 14:38	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112975708004	10/25/2011 14:38	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112975708004	10/25/2011 14:38	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112975708004	10/25/2011 14:38	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112975708004	10/25/2011 14:38	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112975708004	10/25/2011 14:38	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112971026002A	10/26/2011 05:25	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026002A	10/26/2011 05:25	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026002D	10/26/2011 05:25	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026002A	10/26/2011 05:25	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026002A	10/26/2011 05:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026002A	10/26/2011 05:25	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026002A	10/26/2011 05:25	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026002A	10/26/2011 05:25	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026002A	10/26/2011 05:25	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026002C	10/26/2011 05:25	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026002A	10/26/2011 05:25	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026002B	10/26/2011 05:25	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026002A	10/26/2011 05:25	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026002A	10/26/2011 05:25	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026002A	10/26/2011 05:25	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026002A	10/26/2011 05:25	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711002	10/25/2011 16:16	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708004	10/24/2011 21:53	Annamaria Stipkovits	1

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Sample Description: **SL-143-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA7-SB-9.0-10.0

LLI Sample # SW 6443492
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 10:50

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7203 SDG#: DE272-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026002	10/24/2011 21:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711002	10/25/2011 01:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11300621201A	10/28/2011 12:19	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11300621201A	10/28/2011 12:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621201A	11/03/2011 17:21	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11298243201A	10/26/2011 16:19	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11300102201A	10/28/2011 08:41	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11300621201A	10/27/2011 06:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621201A	10/25/2011 06:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11300102201A	10/27/2011 10:15	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039402B	10/27/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11298243201A	10/25/2011 09:10	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11315162401A	11/11/2011 22:24	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-142-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA7-SB-2.0-3.0

LLI Sample # SW 6443493
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 15:15

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7204 SDG#: DE272-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	J	17	350		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1

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Sample Description: **SL-142-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-142-SA7-SB-2.0-3.0

LLI Sample # SW 6443493
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 15:15

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7204 SDG#: DE272-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.68	U	0.68	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.68	U	0.68	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.87	J	0.68	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.68	U	0.68	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	1.9		0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18		1
10138	Chrysene	218-01-9	0.85	J	0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Fluoranthene	206-44-0	1.1	J	0.68	1.7		1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	0.68	U	0.68	1.7		1
10138	Pyrene	129-00-0	0.89	J	0.68	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	J	0.2	1.1		26.32
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	9.5		1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1

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Sample Description: **SL-142-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-142-SA7-SB-2.0-3.0

LLI Sample # SW 6443493
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 15:15

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7204 SDG#: DE272-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	11		0.34	1.8		1
10225	PCB-1260	11096-82-5	3.9		0.41	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.6		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.6		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.56	J	0.42	1.2		1
10199	EFH (C15-C20)	n.a.	1.0	J	0.42	1.2		1
10199	EFH (C21-C30)	n.a.	5.2		0.42	1.2		1
10199	EFH (C30 - C40)	n.a.	9.1		0.42	1.2		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,800		6.17	20.4		1
07914	Boron	7440-42-8	1.61	J	0.367	5.10		1
01650	Calcium	7440-70-2	2,840		2.55	20.4		1
01654	Iron	7439-89-6	21,000		2.66	20.4		1
01656	Lithium	7439-93-2	30.7		0.63	2.0		1
01657	Magnesium	7439-95-4	4,800		0.449	10.2		1
06958	Manganese	7439-96-5	333		0.0367	0.510		1
10145	Phosphorus	7723-14-0	410		0.357	10.2		1
01662	Potassium	7440-09-7	2,990		11.5	51.0		1
01667	Sodium	7440-23-5	90.5	J	6.07	102		1
07968	Strontium	7440-24-6	20.3		0.0255	0.510		1
06969	Tin	7440-31-5	2.79	J	0.326	10.2		1
06970	Titanium	7440-32-6	1,220		0.0724	1.02		1
10146	Zirconium	7440-67-7	2.77	J	0.469	5.10		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-142-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-142-SA7-SB-2.0-3.0

LLI Sample # SW 6443493
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 15:15

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7204 SDG#: DE272-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.102 J	0.0755	0.204		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.42	0.0816	0.408		2
06126	Barium	7440-39-3	93.4	0.108	0.408		2
06127	Beryllium	7440-41-7	0.548	0.0163	0.102		2
06128	Cadmium	7440-43-9	0.148	0.0449	0.102		2
06131	Chromium	7440-47-3	17.6	0.122	0.408		2
06132	Cobalt	7440-48-4	5.56	0.0204	0.102		2
06133	Copper	7440-50-8	7.54	0.0816	0.408		2
06135	Lead	7439-92-1	5.27	0.0104	0.204		2
06138	Molybdenum	7439-98-7	0.523	0.0510	0.102		2
06139	Nickel	7440-02-0	10.5	0.102	0.408		2
06141	Selenium	7782-49-2	0.130 J	0.0592	0.408		2
06142	Silver	7440-22-4	0.0294 J	0.0145	0.102		2
06145	Thallium	7440-28-0	0.259	0.0306	0.102		2
06148	Vanadium	7440-62-2	34.2	0.0224	0.102		2
06149	Zinc	7440-66-6	54.9	0.571	3.06		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0069 U	0.0069	0.0985		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9	0.84	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4 U	9.4	31.2		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.31 J	0.21	1.0		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18 U	0.18	0.51		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.89	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	3.9	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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Sample Description: SL-142-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA7-SB-2.0-3.0

LLI Sample # SW 6443493
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 15:15

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7204 SDG#: DE272-04

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-142-SA7-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201129325922	10/20/2011 17:04	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201129325922	10/20/2011 17:09	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201129325922	10/20/2011 17:09	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201129325922	10/20/2011 17:05	Larry E Bevins	n.a.
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11295SLA026	10/26/2011 22:06	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11295SLC026	10/25/2011 13:56	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11295SLC026	10/24/2011 11:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11295SLA026	10/24/2011 10:05	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11299A16A	10/27/2011 17:10	Laura M Krieger	26.32
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201129325922	10/20/2011 17:05	Larry E Bevins	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112970027A	11/01/2011 00:12	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112970027A	10/25/2011 12:00	Olivia I Santiago	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112930033A	10/20/2011 22:35	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112980042A	10/26/2011 00:07	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112940009A	10/24/2011 22:04	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	113000011A	10/28/2011 23:14	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	113000011A	10/27/2011 18:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112940009A	10/21/2011 18:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112930033A	10/20/2011 20:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112980042A	10/25/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112975708004	10/25/2011 14:41	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112975708004	10/25/2011 14:41	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112975708004	10/25/2011 14:41	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112975708004	10/25/2011 14:41	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112975708004	10/25/2011 14:41	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112975708004	10/25/2011 14:41	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112975708004	10/25/2011 14:41	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112975708004	10/25/2011 14:41	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112975708004	10/25/2011 14:41	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112975708004	10/25/2011 14:41	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112975708004	10/25/2011 14:41	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112975708004	10/25/2011 14:41	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112975708004	10/25/2011 14:41	Eric L Eby	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-142-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA7-SB-2.0-3.0

LLI Sample # SW 6443493
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 15:15

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7204 SDG#: DE272-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	112975708004	10/25/2011 14:41	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112971026002A	10/26/2011 05:28	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026002A	10/26/2011 05:28	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026002D	10/26/2011 05:28	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026002A	10/26/2011 05:28	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026002A	10/26/2011 05:28	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026002A	10/26/2011 05:28	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026002A	10/26/2011 05:28	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026002A	10/26/2011 05:28	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026002A	10/26/2011 05:28	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026002C	10/26/2011 05:28	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026002A	10/26/2011 05:28	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026002B	10/26/2011 05:28	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026002A	10/26/2011 05:28	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026002A	10/26/2011 05:28	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026002A	10/26/2011 05:28	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026002A	10/26/2011 05:28	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711002	10/25/2011 16:20	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708004	10/24/2011 21:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026002	10/24/2011 21:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711002	10/25/2011 01:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11300621201A	10/28/2011 12:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621201A	11/03/2011 17:42	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11298243201A	10/26/2011 16:39	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11300102201A	10/28/2011 08:42	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11300621201A	10/27/2011 06:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621201A	10/25/2011 06:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11300102201A	10/27/2011 10:15	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039402B	10/27/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11298243201A	10/25/2011 09:10	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401A	10/28/2011 22:37	Lisa J Cooke	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-142-SA7-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA7-SB-7.0-8.0

LLI Sample # SW 6443494
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 15:45

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7205 SDG#: DE272-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	530		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U	180	530		1
04688	Benzyl alcohol	100-51-6	180	U	180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180		1
04688	4-Chloroaniline	106-47-8	70	U	70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U	70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	35	U	35	180		1
04688	4-Methylphenol	106-44-5	35	U	35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	35	U	35	180		1
04688	4-Nitroaniline	100-01-6	70	U	70	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	530		1
04688	Phenol	108-95-2	18	U	18	180		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-142-SA7-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-142-SA7-SB-7.0-8.0

LLI Sample # SW 6443494
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 15:45

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7205 SDG#: DE272-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	1.0	J	0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.77	J	0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	3.0		0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	J	0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	2.8		0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19		1
10138	Chrysene	218-01-9	1.9		0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	150		6.2	19		1
10138	Fluoranthene	206-44-0	2.2		0.69	1.7		1
10138	Fluorene	86-73-7	0.92	J	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19		1
10138	Phenanthrene	85-01-8	0.90	J	0.69	1.7		1
10138	Pyrene	129-00-0	1.4	J	0.69	1.7		1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		25
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	3.0	J	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-142-SA7-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-142-SA7-SB-7.0-8.0

LLI Sample # SW 6443494
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 15:45

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7205 SDG#: DE272-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	5.9		0.35	1.8		1
10225	PCB-1260	11096-82-5	1.6	J	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530		1
10501	Isopropanol	67-63-0	110	U	110	530		1
10501	Methanol	67-56-1	110	U	110	530		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11		1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11		1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	2.6		0.42	1.3		1
10199	EFH (C21-C30)	n.a.	10		0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	20		0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,000		6.14	20.3		1
07914	Boron	7440-42-8	0.916	J	0.366	5.08		1
01650	Calcium	7440-70-2	2,580		2.54	20.3		1
01654	Iron	7439-89-6	19,700		2.65	20.3		1
01656	Lithium	7439-93-2	25.4		0.63	2.0		1
01657	Magnesium	7439-95-4	3,850		0.447	10.2		1
06958	Manganese	7439-96-5	228		0.0366	0.508		1
10145	Phosphorus	7723-14-0	268		0.355	10.2		1
01662	Potassium	7440-09-7	2,300		11.5	50.8		1
01667	Sodium	7440-23-5	95.8	J	6.04	102		1
07968	Strontium	7440-24-6	16.2		0.0254	0.508		1
06969	Tin	7440-31-5	2.75	J	0.325	10.2		1
06970	Titanium	7440-32-6	1,050		0.0721	1.02		1
10146	Zirconium	7440-67-7	2.78	J	0.467	5.08		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-142-SA7-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA7-SB-7.0-8.0

LLI Sample # SW 6443494
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 15:45

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7205 SDG#: DE272-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0774 U	0.0774	0.209		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.35	0.0836	0.418		2
06126	Barium	7440-39-3	78.2	0.111	0.418		2
06127	Beryllium	7440-41-7	0.552	0.0167	0.105		2
06128	Cadmium	7440-43-9	0.128	0.0460	0.105		2
06131	Chromium	7440-47-3	14.6	0.125	0.418		2
06132	Cobalt	7440-48-4	4.48	0.0209	0.105		2
06133	Copper	7440-50-8	6.22	0.0836	0.418		2
06135	Lead	7439-92-1	8.15	0.0107	0.209		2
06138	Molybdenum	7439-98-7	0.645	0.0523	0.105		2
06139	Nickel	7440-02-0	8.55	0.105	0.418		2
06141	Selenium	7782-49-2	0.362 J	0.0606	0.418		2
06142	Silver	7440-22-4	0.0484 J	0.0148	0.105		2
06145	Thallium	7440-28-0	0.187	0.0314	0.105		2
06148	Vanadium	7440-62-2	28.7	0.0230	0.105		2
06149	Zinc	7440-66-6	52.3	0.585	3.14		2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0231 J	0.0070	0.0991		1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0	0.85	1.1		1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5 U	9.5	31.7		1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.49 J	0.21	1.0		1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.52		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.51	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.3	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-142-SA7-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-142-SA7-SB-7.0-8.0

LLI Sample # SW 6443494
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 15:45

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7205 SDG#: DE272-05

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-142-SA7-SB-5.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11295SLA026	10/26/2011 22:32	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11295SLC026	10/25/2011 14:28	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11295SLC026	10/24/2011 11:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11295SLA026	10/24/2011 10:05	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11299A16A	10/26/2011 21:52	Laura M Krieger	25
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201129325922	10/20/2011 17:07	Larry E Bevins	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201129325922	10/20/2011 17:07	Larry E Bevins	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112970027A	11/01/2011 00:30	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112970027A	10/25/2011 12:00	Olivia I Santiago	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112930033A	10/20/2011 22:52	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112980042A	10/26/2011 00:20	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112940009A	10/24/2011 22:48	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	113000011A	10/28/2011 23:38	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	113000011A	10/27/2011 18:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112940009A	10/21/2011 18:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112930033A	10/20/2011 20:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112980042A	10/25/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112975708004	10/25/2011 14:45	Eric L Eby	1
07914	Boron	SW-846 6010B	1	112975708004	10/25/2011 14:45	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	112975708004	10/25/2011 14:45	Eric L Eby	1
01654	Iron	SW-846 6010B	1	112975708004	10/25/2011 14:45	Eric L Eby	1
01656	Lithium	SW-846 6010B	1	112975708004	10/25/2011 14:45	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	112975708004	10/25/2011 14:45	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	112975708004	10/25/2011 14:45	Eric L Eby	1
10145	Phosphorus	SW-846 6010B	1	112975708004	10/25/2011 14:45	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	112975708004	10/25/2011 14:45	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	112975708004	10/25/2011 14:45	Eric L Eby	1
07968	Strontium	SW-846 6010B	1	112975708004	10/25/2011 14:45	Eric L Eby	1
06969	Tin	SW-846 6010B	1	112975708004	10/25/2011 14:45	Eric L Eby	1
06970	Titanium	SW-846 6010B	1	112975708004	10/25/2011 14:45	Eric L Eby	1
10146	Zirconium	SW-846 6010B	1	112975708004	10/25/2011 14:45	Eric L Eby	1
06124	Antimony	SW-846 6020	1	112971026002A	10/26/2011 05:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026002A	10/26/2011 05:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026002D	10/26/2011 05:31	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026002A	10/26/2011 05:31	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-142-SA7-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-142-SA7-SB-7.0-8.0

LLI Sample # SW 6443494
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 15:45

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7205 SDG#: DE272-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112971026002A	10/26/2011 05:31	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026002A	10/26/2011 05:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026002A	10/26/2011 05:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026002A	10/26/2011 05:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026002A	10/26/2011 05:31	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026002C	10/26/2011 05:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026002A	10/26/2011 05:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026002B	10/26/2011 05:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026002A	10/26/2011 05:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026002A	10/26/2011 05:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026002A	10/26/2011 05:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026002A	10/26/2011 05:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711002	10/25/2011 16:21	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708004	10/24/2011 21:53	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026002	10/24/2011 21:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711002	10/25/2011 01:40	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11300621201A	10/28/2011 12:48	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621201A	11/03/2011 18:03	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11298243201A	10/26/2011 16:52	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11300102201A	10/28/2011 08:43	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11300621201A	10/27/2011 06:55	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621201A	10/25/2011 06:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11300102201A	10/27/2011 10:15	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039402B	10/27/2011 10:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11298243201A	10/25/2011 09:10	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401A	10/28/2011 22:37	Lisa J Cooke	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: **EB-SA7-SB-101911 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-101911

LLI Sample # WW 6443495
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 14:30

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7206 SDG#: DE272-06EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/l**	**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	3.66	0.527	1.05		1

N-nitrosodimethylamine was detected in the method blank at a concentration of .887 ng/l. The blank value was not subtracted from the analytical result. Sufficient sample was unavailable to repeat the analysis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11297WAC026	11/02/2011 18:54	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11297WAC026	10/24/2011 14:20	Wanda F Oswald	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-101911 Water
SSFL Area IV Collocated Soil Sampling
TB-101911

LLI Sample # WW 6443496
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 08:00

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7207 SDG#: DE272-07TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/l	ng/l	ng/l	ng/l	
10962	N-Nitrosodimethylamine	62-75-9	0.860 J	0.495	0.990		1

N-nitrosodimethylamine was detected in the method blank at a concentration of .887 ng/l. The blank value was not subtracted from the analytical result. Sufficient sample was unavailable to repeat the analysis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11297WAC026	11/02/2011 19:12	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11297WAC026	10/24/2011 14:20	Wanda F Oswald	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-101911 Sand**
SSFL Area IV Collocated Soil Sampling
TB-101911

LLI Sample # SW 6443497
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 08:00

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7208 SDG#: DE272-08TB

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	16.6	U	16.6	33.1		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.50	U	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11298SLB026	11/02/2011 23:56	Matthew S Woods	1
11630	NDMA Soil Microwave	SW-846 3546	1	11298SLB026	10/26/2011 02:00	Sherry L Morrow	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401A	10/28/2011 22:37	Lisa J Cooke	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: TB-101911 Water
SSFL Area IV Collocated Soil Sampling
TB-101911

LLI Sample # WW 6443498
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 08:00

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7209 SDG#: DE272-09TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-101911 Water**
SSFL Area IV Collocated Soil Sampling
TB-101911

LLI Sample # WW 6443498
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 08:00

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7209 SDG#: DE272-09TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		ug/l		ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC Volatiles	**TPH GRO SW-8015B**		ug/l		ug/l	ug/l	ug/l	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260B	SW-846 8260B	1	Y112992AA	10/26/2011	12:35	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E112972AA	10/24/2011	19:39	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E112972AA	10/24/2011	19:39	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y112992AA	10/26/2011	12:35	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11297B20A	10/25/2011	11:42	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11297B20A	10/25/2011	11:42	Marie D John	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA7-SB-101911 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-101911

LLI Sample # WW 6443499
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 14:30

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7210 SDG#: DE272-10EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB-SA7-SB-101911 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-101911

LLI Sample # WW 6443499
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 14:30

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7210 SDG#: DE272-10EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	5	J	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	4.55		0.500	1.00		1
N-Nitrosodimethylamine was detected in the method blank at a concentration of .887 ng/l. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and N-Nitrosodimethylamine was again detected in the re-analysis of the sample. The data reported here is from the initial extraction of the sample.								
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	20	U	20	60		1
04678	Benzoic acid	65-85-0	6	U	6	15		1
04678	Benzyl alcohol	100-51-6	5	U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	2-butoxy-Ethanol	111-76-2	50	U	50	50		1
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB-SA7-SB-101911 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-101911

LLI Sample # WW 6443499
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 14:30

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7210 SDG#: DE272-10EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	30		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	30		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	2-phenoxy-Ethanol	122-99-6	50	U	50	50		1
04678	Tetralin	119-64-2	5	U	5	5		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.011	U	0.011	0.053		1
10137	Acenaphthylene	208-96-8	0.011	U	0.011	0.053		1
10137	Anthracene	120-12-7	0.011	U	0.011	0.053		1
10137	Benzo(a)anthracene	56-55-3	0.011	U	0.011	0.053		1
10137	Benzo(a)pyrene	50-32-8	0.011	U	0.011	0.053		1

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Sample Description: **EB-SA7-SB-101911 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-101911

LLI Sample # WW 6443499
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 14:30

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7210 SDG#: DE272-10EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Benzo(b)fluoranthene	205-99-2	0.011	U	0.011	0.053		1
10137	Benzo(g,h,i)perylene	191-24-2	0.011	U	0.011	0.053		1
10137	Benzo(k)fluoranthene	207-08-9	0.011	U	0.011	0.053		1
10137	Butylbenzylphthalate	85-68-7	0.053	U	0.053	1.1		1
10137	Di-n-butylphthalate	84-74-2	0.27	J	0.053	1.1		1
10137	Chrysene	218-01-9	0.011	U	0.011	0.053		1
10137	Dibenz(a,h)anthracene	53-70-3	0.011	U	0.011	0.053		1
10137	Diethylphthalate	84-66-2	0.19	J	0.053	1.1		1
10137	Dimethylphthalate	131-11-3	0.053	U	0.053	1.1		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.16	J	0.053	1.1		1
10137	Fluoranthene	206-44-0	0.011	U	0.011	0.053		1
10137	Fluorene	86-73-7	0.011	U	0.011	0.053		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.011	U	0.011	0.053		1
10137	1-Methylnaphthalene	90-12-0	0.011	U	0.011	0.053		1
10137	2-Methylnaphthalene	91-57-6	0.011	U	0.011	0.053		1
10137	Naphthalene	91-20-3	0.039	J	0.032	0.053		1
10137	N-Nitrosodimethylamine	62-75-9	0.011	U	0.011	0.053		1
10137	Di-n-octylphthalate	117-84-0	0.096	J	0.053	1.1		1
10137	Phenanthrene	85-01-8	0.032	U	0.032	0.053		1
10137	Pyrene	129-00-0	0.011	U	0.011	0.053		1

The recoveries of dimethylphthalate and butylbenzylphthalate were outside of QC limits in the LCS/LCSD. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed between the two extractions. The data reported here is from the initial extracion of the sample.

Di-n-octylphthalate was detected in the method blank at a concentration of .094 ug/l. The blank value was not subtracted from the analytical result. Di-n-octylphthalate was not detected in the re-extraction of the sample.

Reporting limits were raised due to limited sample volume.

GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1

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Sample Description: **EB-SA7-SB-101911 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-101911

LLI Sample # WW 6443499
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 14:30

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7210 SDG#: DE272-10EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		ug/l		ug/l	ug/l	ug/l	
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	0.99		0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
HPLC Organics	**SW-846 8315A**		ug/l		ug/l	ug/l	ug/l	
04144	20b Formaldehyde 8315A	50-00-0	10	U	10	50		1
Pesticides/PCBs	**SW-846 8082**		ug/l		ug/l	ug/l	ug/l	
10227	Aroclor 5432	63496-31-1	0.11	U	0.11	0.55		1
10227	Aroclor 5442	12642-23-8	0.11	U	0.11	0.55		1
10227	Aroclor 5460	11126-42-4	0.11	U	0.11	0.55		1
10227	PCB-1016	12674-11-2	0.11	U	0.11	0.55		1
10227	PCB-1221	11104-28-2	0.11	U	0.11	0.55		1
10227	PCB-1232	11141-16-5	0.22	U	0.22	0.55		1
10227	PCB-1242	53469-21-9	0.11	U	0.11	0.55		1
10227	PCB-1248	12672-29-6	0.11	U	0.11	0.55		1
10227	PCB-1254	11097-69-1	0.11	U	0.11	0.55		1
10227	PCB-1260	11096-82-5	0.16	U	0.16	0.55		1
10227	PCB-1262	37324-23-5	0.22	U	0.22	0.55		1
10227	PCB-1268	11100-14-4	0.18	U	0.18	0.55		1
GC Miscellaneous	**SW-846 8015B**		ug/l		ug/l	ug/l	ug/l	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1

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Sample Description: **EB-SA7-SB-101911 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-101911

LLI Sample # WW 6443499
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 14:30

Submitted: 10/20/2011 09:15
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7210 SDG#: DE272-10EB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	20	U	20	200		1
08278	Ethylene glycol	107-21-1	20	U	20	200		1
08278	Propylene glycol	57-55-6	20	U	20	200		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.085	U	0.085	0.27		1
10319	o-Terphenyl	84-15-1	0.085	U	0.085	0.27		1
10319	p-Terphenyl	92-94-4	0.085	U	0.085	0.27		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.10	U	0.10	0.61		1
10365	EFH (C15-C20)	n.a.	0.10	U	0.10	0.61		1
10365	EFH (C21-C30)	n.a.	0.10	U	0.10	0.61		1
10365	EFH (C30 - C40)	n.a.	0.10	U	0.10	0.61		1
10365	EFH (C8-C11)	n.a.	0.10	U	0.10	0.61		1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0801	U	0.0801	0.200		1
08014	Boron	7440-42-8	0.0088	J	0.0022	0.0500		1
01750	Calcium	7440-70-2	0.0705	U	0.0705	0.200		1
01754	Iron	7439-89-6	0.0141	U	0.0141	0.200		1
01756	Lithium	7439-93-2	0.0076	U	0.0076	0.0200		1
01757	Magnesium	7439-95-4	0.0067	U	0.0067	0.100		1
07058	Manganese	7439-96-5	0.00044	U	0.00044	0.0050		1
10143	Phosphorus	7723-14-0	0.0055	J	0.0047	0.100		1
01762	Potassium	7440-09-7	0.0874	U	0.0874	0.500		1
01767	Sodium	7440-23-5	0.0647	U	0.0647	1.00		1
08068	Strontium	7440-24-6	0.00056	J	0.00022	0.0050		1
07069	Tin	7440-31-5	0.0043	U	0.0043	0.0200		1
07070	Titanium	7440-32-6	0.00063	J	0.00046	0.0100		1
10144	Zirconium	7440-67-7	0.0042	U	0.0042	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00042	U	0.00042	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00069	U	0.00069	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.00012	J	0.000080	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00027	U	0.00027	0.0020		1

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Sample Description: **EB-SA7-SB-101911 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-101911

LLI Sample # WW 6443499
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 14:30

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7210 SDG#: DE272-10EB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
06042	Silver	7440-22-4	0.000098 U	0.000098	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00018 U	0.00018	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000026 U	0.000026	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050 U	0.050	0.10		1
	EPA 314.0		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9012B		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
08255	16b Cyanide by 9012B	57-12-5	0.0050 U	0.0050	0.010		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	17b pH by 9040B	n.a.	5.5	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260B	SW-846 8260B	1	Y112992AA	10/26/2011 12:55	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E112972AA	10/24/2011 19:59	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E112972AA	10/24/2011 19:59	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y112992AA	10/26/2011 12:55	Nicholas R Rossi	1
10962	21b NDMA by 1625C	EPA 1625C	1	11297WAC026	11/02/2011 19:32	Matthew S Woods	1
04678	5b Semivolatiles by 8270C	SW-846 8270C	1	11297WAI026	10/26/2011 19:35	Holly Berry	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11297WAE026	10/25/2011 10:39	Joseph M Gambler	1

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Sample Description: **EB-SA7-SB-101911 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-101911

LLI Sample # WW 6443499
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 14:30

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E7210 SDG#: DE272-10EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00813	BNA Water Extraction	SW-846 3510C	1	11297WAI026	10/25/2011 09:00	Cynthia J Salvatori	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11297WAE026	10/24/2011 17:00	JoElla L Rice	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11297WAC026	10/24/2011 14:20	Wanda F Oswald	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11294B20A	10/24/2011 14:29	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	11294B20A	10/24/2011 14:29	Catherine J Schwarz	1
10131	15b Energetics by 8330A	SW-846 8330A	1	112930023A	10/27/2011 11:31	Michele D Hamilton	1
04144	20b Formaldehyde 8315A	SW-846 8315A	1	112930018A	10/21/2011 19:35	James H Place	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	112980001A	11/01/2011 03:57	Jessica L Miller	1
11117	PCB Waters Extraction	SW-846 3510C	1	112980001A	10/25/2011 16:55	JoElla L Rice	1
01013	Formaldehyde Extraction	SW-846 8315A	1	112930018A	10/21/2011 09:15	Denise L Trimby	1
11122	Energetics Extraction	SW-846 8330	1	112930023A	10/21/2011 09:30	Kerrie A Freeburn	1
06624	18b Alcohols by 8015B	SW-846 8015B	1	112930031A	10/21/2011 22:04	Elizabeth J Marin	1
08278	19b Glycols by 8015B	SW-846 8015B modified	1	112970039A	10/24/2011 23:22	Tyler O Griffin	1
10319	22b Terphenyls by 8015B	SW-846 8015B	1	112970009A	11/02/2011 11:46	Robert Brown	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	112940018A	10/25/2011 14:01	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	112940018A	10/22/2011 10:50	Denise L Trimby	1
10304	Terphenyls water prep	SW-846 3510C	1	112970009A	10/24/2011 00:00	Bronson L Cole	1
01743	Aluminum	SW-846 6010B	1	112991848003	10/28/2011 18:35	John P Hook	1
08014	Boron	SW-846 6010B	1	112991848003	11/01/2011 10:45	Eric L Eby	1
01750	Calcium	SW-846 6010B	1	112991848003	10/28/2011 18:35	John P Hook	1
01754	Iron	SW-846 6010B	1	112991848003	10/28/2011 18:35	John P Hook	1
01756	Lithium	SW-846 6010B	1	112991848003	10/28/2011 18:35	John P Hook	1
01757	Magnesium	SW-846 6010B	1	112991848003	11/01/2011 10:45	Eric L Eby	1
07058	Manganese	SW-846 6010B	1	112991848003	10/28/2011 18:35	John P Hook	1
10143	Phosphorus	SW-846 6010B	1	112991848003	10/28/2011 18:35	John P Hook	1
01762	Potassium	SW-846 6010B	1	112991848003	10/28/2011 18:35	John P Hook	1
01767	Sodium	SW-846 6010B	1	112991848003	10/28/2011 18:35	John P Hook	1
08068	Strontium	SW-846 6010B	1	112991848003	10/28/2011 18:35	John P Hook	1
07069	Tin	SW-846 6010B	1	112991848003	10/28/2011 18:35	John P Hook	1
07070	Titanium	SW-846 6010B	1	112991848003	10/28/2011 18:35	John P Hook	1
10144	Zirconium	SW-846 6010B	1	112991848003	10/28/2011 18:35	John P Hook	1
06024	Antimony	SW-846 6020	1	112996050005A	11/01/2011 06:29	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	112996050005A	11/01/2011 06:29	Choon Y Tian	1
06026	Barium	SW-846 6020	1	112996050005D	11/01/2011 06:29	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	112996050005A	11/01/2011 06:29	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	112996050005A	11/01/2011 06:29	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	112996050005A	11/01/2011 06:29	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	112996050005A	11/01/2011 06:29	Choon Y Tian	1
06033	Copper	SW-846 6020	1	112996050005A	11/01/2011 06:29	Choon Y Tian	1
06035	Lead	SW-846 6020	1	112996050005A	11/01/2011 06:29	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	112996050005C	11/01/2011 06:29	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	112996050005A	11/01/2011 06:29	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	112996050005B	11/01/2011 06:29	Choon Y Tian	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: EB-SA7-SB-101911 Water
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-101911

LLI Sample # WW 6443499
LLI Group # 1272257
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 14:30

Submitted: 10/20/2011 09:15
Reported: 11/18/2011 09:41

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7210 SDG#: DE272-10EB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06042	Silver	SW-846 6020	1	112996050005A	11/01/2011 06:29	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	112996050005A	11/01/2011 06:29	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	112996050005A	11/01/2011 06:29	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	112996050005A	11/01/2011 06:29	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	112945713004	10/25/2011 12:54	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	112991848003	10/27/2011 09:19	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	112996050005	10/27/2011 09:17	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	112945713004	10/21/2011 16:31	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11293196903C	10/21/2011 14:40	Ashley M Adams	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11293196903C	10/21/2011 14:40	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	3	11293281101A	11/15/2011 10:56	Elyse P Brunstetter	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11293281401A	10/20/2011 10:46	Elyse P Brunstetter	1
08255	16b Cyanide by 9012B	SW-846 9012B	1	11300117101B	10/28/2011 08:32	K Robert Caulfeild-James	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11300117101B	10/27/2011 10:15	Nancy J Shoop	1
00200	17b pH by 9040B	SW-846 9040B	1	11294020001A	10/21/2011 20:30	Luz M Groff	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272257
Reported: 11/18/11 at 09:41 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B112981AA	Sample number(s): 6443491-6443492									
Acetone	6.7	U	6.7	8.0	ug/kg	111	111	32-209	0	30
Benzene	0.10	U	0.10	4.0	ug/kg	111	106	80-120	5	30
Bromobenzene	0.13	U	0.13	4.0	ug/kg	101	97	79-120	4	30
Bromochloromethane	0.33	U	0.33	4.0	ug/kg	107	103	79-124	5	30
Bromodichloromethane	0.08	U	0.08	4.0	ug/kg	101	96	78-120	5	30
Bromoform	0.40	U	0.40	4.0	ug/kg	99	97	70-120	2	30
Bromomethane	0.25	U	0.25	4.0	ug/kg	91	86	32-162	6	30
2-Butanone	1.2	U	1.2	8.0	ug/kg	104	105	46-153	1	30
n-Butylbenzene	0.12	U	0.12	4.0	ug/kg	106	103	72-120	4	30
sec-Butylbenzene	0.06	U	0.06	4.0	ug/kg	107	102	75-120	5	30
tert-Butylbenzene	0.16	U	0.16	4.0	ug/kg	105	101	75-120	4	30
Carbon Tetrachloride	0.14	U	0.14	4.0	ug/kg	110	105	69-122	5	30
Chlorobenzene	0.11	U	0.11	4.0	ug/kg	107	102	80-120	5	30
Chloroethane	0.13	U	0.13	4.0	ug/kg	86	81	37-154	6	30
2-Chloroethyl Vinyl Ether	0.30	U	0.30	4.0	ug/kg	102	102	43-146	0	30
Chloroform	0.22	J	0.12	4.0	ug/kg	106	102	80-120	4	30
Chloromethane	0.33	U	0.33	4.0	ug/kg	101	103	54-132	2	30
2-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	103	99	78-120	4	30
4-Chlorotoluene	0.14	U	0.14	4.0	ug/kg	104	102	79-120	2	30
Chlorotrifluoroethene	0.50	U	0.50	5.0	ug/kg	122	112	22-131	9	30
1,2-Dibromo-3-chloropropane	0.70	U	0.70	4.0	ug/kg	93	93	58-120	0	30
Dibromochloromethane	0.20	U	0.20	4.0	ug/kg	101	97	77-120	4	30
1,2-Dibromoethane	0.17	U	0.17	4.0	ug/kg	103	101	80-120	2	30
Dibromomethane	0.24	U	0.24	4.0	ug/kg	105	99	80-120	6	30
1,2-Dichlorobenzene	0.09	U	0.09	4.0	ug/kg	103	100	79-120	4	30
1,3-Dichlorobenzene	0.12	U	0.12	4.0	ug/kg	102	97	78-120	5	30
1,4-Dichlorobenzene	0.16	U	0.16	4.0	ug/kg	102	98	79-120	4	30
Dichlorodifluoromethane	0.12	U	0.12	4.0	ug/kg	114	106	20-120	7	30
1,1-Dichloroethane	0.10	U	0.10	4.0	ug/kg	110	105	80-120	5	30
1,2-Dichloroethane	0.15	U	0.15	4.0	ug/kg	105	101	71-129	4	30
1,1-Dichloroethene	0.39	U	0.39	4.0	ug/kg	126*	119	73-123	6	30
cis-1,2-Dichloroethene	0.19	U	0.19	4.0	ug/kg	110	104	80-120	6	30
trans-1,2-Dichloroethene	0.12	U	0.12	4.0	ug/kg	117	111	79-120	6	30
1,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	107	104	80-120	3	30
1,3-Dichloropropane	0.08	U	0.08	4.0	ug/kg	104	101	80-120	2	30
2,2-Dichloropropane	0.17	U	0.17	4.0	ug/kg	110	104	72-123	5	30
1,1-Dichloropropene	0.13	U	0.13	4.0	ug/kg	113	108	77-120	5	30
cis-1,3-Dichloropropene	0.16	U	0.16	4.0	ug/kg	102	99	80-120	3	30
trans-1,3-Dichloropropene	0.17	U	0.17	4.0	ug/kg	99	97	77-120	3	30
Ethylbenzene	0.06	U	0.06	4.0	ug/kg	108	104	80-120	4	30
Freon 113	0.11	U	0.11	4.0	ug/kg	134*	126	61-126	6	30
Freon 133a	0.50	U	0.50	5.0	ug/kg	129*	123*	78-120	5	30
Hexachlorobutadiene	0.14	U	0.14	4.0	ug/kg	107	104	57-120	4	30
2-Hexanone	1.6	U	1.6	8.0	ug/kg	105	107	45-155	2	30
Isopropylbenzene	0.06	U	0.06	4.0	ug/kg	110	105	76-120	5	30

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272257
Reported: 11/18/11 at 09:41 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
p-Isopropyltoluene	0.11	U	0.11	4.0	ug/kg	107	102	75-120	5	30
Methyl Tertiary Butyl Ether	0.21	U	0.21	4.0	ug/kg	108	106	74-121	2	30
4-Methyl-2-pentanone	0.39	U	0.39	8.0	ug/kg	111	113	61-134	2	30
Methylene Chloride	0.76	J	0.24	4.0	ug/kg	111	106	76-124	5	30
n-Propylbenzene	0.07	U	0.07	4.0	ug/kg	106	102	77-120	4	30
Styrene	0.10	U	0.10	4.0	ug/kg	108	104	76-120	4	30
1,1,1,2-Tetrachloroethane	0.11	U	0.11	4.0	ug/kg	104	99	80-120	6	30
1,1,2,2-Tetrachloroethane	0.23	U	0.23	4.0	ug/kg	94	92	71-123	2	30
Tetrachloroethene	0.20	U	0.20	4.0	ug/kg	117	112	77-120	5	30
Toluene	0.08	U	0.08	4.0	ug/kg	108	102	80-120	5	30
1,2,3-Trichlorobenzene	0.14	U	0.14	4.0	ug/kg	100	97	64-120	4	30
1,2,4-Trichlorobenzene	0.18	U	0.18	4.0	ug/kg	101	97	68-120	3	30
1,1,1-Trichloroethane	0.20	U	0.20	4.0	ug/kg	104	99	71-125	5	30
1,1,2-Trichloroethane	0.27	U	0.27	4.0	ug/kg	105	101	80-120	5	30
Trichloroethene	0.15	U	0.15	4.0	ug/kg	109	104	80-120	5	30
Trichlorofluoromethane	0.29	U	0.29	4.0	ug/kg	110	103	58-133	6	30
1,2,3-Trichloropropane	0.33	U	0.33	4.0	ug/kg	95	95	71-123	0	30
1,2,4-Trimethylbenzene	0.40	U	0.40	4.0	ug/kg	104	100	79-120	4	30
1,3,5-Trimethylbenzene	0.10	U	0.10	4.0	ug/kg	105	101	78-120	4	30
Vinyl Chloride	0.20	U	0.20	4.0	ug/kg	110	105	53-120	5	30
m+p-Xylene	0.17	U	0.17	4.0	ug/kg	110	105	80-120	5	30
o-Xylene	0.17	U	0.17	4.0	ug/kg	106	104	80-120	3	30
Batch number: E112972AA	Sample number(s): 6443498-6443499									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	112		80-123		
Batch number: E112981AA	Sample number(s): 6443491-6443492									
1,4-Dioxane	5.0	U	5.0	15	ug/kg	94	90	70-130	4	30
Batch number: Y112992AA	Sample number(s): 6443498-6443499									
Acetone	6	U	6.	20	ug/l	83	64	49-234	26	30
Benzene	0.5	U	0.5	5	ug/l	93	92	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	88	95	80-120	7	30
Bromochloromethane	1	U	1.	5	ug/l	95	95	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	97	97	80-120	0	30
Bromoform	1	U	1.	5	ug/l	99	95	61-120	4	30
Bromomethane	1	U	1.	5	ug/l	101	106	44-120	5	30
2-Butanone	3	U	3.	10	ug/l	94	78	66-151	18	30
n-Butylbenzene	1	U	1.	5	ug/l	89	98	74-120	9	30
sec-Butylbenzene	1	U	1.	5	ug/l	91	100	78-120	9	30
tert-Butylbenzene	1	U	1.	5	ug/l	86	93	80-120	8	30
Carbon Tetrachloride	1	U	1.	5	ug/l	102	103	75-123	1	30
Chlorobenzene	0.8	U	0.8	5	ug/l	94	95	80-120	1	30
Chloroethane	1	U	1.	5	ug/l	104	111	49-129	7	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	107	106	56-129	0	30
Chloroform	0.8	U	0.8	5	ug/l	100	97	77-122	3	30
Chloromethane	1	U	1.	5	ug/l	101	112	60-129	11	30
2-Chlorotoluene	1	U	1.	5	ug/l	89	95	80-120	7	30
4-Chlorotoluene	1	U	1.	5	ug/l	89	96	80-120	7	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	87	86	38-136	1	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	92	97	56-126	5	30
Dibromochloromethane	1	U	1.	5	ug/l	98	96	80-120	1	30
1,2-Dibromoethane	1	U	1.	5	ug/l	95	93	80-120	2	30
Dibromomethane	1	U	1.	5	ug/l	98	95	80-120	3	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	90	95	80-120	6	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	90	95	80-120	6	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	91	96	80-120	5	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	89	93	47-120	5	30

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272257
Reported: 11/18/11 at 09:41 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,1-Dichloroethane	1	U	1.	5	ug/l	97	96	79-120	1	30
1,2-Dichloroethane	1	U	1.	5	ug/l	105	102	70-130	2	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	92	98	74-123	6	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	91	80-120	4	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	92	90	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	95	94	78-120	0	30
1,3-Dichloropropane	1	U	1.	5	ug/l	97	96	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	101	102	77-124	1	30
1,1-Dichloropropene	1	U	1.	5	ug/l	95	95	80-120	0	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	94	95	80-120	1	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	96	96	79-120	0	30
Ethylbenzene	0.8	U	0.8	5	ug/l	94	94	79-120	0	30
Freon 113	2	U	2.	10	ug/l	95	100	69-128	6	30
Freon 133a	2	U	2.	5	ug/l	91	93	77-120	2	30
Hexachlorobutadiene	2	U	2.	5	ug/l	75	86	58-120	14	30
2-Hexanone	3	U	3.	10	ug/l	99	94	65-136	5	30
Isopropylbenzene	1	U	1.	5	ug/l	95	96	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	92	101	80-120	9	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	96	94	76-120	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	94	91	70-121	2	30
Methylene Chloride	2	U	2.	5	ug/l	96	93	80-120	3	30
n-Propylbenzene	1	U	1.	5	ug/l	91	98	80-120	8	30
Styrene	1	U	1.	5	ug/l	94	93	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	97	96	80-120	1	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	86	90	71-120	4	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	98	102	80-121	3	30
Toluene	0.7	U	0.7	5	ug/l	91	92	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	76	97	65-120	24	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	80	93	67-120	15	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	87	89	75-127	2	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	95	93	80-120	2	30
Trichloroethene	1	U	1.	5	ug/l	96	97	80-120	1	30
Trichlorofluoromethane	2	U	2.	5	ug/l	99	102	64-129	3	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	92	100	80-120	8	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	91	100	74-120	9	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	92	100	75-120	8	30
Vinyl Chloride	1	U	1.	5	ug/l	96	101	65-125	5	30
m+p-Xylene	0.8	U	0.8	5	ug/l	94	94	80-120	0	30
o-Xylene	0.8	U	0.8	5	ug/l	92	91	80-120	0	30
Batch number: 11295SLA026	Sample number(s): 6443490-6443494									
Aniline	170 U		170.	500	ug/kg	63		20-115		
Benzidine	1,200 U		1,200.	3,300	ug/kg	43		15-121		
Benzoic acid	170 U		170.	500	ug/kg	85		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	93		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	95		73-114		
Carbazole	17	U	17.	170	ug/kg	101		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	100		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	42		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	92		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	87		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	85		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	71		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	92		72-112		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272257
Reported: 11/18/11 at 09:41 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	96		74-115		
Dibenzofuran	17	U	17.	170	ug/kg	93		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	85		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	82		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	83		74-106		
3,3'-Dichlorobenzidine	100	U	100.	330	ug/kg	33		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	97		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	95		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	100		83-120		
4,6-Dinitro-2-methylphenol	170	U	170.	500	ug/kg	77		46-120		
2,4-Dinitrophenol	330	U	330.	1,000	ug/kg	76		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	105		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	103		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	96		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	100		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	96		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	87		65-117		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	84		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	82		61-109		
Isophorone	17	U	17.	170	ug/kg	92		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	93		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	93		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	102		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	96		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	81		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	91		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	89		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	100		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	85		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	100		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	100		51-117		
Phenol	17	U	17.	170	ug/kg	96		58-112		
Tetralin	170	U	170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	90		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	97		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	101		78-111		
Batch number: 11295SLC026	Sample number(s): 6443490-6443494									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	89		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	81		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	88		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	93		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	86		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	91		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	106		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	94		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	86		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	86		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	94		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	104		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	87		68-125		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272257
Reported: 11/18/11 at 09:41 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dimethylphthalate	6.0	U	6.0	18	ug/kg	89		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	96		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	91		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	90		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	103		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	84		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	84		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	86		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	94		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	99		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	88		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	95		72-119		
Batch number: 11297WAC026	Sample number(s): 6443495-6443496,6443499									
N-Nitrosodimethylamine	0.887	J	0.500	1.00	ng/l	102	94	70-130	8	30
Batch number: 11297WAE026	Sample number(s): 6443499									
Acenaphthene	0.010	U	0.010	0.050	ug/l	96	101	74-109	5	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	93	95	70-110	2	30
Anthracene	0.010	U	0.010	0.050	ug/l	97	99	66-111	2	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	101	102	72-114	1	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	93	93	60-127	0	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	98	99	58-151	1	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	112	113	57-131	1	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	99	99	59-130	0	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	22*	21*	40-138	4	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	60	61	56-148	2	30
Chrysene	0.010	U	0.010	0.050	ug/l	100	102	76-116	1	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	111	111	55-134	1	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	48	47	37-148	2	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	10*	10*	40-119	2	30
Bis(2-Ethylhexyl)phthalate	0.050	U	0.050	1.0	ug/l	106	103	57-154	3	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	97	98	75-116	2	30
Fluorene	0.010	U	0.010	0.050	ug/l	101	101	75-114	0	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	109	110	53-158	1	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	92	93	71-117	0	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	91	92	75-115	1	30
Naphthalene	0.030	U	0.030	0.050	ug/l	92	93	72-109	1	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	64	65	36-89	1	30
Di-n-octylphthalate	0.094	J	0.050	1.0	ug/l	96	96	57-145	1	30
Phenanthrene	0.030	U	0.030	0.050	ug/l	94	96	76-111	2	30
Pyrene	0.010	U	0.010	0.050	ug/l	104	104	69-118	0	30
Batch number: 11297WAI026	Sample number(s): 6443499									
Aniline	1	U	1.	5	ug/l	74	78	38-116	5	30
Benzidine	20	U	20.	60	ug/l	52	48	34-117	7	30
Benzoic acid	6	U	6.	15	ug/l	44	47	10-69	8	30
Benzyl alcohol	5	U	5.	15	ug/l	84	88	66-97	5	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	95	101	75-115	5	30
2-butoxy-Ethanol	50	U	50.	50	ug/l					
Carbazole	1	U	1.	5	ug/l	99	101	75-120	2	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	101	102	70-123	1	30
4-Chloroaniline	1	U	1.	5	ug/l	63	59	24-128	6	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	99	102	74-124	3	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	88	95	77-108	8	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	84	93	62-127	10	30
2-Chloronaphthalene	2	U	2.	5	ug/l	72	75	54-132	3	30
2-Chlorophenol	1	U	1.	5	ug/l	95	100	71-114	5	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272257
Reported: 11/18/11 at 09:41 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	98	97	77-114	1	30
Dibenzofuran	1	U	1.	5	ug/l	95	95	75-117	0	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	81	86	55-118	7	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	78	85	61-111	8	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	79	84	53-119	6	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	58	57	37-117	1	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	103	103	77-117	0	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	98	97	72-110	1	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	103	106	70-130	3	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	104	108	65-126	4	30
2,4-Dinitrophenol	10	U	10.	30	ug/l	100	102	52-131	2	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	102	101	76-119	1	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	100	102	76-118	2	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	97	102	68-127	5	30
Hexachlorobenzene	1	U	1.	5	ug/l	97	100	75-119	4	30
Hexachlorobutadiene	1	U	1.	5	ug/l	85	87	57-124	3	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	56	54	36-118	3	30
Hexachloroethane	1	U	1.	5	ug/l	74	80	52-113	8	30
Isophorone	1	U	1.	5	ug/l	96	100	74-117	4	30
2-Methylphenol	1	U	1.	5	ug/l	92	98	58-110	7	30
4-Methylphenol	2	U	2.	5	ug/l	85	91	49-108	7	30
2-Nitroaniline	1	U	1.	5	ug/l	100	102	75-120	2	30
3-Nitroaniline	1	U	1.	5	ug/l	99	98	74-113	1	30
4-Nitroaniline	1	U	1.	5	ug/l	86	86	59-100	0	30
Nitrobenzene	1	U	1.	5	ug/l	93	98	75-109	6	30
2-Nitrophenol	1	U	1.	5	ug/l	98	99	76-118	1	30
4-Nitrophenol	10	U	10.	30	ug/l	57	54	16-78	6	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	86	93	69-110	8	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	90	94	67-136	4	30
Pentachlorophenol	3	U	3.	15	ug/l	111*	112*	53-110	1	30
Phenol	1	U	1.	5	ug/l	51	61	21-67	18	30
2-phenoxy-Ethanol	50	U	50.	50	ug/l					
Tetralin	5	U	5.	5	ug/l					
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	88	91	71-112	3	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	98	100	79-107	2	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	102	101	76-120	0	30
Batch number: 11298SLB026	Sample number(s): 6443491-6443492,6443497									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	97		70-130		
Batch number: 11294B20A	Sample number(s): 6443499									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 11297B20A	Sample number(s): 6443498									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 11299A16A	Sample number(s): 6443491-6443494									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	74	75	67-119	2	30
Batch number: 112930023A	Sample number(s): 6443499									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	110	100	80-120	10	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	98	95	80-120	3	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	93	93	50-122	0	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	93	93	50-122	0	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	100	99	72-117	1	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	94	92	80-120	2	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
HMX	0.65	U	0.65	2.0	ug/l	91	87	65-125	4	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272257
Reported: 11/18/11 at 09:41 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Nitrobenzene	0.20	U	0.20	0.60	ug/l	94	91	75-121	3	30
Nitroglycerin	5.2	U	5.2	15	ug/l	96	92	80-120	4	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	94	91	74-120	3	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	98	96	69-107	2	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	92	90	80-120	2	30
PETN	6.0	U	6.0	18	ug/l	100	100	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	89	86	70-125	3	30
Tetryl	0.40	U	0.40	0.60	ug/l	81	80	31-148	1	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	87	100	53-129	14	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	100	98	76-109	2	30
Batch number: 113020012A	Sample number(s): 6443491-6443492									
4-Amino-2,6-Dinitrotoluene	60	U	60.	120	ug/kg	107		80-120		
2-Amino-4,6-Dinitrotoluene	40	U	40.	120	ug/kg	104		80-120		
2,6-Diamino-4-nitrotoluene	80	U	80.	240	ug/kg	93	88	54-134	5	30
2,4-Diamino-6-nitrotoluene	80	U	80.	240	ug/kg	92	88	54-134	5	30
1,3-Dinitrobenzene	40	U	40.	120	ug/kg	107		51-171		
2,4-Dinitrotoluene	40	U	40.	120	ug/kg	99		72-135		
2,6-Dinitrotoluene	40	U	40.	120	ug/kg	103		80-120		
HMX	100 U		100.	300	ug/kg	90		74-130		
Nitrobenzene	40	U	40.	120	ug/kg	96		80-120		
Nitroglycerin	800 U		800.	2,400	ug/kg	94		80-120		
2-Nitrotoluene	80	U	80.	120	ug/kg	98		78-128		
3-Nitrotoluene	100 U		100.	120	ug/kg	102		73-127		
4-Nitrotoluene	80	U	80.	120	ug/kg	95		80-120		
PETN	800 U		800.	2,400	ug/kg	104		80-120		
RDX	50	U	50.	120	ug/kg	106		75-131		
Tetryl	61	U	61.	120	ug/kg	114		70-168		
1,3,5-Trinitrobenzene	40	U	40.	120	ug/kg	107		77-137		
2,4,6-Trinitrotoluene	40	U	40.	120	ug/kg	108		80-120		
Batch number: 112930018A	Sample number(s): 6443499									
20b Formaldehyde 8315A	10	U	10.	50	ug/l	92	96	69-130	4	30
Batch number: 112980025A	Sample number(s): 6443491-6443492									
20a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	113		80-126		
Batch number: 112970027A	Sample number(s): 6443490-6443494									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	73	70	36-106	5	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	72		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	92		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112980001A	Sample number(s): 6443499									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272257
Reported: 11/18/11 at 09:41 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Aroclor 5442	0.10	U	0.10	0.50	ug/l	64	62	35-84	3	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	90	90	51-128	0	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	100	104	56-135	4	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 112930031A	Sample number(s): 6443499									
Ethanol	200 U		200.	1,000	ug/l	100		78-116		
Isopropanol	200 U		200.	1,000	ug/l	100		75-125		
Methanol	200 U		200.	1,000	ug/l	104		76-122		
Batch number: 112930033A	Sample number(s): 6443491-6443494									
Ethanol	100 U		100.	500	ug/kg	95		71-129		
Isopropanol	100 U		100.	500	ug/kg	97		75-125		
Methanol	100 U		100.	500	ug/kg	92		68-129		
Batch number: 112970039A	Sample number(s): 6443499									
Diethylene glycol	20	U	20.	200	mg/l	105		67-126		
Ethylene glycol	20	U	20.	200	mg/l	80		78-136		
Propylene glycol	20	U	20.	200	mg/l	80		65-132		
Batch number: 112980042A	Sample number(s): 6443491-6443494									
Diethylene glycol	5.0	U	5.0	10	mg/kg	100		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	106		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	99		67-131		
Batch number: 112940009A	Sample number(s): 6443491-6443494									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	95		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	108		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	88		69-109		
Batch number: 112940018A	Sample number(s): 6443499									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	114	100	63-121	13	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	108	103	72-124	5	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	85	85	64-123	0	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	100	80	73-124	22	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	114*	100	43-107	13	30
Batch number: 112970009A	Sample number(s): 6443499									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	106	106	61-108	0	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	106	106	75-125	0	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	108	106	63-110	2	20
Batch number: 113000011A	Sample number(s): 6443491-6443494									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	96		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	99		75-128		

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Quality Control Summary

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Reported: 11/18/11 at 09:41 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	99		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	84		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	88		49-107		
Batch number: 112945713004	Sample number(s): 6443499									
Mercury	0.000026		0.00002	0.00020	mg/l	101	96	80-120	5	20
	U		6							
Batch number: 112971026002A	Sample number(s): 6443490-6443494									
Antimony	0.0740	U	0.0740	0.200	mg/kg	122		40-227		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	101		83-111		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	101		84-112		
Cadmium	0.0440	U	0.0440	0.100	mg/kg	100		83-111		
Chromium	0.120	U	0.120	0.400	mg/kg	113		77-123		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	105		85-114		
Copper	0.0800	U	0.0800	0.400	mg/kg	105		81-110		
Lead	0.0102	U	0.0102	0.200	mg/kg	101		84-112		
Nickel	0.100	U	0.100	0.400	mg/kg	99		81-110		
Silver	0.0142	U	0.0142	0.100	mg/kg	103		83-112		
Thallium	0.0300	U	0.0300	0.100	mg/kg	101		82-112		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	108		76-110		
Zinc	0.560	U	0.560	3.00	mg/kg	99		82-110		
Batch number: 112971026002B	Sample number(s): 6443490-6443494									
Selenium	0.0580	U	0.0580	0.400	mg/kg	101		79-110		
Batch number: 112971026002C	Sample number(s): 6443490-6443494									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	104		80-110		
Batch number: 112971026002D	Sample number(s): 6443490-6443494									
Barium	0.106	U	0.106	0.400	mg/kg	102		83-110		
Batch number: 112975708004	Sample number(s): 6443490-6443494									
Aluminum	6.96	J	6.05	20.0	mg/kg	86		40-127		
Boron	0.360	U	0.360	5.00	mg/kg	99		83-110		
Calcium	4.01	J	2.50	20.0	mg/kg	98		81-110		
Iron	2.61	U	2.61	20.0	mg/kg	94		47-129		
Lithium	0.62	U	0.62	2.0	mg/kg	101		80-120		
Magnesium	1.57	J	0.440	10.0	mg/kg	89		63-116		
Manganese	0.0360	U	0.0360	0.500	mg/kg	106		85-116		
Phosphorus	0.992	J	0.350	10.0	mg/kg	105		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	98		71-110		
Sodium	5.95	U	5.95	100	mg/kg	101		76-110		
Strontium	0.0250	U	0.0250	0.500	mg/kg	102		84-110		
Tin	1.31	J	0.320	10.0	mg/kg	96		86-120		
Titanium	0.0710	U	0.0710	1.00	mg/kg	88		80-120		
Zirconium	0.460	U	0.460	5.00	mg/kg	105		80-120		
Batch number: 112975711002	Sample number(s): 6443490-6443494									
Mercury	0.0069	U	0.0069	0.0984	mg/kg	115		83-119		
Batch number: 112991848003	Sample number(s): 6443499									
Aluminum	0.0801	U	0.0801	0.200	mg/l	104	102	90-112	2	20
Boron	0.0024	J	0.0022	0.0500	mg/l	96	97	89-110	1	20
Calcium	0.0765	J	0.0705	0.200	mg/l	100	100	90-110	0	20
Iron	0.0246	J	0.0141	0.200	mg/l	99	97	90-112	2	20
Lithium	0.0076	U	0.0076	0.0200	mg/l	100	100	90-110	0	20
Magnesium	0.0171	J	0.0067	0.100	mg/l	101	101	90-110	1	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272257
Reported: 11/18/11 at 09:41 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Manganese	0.00044 U	0.00044	0.0050	mg/l	104	103	90-110	2	20
Phosphorus	0.0047 U	0.0047	0.100	mg/l	99	99	90-110	1	20
Potassium	0.0874 U	0.0874	0.500	mg/l	95	96	85-115	1	20
Sodium	0.0647 U	0.0647	1.00	mg/l	99	99	87-114	0	20
Strontium	0.00028 J	0.00022	0.0050	mg/l	104	103	90-110	1	20
Tin	0.0043 U	0.0043	0.0200	mg/l	100	99	90-110	1	20
Titanium	0.00046 U	0.00046	0.0100	mg/l	101	100	90-113	2	20
Zirconium	0.0042 U	0.0042	0.0500	mg/l	102	101	90-110	0	20
Batch number: 112996050005A	Sample number(s): 6443499								
Antimony	0.00042 U	0.00042	0.0010	mg/l	99	106	87-110	8	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	105	101	86-111	4	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	110	106	90-113	4	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	107	104	90-114	3	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	104	105	90-118	1	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	108	109	87-113	1	20
Copper	0.00038 U	0.00038	0.0020	mg/l	110	111	90-113	0	20
Lead	0.000080 U	0.00008 0	0.0010	mg/l	106	106	90-115	1	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	105	107	90-113	1	20
Silver	0.000098 U	0.00009 8	0.00050	mg/l	106	108	90-115	2	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	106	102	89-116	4	20
Vanadium	0.00018 U	0.00018	0.00050	mg/l	103	104	89-116	2	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	104	102	90-116	2	20
Batch number: 112996050005B	Sample number(s): 6443499								
Selenium	0.00027 U	0.00027	0.0020	mg/l	107	105	85-114	2	20
Batch number: 112996050005C	Sample number(s): 6443499								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	102	104	89-115	2	20
Batch number: 112996050005D	Sample number(s): 6443499								
Barium	0.00069 U	0.00069	0.0020	mg/l	99	104	88-113	4	20
Batch number: 11293196903C	Sample number(s): 6443499								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	100	98	90-110	2	20
11b Anions by 300.0 - Nitrate	0.050 U	0.050	0.10	mg/l	100	100	90-110	0	20
Batch number: 11293281101A	Sample number(s): 6443499								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	90	96	85-115	7	20
Batch number: 11293281401A	Sample number(s): 6443499								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	100	105	90-110	5	20
Batch number: 11298243201A	Sample number(s): 6443490-6443494								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	89		80-120		
Batch number: 11298621201A	Sample number(s): 6443490-6443494								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	99		85-115		
Batch number: 11300102201A	Sample number(s): 6443491-6443494								
16a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	96		80-120		
Batch number: 11300117101B	Sample number(s): 6443499								
16b Cyanide by 9012B	0.0050 U	0.0050	0.010	mg/l	100	102	90-110	2	20
Batch number: 11300621201A	Sample number(s): 6443490-6443494								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272257
Reported: 11/18/11 at 09:41 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	110		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	100		90-110		
Batch number: 11294020001A	Sample number(s): 6443499									
17b pH by 9040B						100	100	90-110	0	3
Batch number: 11300039402B	Sample number(s): 6443490-6443494									
17a pH by 9045C						100		95-105		
Batch number: 11301162401A	Sample number(s): 6443490,6443493-6443494,6443497									
Moisture Content by 160.3						99		80-120		
Batch number: 11315162401A	Sample number(s): 6443491-6443492									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: E112972AA	Sample number(s): 6443498-6443499 UNSPK: P444104								
1,4-Dioxane	104	111	73-138	5	30				
Batch number: 11295SLA026	Sample number(s): 6443490-6443494 UNSPK: 6443490								
Aniline	65	74	18-116	13	30				
Benzidine	0*	0*	35-141	0	30				
Benzoic acid	74	58	10-173	25	30				
Benzyl alcohol	90	94	67-115	5	30				
4-Bromophenyl-phenylether	92	96	67-129	4	30				
Carbazole	92	98	64-120	6	30				
4-Chloro-3-methylphenol	94	99	62-122	6	30				
4-Chloroaniline	55	70	13-107	24	30				
bis(2-Chloroethoxy)methane	93	98	75-104	6	30				
bis(2-Chloroethyl)ether	88	90	60-116	2	30				
bis(2-Chloroisopropyl)ether	84	86	55-142	2	30				
2-Chloronaphthalene	71	74	50-141	4	30				
2-Chlorophenol	94	97	73-121	3	30				
4-Chlorophenyl-phenylether	94	97	80-109	3	30				
Dibenzofuran	91	96	71-112	5	30				
1,2-Dichlorobenzene	85	87	66-108	2	30				
1,3-Dichlorobenzene	85	86	63-109	1	30				
1,4-Dichlorobenzene	85	86	58-108	2	30				
3,3'-Dichlorobenzidine	39	55	28-109	33*	30				
2,4-Dichlorophenol	97	100	66-123	3	30				
2,4-Dimethylphenol	93	98	68-118	5	30				
3,5-Dimethylphenol	98	104	71-127	5	30				
4,6-Dinitro-2-methylphenol	80	46	11-126	53*	30				
2,4-Dinitrophenol	65	20	20-143	104*	30				
2,4-Dinitrotoluene	98	100	56-129	2	30				
2,6-Dinitrotoluene	97	101	69-123	4	30				
1,2-Diphenylhydrazine	94	97	71-129	3	30				
bis(2-Ethylhexyl)phthalate	92	97	63-122	5	30				

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Quality Control Summary

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Hexachlorobenzene	91	96	77-114	5	30				
Hexachlorobutadiene	86	91	62-120	6	30				
Hexachlorocyclopentadiene	87	86	10-153	1	30				
Hexachloroethane	84	84	57-109	0	30				
Isophorone	89	94	73-102	5	30				
2-Methylphenol	95	97	75-111	2	30				
4-Methylphenol	93	95	59-123	1	30				
2-Nitroaniline	98	101	67-125	3	30				
3-Nitroaniline	93	100	59-122	7	30				
4-Nitroaniline	81	89	41-109	10	30				
Nitrobenzene	89	95	57-125	7	30				
2-Nitrophenol	90	91	56-127	2	30				
4-Nitrophenol	86	90	37-129	5	30				
N-Nitroso-di-n-propylamine	84	87	60-116	3	30				
N-Nitrosodiphenylamine	95	98	71-122	4	30				
Pentachlorophenol	96	87	28-127	9	30				
Phenol	96	100	58-126	4	30				
1,2,4-Trichlorobenzene	88	93	72-115	5	30				
2,4,5-Trichlorophenol	94	98	58-129	4	30				
2,4,6-Trichlorophenol	94	96	56-134	2	30				
Batch number: 11295SLC026	Sample number(s): 6443490-6443494 UNSPK: 6443491								
Acenaphthene	92	89	63-105	3	30				
Acenaphthylene	88	85	67-114	3	30				
Anthracene	95	92	73-115	3	30				
Benzo(a)anthracene	99	97	59-128	2	30				
Benzo(a)pyrene	92	90	58-142	2	30				
Benzo(b)fluoranthene	91	88	54-163	3	30				
Benzo(g,h,i)perylene	102	98	33-141	4	30				
Benzo(k)fluoranthene	93	92	57-153	1	30				
Butylbenzylphthalate	100	96	57-173	5	30				
Di-n-butylphthalate	94	94	65-148	0	30				
Chrysene	98	97	67-123	1	30				
Dibenz(a,h)anthracene	104	101	22-133	2	30				
Diethylphthalate	91	88	70-136	4	30				
Dimethylphthalate	94	91	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	124	119	39-167	4	30				
Fluoranthene	95	94	51-149	1	30				
Fluorene	91	88	66-122	3	30				
Indeno(1,2,3-cd)pyrene	104	100	21-143	3	30				
1-Methylnaphthalene	86	82	72-123	5	30				
2-Methylnaphthalene	85	82	64-103	4	30				
Naphthalene	87	83	61-102	5	30				
N-Nitrosodimethylamine	96	89	48-113	8	30				
Di-n-octylphthalate	89	89	40-192	0	30				
Phenanthrene	91	88	62-122	3	30				
Pyrene	95	88	51-131	7	30				
Batch number: 11298SLB026	Sample number(s): 6443491-6443492,6443497 UNSPK: 6443491								
N-Nitrosodimethylamine	97	91	70-130	6	30				
Batch number: 113020012A	Sample number(s): 6443491-6443492 UNSPK: 6443491								
4-Amino-2,6-Dinitrotoluene	103	106	80-127	2	50				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272257
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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Amino-4,6-Dinitrotoluene	101	102	80-137	2	50				
1,3-Dinitrobenzene	104	105	38-166	1	50				
2,4-Dinitrotoluene	97	97	80-131	1	50				
2,6-Dinitrotoluene	99	100	80-127	1	50				
HMX	87	88	63-128	1	50				
Nitrobenzene	93	93	80-125	0	50				
Nitroglycerin	96	97	80-120	1	50				
2-Nitrotoluene	97	96	80-122	1	50				
3-Nitrotoluene	102	101	72-119	1	50				
4-Nitrotoluene	95	95	80-125	0	50				
PETN	103	104	80-121	1	50				
RDX	95	96	75-129	1	50				
Tetryl	105	109	55-174	3	50				
1,3,5-Trinitrobenzene	101	102	82-126	1	50				
2,4,6-Trinitrotoluene	104	105	82-130	1	50				
Batch number: 112980025A	Sample number(s): 6443491-6443492 UNSPK: 6443491								
20a Formaldehyde 8315A	106	113	80-120	6	50				
Batch number: 112970027A	Sample number(s): 6443490-6443494 UNSPK: 6443490								
PCB-1016	87	75	29-146	15	50				
PCB-1260	96	94	39-149	2	50				
Batch number: 112930031A	Sample number(s): 6443499 UNSPK: P442022								
Ethanol	92	88	62-145	4	20				
Isopropanol	103	99	73-131	4	20				
Methanol	82	70	52-159	11	20				
Batch number: 112930033A	Sample number(s): 6443491-6443494 UNSPK: 6443491								
Ethanol	91	95	48-130	4	20				
Isopropanol	95	90	12-149	5	20				
Methanol	83	90	43-138	8	20				
Batch number: 112970039A	Sample number(s): 6443499 UNSPK: 6443499								
Diethylene glycol	105	114	83-130	9	20				
Ethylene glycol	70*	90	89-125	25*	20				
Propylene glycol	75*	90*	91-128	18	20				
Batch number: 112980042A	Sample number(s): 6443491-6443494 UNSPK: P437195								
Diethylene glycol	47*	48*	59-109	3	20				
Ethylene glycol	75	75	63-107	1	20				
Propylene glycol	77	78	63-107	0	20				
Batch number: 112940009A	Sample number(s): 6443491-6443494 UNSPK: 6443492								
m-Terphenyl	96	98	75-125	2	20				
o-Terphenyl	105	105	75-125	0	20				
p-Terphenyl	88	90	75-125	3	20				
Batch number: 113000011A	Sample number(s): 6443491-6443494 UNSPK: P445463								
EFH (C12-C14)	119	283*	49-123	59*	20				
EFH (C15-C20)	494*	190*	49-123	55*	20				
EFH (C21-C30)	1022 (2)	728 (2)	49-123	20	20				

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
EFH (C30 - C40)	292 (2)	353 (2)	49-123	5	20				
EFH (C8-C11)	90	90	49-123	0	20				
Batch number: 112971026002A	Sample number(s): 6443490-6443494 UNSPK: 6443490 BKG: 6443490								
Antimony	49*	57*	75-125	12	20	0.223	0.246	10 (1)	20
Arsenic	148*	161*	75-125	3	20	5.12	6.32	21*	20
Beryllium	122	120	75-125	0	20	0.654	0.770	16	20
Cadmium	119	124	75-125	4	20	0.109	0.133	20 (1)	20
Chromium	124	149*	75-125	5	20	33.9	38.3	12	20
Cobalt	120	122	75-125	3	20	6.38	7.69	19	20
Copper	127*	133*	75-125	3	20	6.25	7.47	18	20
Lead	146*	153*	75-125	3	20	5.13	6.33	21*	20
Nickel	135*	142*	75-125	3	20	11.6	13.9	18	20
Silver	117	120	75-125	3	20	0.0246 J	0.0251 J	2 (1)	20
Thallium	111	125	75-125	9	20	0.204	0.196	4 (1)	20
Vanadium	159 (2)	199 (2)	75-125	5	20	60.8	69.4	13	20
Zinc	162 (2)	186 (2)	75-125	4	20	46.6	54.5	16	20
Batch number: 112971026002B	Sample number(s): 6443490-6443494 UNSPK: 6443490 BKG: 6443490								
Selenium	105	102	75-125	2	20	0.141 J	0.135 J	5 (1)	20
Batch number: 112971026002C	Sample number(s): 6443490-6443494 UNSPK: 6443490 BKG: 6443490								
Molybdenum	112	117	75-125	6	20	0.495	0.518	5 (1)	20
Batch number: 112971026002D	Sample number(s): 6443490-6443494 UNSPK: 6443490 BKG: 6443490								
Barium	206 (2)	245 (2)	75-125	5	20	59.8	70.0	16	20
Batch number: 112975708004	Sample number(s): 6443490-6443494 UNSPK: P435690 BKG: P435690								
Aluminum	1436 (2)	1627 (2)	75-125	3	20	9,700	10,400	7	20
Boron	97	96	84-115	3	20	1.83 J	0.350 U	200* (1)	20
Calcium	173 (2)	213 (2)	75-125	3	20	4,060	3,830	6	20
Iron	2364 (2)	2747 (2)	75-125	2	20	16,600	17,900	8	20
Lithium	106	105	82-114	1	20	23.2	24.7	6	20
Magnesium	326 (2)	298 (2)	75-125	2	20	3,270	3,450	5	20
Manganese	115 (2)	122 (2)	75-125	1	20	260	258	1	20
Phosphorus	89	87	75-125	1	20	276	254	8	20
Potassium	141*	144*	75-125	1	20	1,890	2,000	6	20
Sodium	102	101	75-125	2	20	69.3 J	74.3 J	7 (1)	20
Strontium	101	101	75-115	1	20	17.9	15.5	15	20
Tin	87	87	80-110	1	20	2.85 J	2.77 J	3 (1)	20
Titanium	258 (2)	255 (2)	75-125	0	20	1,060	1,030	3	20
Zirconium	101	102	81-110	0	20	3.58 J	4.03 J	12 (1)	20
Batch number: 112975711002	Sample number(s): 6443490-6443494 UNSPK: 6443490 BKG: 6443490								
Mercury	100	96	65-135	4	20	0.0067 U	0.0067 U	0 (1)	20
Batch number: 11298243201A	Sample number(s): 6443490-6443494 UNSPK: P441963 BKG: P441963								
3a Cr VI by EPA 7199	96		75-125			0.46 J	0.65 J	36* (1)	20
Batch number: 11298621201A	Sample number(s): 6443490-6443494 UNSPK: 6443490 BKG: 6443490								
7a Perchlorate EPA 314.0	98		80-120			9.0 U	9.0 U	0 (1)	15

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272257
Reported: 11/18/11 at 09:41 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11300102201A	Sample number(s): 6443491-6443494 UNSPK: 6443491 BKG: 6443491								
16a Cyanide by 9012B	102		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11300621201A	Sample number(s): 6443490-6443494 UNSPK: P441963 BKG: P441963								
11a Anions by 300.0 - Fluoride	53*		80-120			1.9	2.4	22* (1)	20
11a Anions by 300.0 - Nitrate	99		80-120			3.1	2.5	22* (1)	20
Batch number: 11300039402B	Sample number(s): 6443490-6443494 BKG: 6443494								
17a pH by 9045C						6.51	6.54	0	3
Batch number: 11301162401A	Sample number(s): 6443490,6443493-6443494,6443497 BKG: 6443493								
Moisture Content by 160.3						3.9	3.8	1	20
Batch number: 11315162401A	Sample number(s): 6443491-6443492 BKG: P457197								
Moisture Content by 160.3						0.50 U	0.50 U	0 (1)	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1a Volatile Organics EPA 8260B
Batch number: B112981AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6443491	103	107	98	96
6443492	101	100	97	95
Blank	102	101	98	93
LCS	100	99	102	101
LCSD	101	100	102	101
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E112972AA

	Toluene-d8
6443498	100
6443499	100
Blank	100
LCS	100
MS	100
MSD	100
Limits:	80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E112981AA

	Toluene-d8

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272257
Reported: 11/18/11 at 09:41 AM

Surrogate Quality Control

6443491	93
6443492	94
Blank	94
LCS	94
LCSD	94
Limits:	70-130

Analysis Name: 1b Volatile Organics EPA8260B
Batch number: Y112992AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6443498	101	99	97	99
6443499	104	99	97	101
Blank	100	99	98	100
LCS	104	100	100	105
LCSD	100	98	99	102
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11295SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6443490	86	90	84	80	85	97
6443491	94	97	80	88	89	100
6443492	73	77	65	70	72	78
6443493	94	97	84	85	89	98
6443494	90	91	90	83	86	102
Blank	86	90	84	86	88	99
LCS	89	90	91	85	88	101
MS	92	94	86	86	87	96
MSD	95	98	89	91	92	101
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11295SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6443490	79	69	88
6443491	78	65	72
6443492	101	83	84
6443493	98	83	79
6443494	96	73	65
Blank	93	82	81
LCS	98	81	86
MS	100	83	84
MSD	97	80	80
Limits:	40-130	45-130	45-135

Analysis Name: 21b. NDMA in Water
Batch number: 11297WAC026

	N-Nitrosodimethylamine-d6

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272257
Reported: 11/18/11 at 09:41 AM

Surrogate Quality Control

6443495	104					
6443496	103					
6443499	110					
Blank	102					
LCS	101					
LCSD	106					
Limits:	50-150					

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11297WAE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6443499	101	87	94
Blank	102	88	93
LCS	104	89	93
LCSD	105	89	92
Limits:	40-130	45-130	45-135

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11297WAI026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6443499	61	39	90	89	89	102
Blank	61	41	90	85	88	102
LCS	69	48	89	86	87	97
LCSD	71	51	91	91	89	99
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 21a NDMA by 1625C
Batch number: 11298SLB026

	N-Nitrosodimethylamine-d6
6443491	99
6443492	71
6443497	93
Blank	115
LCS	106
MS	92
MSD	56
Limits:	50-150

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11294B20A

	Trifluorotoluene-F
6443499	88
Blank	86
LCS	117
LCSD	113
Limits:	63-135

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272257
Reported: 11/18/11 at 09:41 AM

Surrogate Quality Control

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11297B20A

	Trifluorotoluene-F
6443498	87
Blank	87
LCS	117
LCSD	113
Limits:	63-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11299A16A

	Trifluorotoluene-F
6443491	92
6443492	88
6443493	122
6443494	93
Blank	96
LCS	89
LCSD	93
Limits:	61-122

Analysis Name: 20b Formaldehyde 8315A
Batch number: 112930018A

	Butyraldehyde
6443499	91
Blank	86
LCS	94
LCSD	95
Limits:	45-145

Analysis Name: 15b Energetics by 8330A
Batch number: 112930023A

	2-Nitro-m-xylene
6443499	85
Blank	91
LCS	91
LCSD	92
Limits:	50-134

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112970027A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6443490	71	79
6443491	81	88
6443492	81	93
6443493	90	97
6443494	85	90

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272257
Reported: 11/18/11 at 09:41 AM

Surrogate Quality Control

Blank	83	99
LCS	81	98
LCSD	82	97
MS	80	97
MSD	79	95
Limits:	53-139	53-142

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 112980001A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6443499	97	102
Blank	101	104
LCS	101	84
LCSD	99	79
Limits:	30-150	30-150

Analysis Name: 20a Formaldehyde 8315A
Batch number: 112980025A

	Butyraldehyde
6443491	98
6443492	93
Blank	85
LCS	80
MS	82
MSD	89
Limits:	64-126

Analysis Name: 15a Energetics by 8330A
Batch number: 113020012A

	2-Nitro-m-xylene
6443491	105
6443492	101
Blank	112
LCS	94
LCSD	93
MS	95
MSD	101
Limits:	80-146

Analysis Name: 18b Alcohols by 8015B
Batch number: 112930031A

	Acetone
6443499	94
Blank	101
LCS	104
MS	108
MSD	103
Limits:	54-147

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272257
Reported: 11/18/11 at 09:41 AM

Surrogate Quality Control

Analysis Name: 18a Alcohols by 8015B
Batch number: 112930033A

	Acetone
6443491	82
6443492	82
6443493	85
6443494	82
Blank	96
LCS	92
MS	82
MSD	82
Limits:	42-138

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112940009A

	n-Triacontane-d62
6443491	53
6443492	51
6443493	57
6443494	74
Blank	115
LCS	64
MS	57
MSD	54
Limits:	19-152

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 112940018A

	Chlorobenzene	Orthoterphenyl
6443499	85	84
Blank	106	
LCS	130	101
LCSD	94	98
Limits:	28-152	52-131

Analysis Name: 22b Terphenyls by 8015B
Batch number: 112970009A

	n-Triacontane-d62
6443499	72
Blank	73
LCS	81
LCSD	76
Limits:	17-138

Analysis Name: 19b Glycols by 8015B
Batch number: 112970039A

	Tetramethylene glycol

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272257
Reported: 11/18/11 at 09:41 AM

Surrogate Quality Control

6443499	106
Blank	104
LCS	110
MS	110
MSD	114
Limits:	29-157

Analysis Name: 19a Glycols by 8015B
Batch number: 112980042A

	Tetramethylene glycol
6443491	87
6443492	87
6443493	85
6443494	88
Blank	100
LCS	99
MS	88
MSD	87
Limits:	29-137

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 113000011A

	Chlorobenzene	Orthoterphenyl
6443491	84	88
6443492	90	91
6443493	85	87
6443494	88	89
Blank	83	87
LCS	80	90
MS	85	75
MSD	88	81
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cap# 1272257 Sample# 6443490-99

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/6847/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-016-SA5DS-SB-4.0-5.0	10.19.11	0942	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X															
SL-143-SA7-SB-5.5	10.19.11	1005	SOIL	NONE	5-Encores										X	X	X											
SL-143-SA7-SB-5.0-6.0	10.19.11	0945	SOIL	NONE	1-SS Sleeve			X	X																			
SL-143-SA7-SB-5.0-6.0	10.19.11	0945	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X		
SL-143-SA7-SB-9.5	10.19.11	1045	SOIL	NONE	5-Encores										X	X	X											
SL-143-SA7-SB-9.0-10.0	10.19.11	1050	SOIL	NONE	1-SS Sleeve			X	X																			
SL-143-SA7-SB-9.0-10.0	10.19.11	1050	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X					X	X	X	X	X	X	X	X	X		
SL-142-SA7-SB-2.5	10.19.11	1511	SOIL	NONE	2-Encores												X											
SL-142-SA7-SB-2.0-3.0	10.19.11	1515	SOIL	NONE	1-SS Sleeve			X	X																			
SL-142-SA7-SB-2.0-3.0	10.19.11	1515	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X					X					X	X	X	X		
SL-142-SA7-SB-5.5	10.19.11	1520	SOIL	NONE	2-Encores												X											
SL-142-SA7-SB-7.0-8.0	10.19.11	1545	SOIL	NONE	1-SS Sleeve			X	X																			
SL-142-SA7-SB-7.0-8.0	10.19.11	1545	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X					X					X	X	X	X		
EB-SA7-SB-101911	10.19.11	1430	WATER	NONE	1-1 L Amber																X							HG^L ASTM II WATER-HA crew
TB-101911	10.19.11	0800	WATER	NONE	1-1 L Amber																X							
TB-101911	10.19.11	0800	SOIL	NONE	1-4 oz Jar																X							
TB-101911	10.19.11	0800	WATER	NONE	4-40 mL Vials										X	X	X											

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	10/19/2011 / 1630	LLL 10/20/11 0745	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	AirBill No.(s)	
		8767 9857 5176,5187,3531	

acct# 13013 Qp# 1372257 Sample# 6443490-99

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
EB-SA7-SB-101911	10.19.11	1430	WATER	NONE	10-1 liter ambers			X	X	X						X			X	X		X			X	
EB-SA7-SB-101911	10.19.11	1430	WATER	NONE	1-500 mL poly		X				X	X	X													
EB-SA7-SB-101911	10.19.11	1430	WATER	HNO3	1-500 mL poly	X																				
EB-SA7-SB-101911	10.19.11	1430	WATER	NaOH	1-500 mL poly																X					
EB-SA7-SB-101911	10.19.11	1430	WATER	NONE	1-250 mL glass													X								
EB-SA7-SB-101911	10.19.11	1430	WATER	HCL	11-40 mL vials										X									X		
EB-SA7-SB-101911	10.19.11	1430	WATER	NONE	4-40 mL vials												X						X			

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/19/2011 / 1630	LLS 10/20/11 0915	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8767 9857 5176,5187,3531	

Nicole Maljovec

From: Hartman, Pamela [HartmanPM@cdm.com]
Sent: Thursday, October 20, 2011 4:55 PM
To: Nicole Maljovec
Subject: RE: SSFL COC 10/19/11: SL-142@2.5 Question

Yes, please run all VOCs.

I'm sorry for the inconsistencies!!!!

From: Nicole Maljovec [nmaljovec@lancasterlabs.com]
Sent: Thursday, October 20, 2011 1:52 PM
To: Hartman, Pamela
Subject: SSFL COC 10/19/11: SL-142@2.5 Question

Hi Pam,
We have another question for you. The attached COC has 5 encores listed for SL-142 @2.5 and all of the VOC tests are marked off. The COC in the cooler has 2 encores listed and only GRO checked off. There are 5 encores in the silver pouch, so I'm assuming the e-COC was right and we should test for all VOC analyses. Do you concur?

Thanks!
Nicole

-----Original Message-----
From: Hartman, Pamela [mailto:HartmanPM@cdm.com]
Sent: Wednesday, October 19, 2011 7:47 PM
To: Bloisa, Peggy; Burgesser, Todd; 'Laura Rainey'; SA Env Entry; TWallbom@dtsc.ca.gov; Zakowski, Cherie; Nicole Maljovec
Subject: SSFL COC 10/19/11

Subsurface sampling with two crews continued in SA7 and SA5DS today.
Please see attached COC.

Thanks,

Pam

Pamela Hartman
CDM
523 W 6th St #400
Los Angeles, CA 90014
Cell 714-900-0916
Direct 818-466-8007

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 14, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/20/2011
Group Number: 1272258
SDG: DX150
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-016-SA5DS-SB-4.0-5.0 Soil	6443500
SL-143-SA7-SB-5.0-6.0 Soil	6443501
SL-143-SA7-SB-9.0-10.0 Soil	6443502
SL-142-SA7-SB-2.0-3.0 Soil	6443503
SL-142-SA7-SB-7.0-8.0 Soil	6443504
EB-SA7-SB-101911 Water	6443505

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-016-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DS-SB-4.0-5.0

LLI Sample # SW 6443500
LLI Group # 1272258
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 09:42

Submitted: 10/20/2011 09:15
Reported: 11/14/2011 09:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5006 SDG#: DX150-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-016-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DS-SB-4.0-5.0

LLI Sample # SW 6443500
LLI Group # 1272258
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 09:42

Submitted: 10/20/2011 09:15
Reported: 11/14/2011 09:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5006 SDG#: DX150-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0321 U	0.0321	1.08	1
11031	12378-PeCDD	40321-76-4	0.0435 JB	0.0276	5.42	1
11031	123478-HxCDD	39227-28-6	0.0397 JBQ	0.0237	5.42	1
11031	123678-HxCDD	57653-85-7	0.0801 JB	0.0252	5.42	1
11031	123789-HxCDD	19408-74-3	0.161 JBQ	0.0234	5.42	1
11031	1234678-HpCDD	35822-46-9	0.264 JB	0.0239	5.42	1
11031	OCDD	3268-87-9	0.552 JBQ	0.0415	10.8	1
11031	2378-TCDF	51207-31-9	0.0249 JQ	0.0244	1.08	1
11031	12378-PeCDF	57117-41-6	0.0355 JB	0.0131	5.42	1
11031	23478-PeCDF	57117-31-4	0.0479 JB	0.0143	5.42	1
11031	123478-HxCDF	70648-26-9	0.0316 J	0.0176	5.42	1
11031	123678-HxCDF	57117-44-9	0.0409 JBQ	0.0146	5.42	1
11031	123789-HxCDF	72918-21-9	0.183 JB	0.0203	5.42	1
11031	234678-HxCDF	60851-34-5	0.0493 JBQ	0.0152	5.42	1
11031	1234678-HpCDF	67562-39-4	0.145 JB	0.0122	5.42	1
11031	1234789-HpCDF	55673-89-7	0.0224 U	0.0224	5.42	1
11031	OCDF	39001-02-0	0.164 JBQ	0.0467	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	57	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	46	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-016-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DS-SB-4.0-5.0

LLI Sample # SW 6443500
LLI Group # 1272258
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 09:42

Submitted: 10/20/2011 09:15
Reported: 11/14/2011 09:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5006 SDG#: DX150-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-016-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DS-SB-4.0-5.0

LLI Sample # SW 6443500
LLI Group # 1272258
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 09:42

Submitted: 10/20/2011 09:15
Reported: 11/14/2011 09:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5006 SDG#: DX150-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11300001	10/29/2011 19:06	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11300001	10/27/2011 09:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401A	10/28/2011 22:37	Lisa J Cooke	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-143-SA7-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA7-SB-5.0-6.0

LLI Sample # SW 6443501
LLI Group # 1272258
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 09:45

Submitted: 10/20/2011 09:15
Reported: 11/14/2011 09:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5007 SDG#: DX150-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-143-SA7-SB-5.0-6.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-143-SA7-SB-5.0-6.0

LLI Sample # SW 6443501
LLI Group # 1272258
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 09:45

Submitted: 10/20/2011 09:15
Reported: 11/14/2011 09:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5007 SDG#: DX150-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0319 U	0.0319	1.06	1
11031	12378-PeCDD	40321-76-4	0.0776 JBQ	0.0274	5.30	1
11031	123478-HxCDD	39227-28-6	0.0481 JB	0.0209	5.30	1
11031	123678-HxCDD	57653-85-7	0.0925 JBQ	0.0216	5.30	1
11031	123789-HxCDD	19408-74-3	0.0778 JBQ	0.0210	5.30	1
11031	1234678-HpCDD	35822-46-9	0.709 JB	0.0251	5.30	1
11031	OCDD	3268-87-9	4.51 JB	0.0447	10.6	1
11031	2378-TCDF	51207-31-9	0.0429 JQ	0.0256	1.06	1
11031	12378-PeCDF	57117-41-6	0.103 JBQ	0.0152	5.30	1
11031	23478-PeCDF	57117-31-4	0.120 JB	0.0163	5.30	1
11031	123478-HxCDF	70648-26-9	0.129 JQ	0.0170	5.30	1
11031	123678-HxCDF	57117-44-9	0.0594 JBQ	0.0135	5.30	1
11031	123789-HxCDF	72918-21-9	0.0576 JBQ	0.0188	5.30	1
11031	234678-HxCDF	60851-34-5	0.0785 JBQ	0.0137	5.30	1
11031	1234678-HpCDF	67562-39-4	0.191 JB	0.0130	5.30	1
11031	1234789-HpCDF	55673-89-7	0.0688 JBQ	0.0245	5.30	1
11031	OCDF	39001-02-0	0.298 JBQ	0.0449	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	57	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-143-SA7-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA7-SB-5.0-6.0

LLI Sample # SW 6443501
LLI Group # 1272258
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 09:45

Submitted: 10/20/2011 09:15
Reported: 11/14/2011 09:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5007 SDG#: DX150-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-143-SA7-SB-5.0-6.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA7-SB-5.0-6.0

LLI Sample # SW 6443501
LLI Group # 1272258
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 09:45

Submitted: 10/20/2011 09:15
Reported: 11/14/2011 09:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5007 SDG#: DX150-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11300001	10/29/2011 20:02	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11300001	10/27/2011 09:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11315162401A	11/11/2011 22:24	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-143-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA7-SB-9.0-10.0

LLI Sample # SW 6443502
LLI Group # 1272258
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 10:50

Submitted: 10/20/2011 09:15
Reported: 11/14/2011 09:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5008 SDG#: DX150-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-143-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA7-SB-9.0-10.0

LLI Sample # SW 6443502
LLI Group # 1272258
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 10:50

Submitted: 10/20/2011 09:15
Reported: 11/14/2011 09:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5008 SDG#: DX150-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0635 JQ	0.0309	1.01	1
11031	12378-PeCDD	40321-76-4	0.150 JBQ	0.0236	5.05	1
11031	123478-HxCDD	39227-28-6	0.0456 JBQ	0.0211	5.05	1
11031	123678-HxCDD	57653-85-7	0.107 JBQ	0.0215	5.05	1
11031	123789-HxCDD	19408-74-3	0.104 JB	0.0196	5.05	1
11031	1234678-HpCDD	35822-46-9	0.354 JB	0.0222	5.05	1
11031	OCDD	3268-87-9	1.37 JBQ	0.0294	10.1	1
11031	2378-TCDF	51207-31-9	0.100 JQ	0.0217	1.01	1
11031	12378-PeCDF	57117-41-6	0.159 JB	0.0123	5.05	1
11031	23478-PeCDF	57117-31-4	0.158 JBQ	0.0131	5.05	1
11031	123478-HxCDF	70648-26-9	0.0821 J	0.0171	5.05	1
11031	123678-HxCDF	57117-44-9	0.0777 JB	0.0137	5.05	1
11031	123789-HxCDF	72918-21-9	0.0508 JBQ	0.0174	5.05	1
11031	234678-HxCDF	60851-34-5	0.0847 JB	0.0143	5.05	1
11031	1234678-HpCDF	67562-39-4	0.217 JB	0.0110	5.05	1
11031	1234789-HpCDF	55673-89-7	0.0633 JBQ	0.0203	5.05	1
11031	OCDF	39001-02-0	0.304 JB	0.0433	10.1	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	54	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-143-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA7-SB-9.0-10.0

LLI Sample # SW 6443502
LLI Group # 1272258
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 10:50

Submitted: 10/20/2011 09:15
Reported: 11/14/2011 09:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5008 SDG#: DX150-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-143-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-143-SA7-SB-9.0-10.0

LLI Sample # SW 6443502
LLI Group # 1272258
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 10:50

Submitted: 10/20/2011 09:15
Reported: 11/14/2011 09:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5008 SDG#: DX150-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11300001	10/30/2011 00:02	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11300001	10/27/2011 09:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11315162401A	11/11/2011 22:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-142-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-142-SA7-SB-2.0-3.0

LLI Sample # SW 6443503
LLI Group # 1272258
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 15:15

Submitted: 10/20/2011 09:15
Reported: 11/14/2011 09:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5009 SDG#: DX150-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-142-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-142-SA7-SB-2.0-3.0

LLI Sample # SW 6443503
LLI Group # 1272258
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 15:15

Submitted: 10/20/2011 09:15
Reported: 11/14/2011 09:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5009 SDG#: DX150-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0615 J	0.0271	1.02	1
11031	12378-PeCDD	40321-76-4	0.135 JB	0.0271	5.10	1
11031	123478-HxCDD	39227-28-6	0.0851 JB	0.0249	5.10	1
11031	123678-HxCDD	57653-85-7	0.182 JB	0.0241	5.10	1
11031	123789-HxCDD	19408-74-3	0.221 JB	0.0250	5.10	1
11031	1234678-HpCDD	35822-46-9	3.16 JB	0.0300	5.10	1
11031	OCDD	3268-87-9	25.3 B	0.0407	10.2	1
11031	2378-TCDF	51207-31-9	0.155 J	0.0362	1.02	1
11031	12378-PeCDF	57117-41-6	0.137 JB	0.0200	5.10	1
11031	23478-PeCDF	57117-31-4	0.205 JB	0.0207	5.10	1
11031	123478-HxCDF	70648-26-9	0.411 J	0.0241	5.10	1
11031	123678-HxCDF	57117-44-9	0.0818 JB	0.0190	5.10	1
11031	123789-HxCDF	72918-21-9	0.167 JB	0.0246	5.10	1
11031	234678-HxCDF	60851-34-5	0.0887 JB	0.0201	5.10	1
11031	1234678-HpCDF	67562-39-4	0.633 JB	0.0126	5.10	1
11031	1234789-HpCDF	55673-89-7	0.0417 JB	0.0237	5.10	1
11031	OCDF	39001-02-0	1.31 JB	0.0395	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	87	25 - 164
13C12-12378-PeCDD	91	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	92	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	57	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-142-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-142-SA7-SB-2.0-3.0

LLI Sample # SW 6443503
LLI Group # 1272258
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 15:15

Submitted: 10/20/2011 09:15
Reported: 11/14/2011 09:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5009 SDG#: DX150-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-142-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-142-SA7-SB-2.0-3.0

LLI Sample # SW 6443503
LLI Group # 1272258
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 15:15

Submitted: 10/20/2011 09:15
Reported: 11/14/2011 09:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5009 SDG#: DX150-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11300001	10/30/2011 17:17	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11300001	10/27/2011 09:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401A	10/28/2011 22:37	Lisa J Cooke	1

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Analysis Report

Sample Description: **SL-142-SA7-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-142-SA7-SB-7.0-8.0

LLI Sample # SW 6443504
LLI Group # 1272258
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 15:45

Submitted: 10/20/2011 09:15
Reported: 11/14/2011 09:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5010 SDG#: DX150-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-142-SA7-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-142-SA7-SB-7.0-8.0

LLI Sample # SW 6443504
LLI Group # 1272258
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 15:45

Submitted: 10/20/2011 09:15
Reported: 11/14/2011 09:30

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X5010 SDG#: DX150-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0275	U	0.0275	1.04	1
11031	12378-PeCDD	40321-76-4	0.0919	JB	0.0301	5.20	1
11031	123478-HxCDD	39227-28-6	0.188	JB	0.0297	5.20	1
11031	123678-HxCDD	57653-85-7	0.539	JB	0.0304	5.20	1
11031	123789-HxCDD	19408-74-3	0.415	JB	0.0298	5.20	1
11031	1234678-HpCDD	35822-46-9	11.2	B	0.0405	5.20	1
11031	OCDD	3268-87-9	86.8	B	0.0592	10.4	1
11031	2378-TCDF	51207-31-9	0.336	JQ	0.0571	1.04	1
11031	12378-PeCDF	57117-41-6	0.225	JB	0.0278	5.20	1
11031	23478-PeCDF	57117-31-4	0.0300	U	0.0300	5.20	1
11031	123478-HxCDF	70648-26-9	0.437	J	0.0303	5.20	1
11031	123678-HxCDF	57117-44-9	0.177	JB	0.0248	5.20	1
11031	123789-HxCDF	72918-21-9	0.126	JB	0.0302	5.20	1
11031	234678-HxCDF	60851-34-5	0.194	JB	0.0229	5.20	1
11031	1234678-HpCDF	67562-39-4	1.45	JB	0.0172	5.20	1
11031	1234789-HpCDF	55673-89-7	0.147	JBQ	0.0305	5.20	1
11031	OCDF	39001-02-0	3.44	JB	0.0396	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	58	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-142-SA7-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-142-SA7-SB-7.0-8.0

LLI Sample # SW 6443504
LLI Group # 1272258
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 15:45

Submitted: 10/20/2011 09:15
Reported: 11/14/2011 09:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5010 SDG#: DX150-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-142-SA7-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-142-SA7-SB-7.0-8.0

LLI Sample # SW 6443504
LLI Group # 1272258
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 15:45

Submitted: 10/20/2011 09:15
Reported: 11/14/2011 09:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5010 SDG#: DX150-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11300001	10/30/2011 01:55	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11300001	10/27/2011 09:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401A	10/28/2011 22:37	Lisa J Cooke	1

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Analysis Report

Sample Description: **EB-SA7-SB-101911 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-101911

LLI Sample # WW 6443505
LLI Group # 1272258
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 14:30

Submitted: 10/20/2011 09:15
Reported: 11/14/2011 09:30

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X5011 SDG#: DX150-11EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.449	U	0.449	2.12	1
10915	12378-PeCDD	40321-76-4	0.392	U	0.392	10.6	1
10915	123478-HxCDD	39227-28-6	0.328	U	0.328	10.6	1
10915	123678-HxCDD	57653-85-7	0.623	JBQ	0.327	10.6	1
10915	123789-HxCDD	19408-74-3	0.805	JBQ	0.319	10.6	1
10915	1234678-HpCDD	35822-46-9	3.05	JB	0.351	10.6	1
10915	OCDD	3268-87-9	6.70	JB	0.371	21.2	1
10915	2378-TCDF	51207-31-9	0.315	JBQ	0.266	2.12	1
10915	12378-PeCDF	57117-41-6	0.543	JBQ	0.217	10.6	1
10915	23478-PeCDF	57117-31-4	0.801	JBQ	0.196	10.6	1
10915	123478-HxCDF	70648-26-9	0.302	JBQ	0.192	10.6	1
10915	123678-HxCDF	57117-44-9	0.460	JBQ	0.179	10.6	1
10915	123789-HxCDF	72918-21-9	0.426	JBQ	0.186	10.6	1
10915	234678-HxCDF	60851-34-5	0.536	JBQ	0.171	10.6	1
10915	1234678-HpCDF	67562-39-4	2.50	JB	0.182	10.6	1
10915	1234789-HpCDF	55673-89-7	0.479	JBQ	0.214	10.6	1
10915	OCDF	39001-02-0	2.49	JBQ	0.505	21.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	59	25 - 164
13C12-12378-PeCDD	55	25 - 181
13C12-123478-HxCDD	55	32 - 141
13C12-123678-HxCDD	57	28 - 130
13C12-123789-HxCDD	56	28 - 130
13C12-1234678-HpCDD	56	23 - 140
13C12-OCDD	54	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	57	24 - 185
13C12-23478-PeCDF	58	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	53	26 - 123
13C12-234678-HxCDF	54	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	53	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	52	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA7-SB-101911 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB-101911

LLI Sample # WW 6443505
LLI Group # 1272258
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/19/2011 14:30

Submitted: 10/20/2011 09:15
Reported: 11/14/2011 09:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5011 SDG#: DX150-11EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11297002	10/26/2011 09:09	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11297002	10/24/2011 09:45	Ginelle L Haines	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272258
Reported: 11/14/11 at 09:30 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11301162401A	Sample number(s): 6443500,6443503-6443504									
Moisture Content by 160.3						99		80-120		
Batch number: 11315162401A	Sample number(s): 6443501-6443502									
Moisture Content by 160.3						100		80-120		

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11297002	Sample number(s): 6443505									
2378-TCDD	0.534	U	0.534	2.00	pg/l	108		67-158		
12378-PeCDD	0.463	U	0.463	10.0	pg/l	109		70-142		
123478-HxCDD	0.338	U	0.338	10.0	pg/l	102		70-164		
123678-HxCDD	0.372	J	0.333	10.0	pg/l	99		76-134		
123789-HxCDD	0.989	J	0.344	10.0	pg/l	107		64-162		
1234678-HpCDD	3.78	J	0.374	10.0	pg/l	105		70-140		
OCDD	6.96	J	0.424	20.0	pg/l	104		78-144		
2378-TCDF	0.339	J	0.324	2.00	pg/l	97		75-158		
12378-PeCDF	0.262	J	0.229	10.0	pg/l	102		80-134		
23478-PeCDF	0.327	J	0.200	10.0	pg/l	99		68-160		
123478-HxCDF	0.588	J	0.209	10.0	pg/l	103		72-134		
123678-HxCDF	0.410	J	0.208	10.0	pg/l	105		84-130		
123789-HxCDF	0.976	J	0.229	10.0	pg/l	102		78-130		
234678-HxCDF	0.342	J	0.198	10.0	pg/l	99		70-156		
1234678-HpCDF	1.54	J	0.203	10.0	pg/l	98		82-122		
1234789-HpCDF	0.445	J	0.233	10.0	pg/l	104		78-138		
OCDF	2.32	J	0.508	20.0	pg/l	103		63-170		
Batch number: 11300001	Sample number(s): 6443500-6443504									
2378-TCDD	0.0422	U	0.0422	1.00	ng/kg	107		67-158		
12378-PeCDD	0.0804	J	0.0346	5.00	ng/kg	105		70-142		
123478-HxCDD	0.0345	J	0.0262	5.00	ng/kg	97		70-164		
123678-HxCDD	0.0438	J	0.0267	5.00	ng/kg	94		76-134		
123789-HxCDD	0.0427	J	0.0259	5.00	ng/kg	101		64-162		
1234678-HpCDD	0.295	J	0.0295	5.00	ng/kg	97		70-140		
OCDD	0.493	J	0.0380	10.0	ng/kg	96		78-144		
2378-TCDF	0.0353	U	0.0353	1.00	ng/kg	103		75-158		
12378-PeCDF	0.0458	J	0.0185	5.00	ng/kg	101		80-134		
23478-PeCDF	0.0744	J	0.0187	5.00	ng/kg	96		68-160		
123478-HxCDF	0.0234	U	0.0234	5.00	ng/kg	96		72-134		
123678-HxCDF	0.0512	J	0.0189	5.00	ng/kg	97		84-130		
123789-HxCDF	0.0857	J	0.0250	5.00	ng/kg	99		78-130		
234678-HxCDF	0.0555	J	0.0210	5.00	ng/kg	94		70-156		
1234678-HpCDF	0.128	J	0.0153	5.00	ng/kg	90		82-122		
1234789-HpCDF	0.0489	J	0.0291	5.00	ng/kg	96		78-138		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272258
Reported: 11/14/11 at 09:30 AM

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
OCDF	0.188	J	0.0680	10.0	ng/kg	96		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11301162401A	Sample number(s): 6443500,6443503-6443504 BKG: P443493								
Moisture Content by 160.3						3.9	3.8	1	20
Batch number: 11315162401A	Sample number(s): 6443501-6443502 BKG: P457197								
Moisture Content by 160.3						0.50 U	0.50 U	0 (1)	20
Batch number: 11300001	Sample number(s): 6443500-6443504 UNSPK: P437220								
2378-TCDD	103	109	67-158	2	25				
12378-PeCDD	101	102	70-142	3	25				
123478-HxCDD	99	96	70-164	6	25				
123678-HxCDD	92	93	76-134	3	25				
123789-HxCDD	101	101	64-162	3	25				
1234678-HpCDD	96	98	70-140	2	25				
OCDD	94	95	78-144	2	25				
2378-TCDF	98	94	75-158	8	25				
12378-PeCDF	99	100	80-134	2	25				
23478-PeCDF	95	94	68-160	5	25				
123478-HxCDF	97	96	72-134	4	25				
123678-HxCDF	96	97	84-130	3	25				
123789-HxCDF	99	99	78-130	4	25				
234678-HxCDF	95	96	70-156	3	25				
1234678-HpCDF	89	89	82-122	3	25				
1234789-HpCDF	95	94	78-138	5	25				
OCDF	96	95	63-170	5	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11297002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6443505	59	58	52	53	54	60
Blank	54	55	50	50	53	54
OPR	65	64	62	62	65	73
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6443505	53	54	52	55	55	57

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272258
Reported: 11/14/11 at 09:30 AM

Surrogate Quality Control

Blank	51	52	49	52	52	57
OPR	65	63	62	62	66	68
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6443505	56	56	54	63	57	
Blank	53	54	51	57	54	
OPR	67	68	66	67	66	
Limits:	28-130	23-140	17-157	24-169	24-185	

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11300001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6443500	67	62	55	66	63	57
6443501	78	68	59	73	73	64
6443502	76	70	59	73	69	67
6443503	87	83	64	79	77	74
6443504	78	69	60	72	74	67
Blank	58	52	46	57	53	52
MS	78	72	72	81	81	73
MSD	71	67	64	72	72	67
OPR	63	57	56	65	59	59
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6443500	76	50	46	67	72	73
6443501	88	59	57	78	86	85
6443502	88	60	54	77	80	82
6443503	97	63	57	91	87	92
6443504	87	59	58	77	85	85
Blank	69	45	42	59	62	65
MS	95	68	68	79	90	92
MSD	84	58	52	73	82	81
OPR	80	53	51	65	72	72
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6443500	72	71	68	65	71	
6443501	84	82	80	70	81	
6443502	81	82	80	73	83	
6443503	91	91	86	83	94	
6443504	82	80	82	74	80	
Blank	63	65	62	52	59	
MS	89	88	88	74	82	
MSD	80	79	76	69	75	
OPR	71	74	70	56	65	
Limits:	28-130	23-140	17-157	24-169	24-185	

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272258
Reported: 11/14/11 at 09:30 AM

Surrogate Quality Control

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1372258 Sample# 6443500-05

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Tetrahenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dioxonal EPA 8270	Other Instructions and Notes
SL-016-SA5DS-SB-4.0-5.0	10.19.11	0942	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X															
SL-143-SA7-SB-5.5	10.19.11	1005	SOIL	NONE	5-Encores										X	X	X											
SL-143-SA7-SB-5.0-6.0	10.19.11	0945	SOIL	NONE	1-SS Sleeve			X	X																			
SL-143-SA7-SB-5.0-6.0	10.19.11	0945	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X		
SL-143-SA7-SB-9.5	10.19.11	1045	SOIL	NONE	5-Encores										X	X	X											
SL-143-SA7-SB-9.0-10.0	10.19.11	1050	SOIL	NONE	1-SS Sleeve			X	X																			
SL-143-SA7-SB-9.0-10.0	10.19.11	1050	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X					X	X	X	X	X	X	X	X	X		
SL-142-SA7-SB-2.5	10.19.11	1511	SOIL	NONE	2-Encores												X											
SL-142-SA7-SB-2.0-3.0	10.19.11	1515	SOIL	NONE	1-SS Sleeve			X	X																			
SL-142-SA7-SB-2.0-3.0	10.19.11	1515	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X					X					X	X	X	X		
SL-142-SA7-SB-5.5	10.19.11	1520	SOIL	NONE	2-Encores												X											
SL-142-SA7-SB-7.0-8.0	10.19.11	1545	SOIL	NONE	1-SS Sleeve			X	X																			
SL-142-SA7-SB-7.0-8.0	10.19.11	1545	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X					X					X	X	X	X		
EB-SA7-SB-101911	10.19.11	1430	WATER	NONE	1-1 L Amber																X							HGL ASTM II WATER-HA crew
TB-101911	10.19.11	0800	WATER	NONE	1-1 L Amber																X							
TB-101911	10.19.11	0800	SOIL	NONE	1-4 oz Jar																X							
TB-101911	10.19.11	0800	WATER	NONE	4-40 mL Vials										X	X	X											

Relinquished by: (Signature) — Date/Time: 10/19/2011 / 1630 — Received for Laboratory by: (Signature) LLI 10/20/11 0915

Received by: (Signature) — Date/Time — Airbill No.(s): 8767 9857 5176,5187,3531

Laboratory: Lancaster Laboratories, Inc.

acct#13013 Qp# 1372258 Sample# 6443500 05

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
EB-SA7-SB-101911	10.19.11	1430	WATER	NONE	10-1 liter ambers			X	X	X						X			X	X		X			X	
EB-SA7-SB-101911	10.19.11	1430	WATER	NONE	1-500 mL poly		X				X	X	X													
EB-SA7-SB-101911	10.19.11	1430	WATER	HNO3	1-500 mL poly	X																				
EB-SA7-SB-101911	10.19.11	1430	WATER	NaOH	1-500 mL poly																X					
EB-SA7-SB-101911	10.19.11	1430	WATER	NONE	1-250 mL glass													X								
EB-SA7-SB-101911	10.19.11	1430	WATER	HCL	11-40 mL vials										X									X		
EB-SA7-SB-101911	10.19.11	1430	WATER	NONE	4-40 mL vials												X						X			

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	10/19/2011 / 1630	LLS 10/20/11 0915	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8767 9857 5176,5187,3531	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 18, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/21/2011
Group Number: 1272534
SDG: DE273
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-023-SA7-SB-2.0-3.0 Soil	6445463
SL-060-SA7-SB-2.5-3.5 Soil	6445464
SL-069-SA7-SB-2.5-3.5 Soil	6445465
SL-148-SA7-SB-0.0-1.0 Soil	6445466
SL-026-SA5DS-SB-4.0-5.0 Soil	6445467
SL-026-SA5DS-SB-9.0-10.0 Soil	6445468
SL-040-SA5DS-SB-4.0-5.0 Soil	6445469
SL-040-SA5DS-SB-9.0-10.0 Soil	6445470
SL-016-SA8S-SB-4.0-5.0 Soil	6445471
TB-102011 Water	6445473

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Sample Description: **SL-023-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA7-SB-2.0-3.0

LLI Sample # SW 6445463
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:18

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL023 SDG#: DE273-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-023-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA7-SB-2.0-3.0

LLI Sample # SW 6445463
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:18

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL023 SDG#: DE273-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.68	U	0.68	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.68	U	0.68	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	J	0.68	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.68	U	0.68	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	1.9		0.68	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18	1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18	1
10138	Chrysene	218-01-9	0.62	J	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7	1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18	1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.1	U	6.1	18	1
10138	Fluoranthene	206-44-0	0.68	U	0.68	1.7	1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7	1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18	1
10138	Phenanthrene	85-01-8	0.68	U	0.68	1.7	1
10138	Pyrene	129-00-0	0.68	U	0.68	1.7	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.3	J	0.2	1.1	25.46
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-023-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA7-SB-2.0-3.0

LLI Sample # SW 6445463
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:18

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL023 SDG#: DE273-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520	1
10501	Isopropanol	67-63-0	100	U	100	520	1
10501	Methanol	67-56-1	100	U	100	520	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10	1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10	1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.6	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.6	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.6	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.66	J	0.41	1.2	1
10199	EFH (C15-C20)	n.a.	2.8		0.41	1.2	1
10199	EFH (C21-C30)	n.a.	13		0.41	1.2	1
10199	EFH (C30 - C40)	n.a.	22		0.41	1.2	1
10199	EFH (C8-C11)	n.a.	0.41	U	0.41	1.2	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,100		5.97	19.7	1
07914	Boron	7440-42-8	6.14		0.355	4.93	1
01650	Calcium	7440-70-2	2,530		2.47	19.7	1
01654	Iron	7439-89-6	19,000		2.58	19.7	1
01656	Lithium	7439-93-2	27.2		0.61	2.0	1
01657	Magnesium	7439-95-4	4,510		0.434	9.87	1
06958	Manganese	7439-96-5	303		0.0355	0.493	1
10145	Phosphorus	7723-14-0	400		0.345	9.87	1
01662	Potassium	7440-09-7	3,000		11.2	49.3	1
01667	Sodium	7440-23-5	73.6	J	5.87	98.7	1
07968	Strontium	7440-24-6	14.0		0.0247	0.493	1
06969	Tin	7440-31-5	2.51	J	0.316	9.87	1
06970	Titanium	7440-32-6	1,060		0.0701	0.987	1
10146	Zirconium	7440-67-7	3.26	J	0.454	4.93	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-023-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA7-SB-2.0-3.0

LLI Sample # SW 6445463
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:18

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL023 SDG#: DE273-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0767	U	0.0767	0.207	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.51		0.0829	0.415	2
06126	Barium	7440-39-3	81.9		0.110	0.415	2
06127	Beryllium	7440-41-7	0.467		0.0166	0.104	2
06128	Cadmium	7440-43-9	0.149		0.0456	0.104	2
06131	Chromium	7440-47-3	14.7		0.124	0.415	2
06132	Cobalt	7440-48-4	5.10		0.0207	0.104	2
06133	Copper	7440-50-8	6.73		0.0829	0.415	2
06135	Lead	7439-92-1	4.68		0.0106	0.207	2
06138	Molybdenum	7439-98-7	0.457		0.0518	0.104	2
06139	Nickel	7440-02-0	9.30		0.104	0.415	2
06141	Selenium	7782-49-2	0.137	J	0.0601	0.415	2
06142	Silver	7440-22-4	0.0253	J	0.0147	0.104	2
06145	Thallium	7440-28-0	0.243		0.0311	0.104	2
06148	Vanadium	7440-62-2	29.5		0.0228	0.104	2
06149	Zinc	7440-66-6	55.9		0.580	3.11	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0072	U	0.0072	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1		0.82	1.0	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.4		0.82	1.5	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.58		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	3.5		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-023-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-023-SA7-SB-2.0-3.0

LLI Sample # SW 6445463
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:18

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL023 SDG#: DE273-01

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-023-SA7-SB-2.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11295SLA026	10/26/2011 22:57	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11295SLC026	10/25/2011 15:01	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11295SLC026	10/24/2011 11:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11295SLA026	10/24/2011 10:05	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11299A16A	10/27/2011 16:24	Laura M Krieger	25.46
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201129425935	10/21/2011 15:05	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201129425935	10/21/2011 15:06	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 05:31	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112970037A	10/25/2011 22:12	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112980042A	10/26/2011 00:33	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112990013A	11/02/2011 16:34	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	113000011A	10/29/2011 01:13	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	113000011A	10/27/2011 18:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112990013A	10/26/2011 17:30	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112970037A	10/25/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112980042A	10/25/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 07:25	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-023-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA7-SB-2.0-3.0

LLI Sample # SW 6445463
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:18

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL023 SDG#: DE273-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 19:38	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 19:38	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 19:38	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 19:38	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:13	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203A	11/03/2011 18:45	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11306621203A	11/03/2011 18:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621201B	11/03/2011 18:24	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11305243201A	11/04/2011 16:07	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11300102201A	10/28/2011 08:45	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203A	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621201B	10/25/2011 06:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11300102201A	10/27/2011 10:15	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403A	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401B	10/28/2011 22:37	Lisa J Cooke	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-060-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA7-SB-2.5-3.5

LLI Sample # SW 6445464
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:05

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL060 SDG#: DE273-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-060-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA7-SB-2.5-3.5

LLI Sample # SW 6445464
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:05

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL060 SDG#: DE273-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.2	U	6.2	19	1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0	24.51
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-060-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA7-SB-2.5-3.5

LLI Sample # SW 6445464
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:05

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL060 SDG#: DE273-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520	1
10501	Isopropanol	67-63-0	100	U	100	520	1
10501	Methanol	67-56-1	100	U	100	520	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10	1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10	1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3	1
10199	EFH (C15-C20)	n.a.	0.83	J	0.42	1.3	1
10199	EFH (C21-C30)	n.a.	4.3		0.42	1.3	1
10199	EFH (C30 - C40)	n.a.	8.2		0.42	1.3	1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,400		6.21	20.5	1
07914	Boron	7440-42-8	5.18		0.370	5.13	1
01650	Calcium	7440-70-2	2,240		2.57	20.5	1
01654	Iron	7439-89-6	17,200		2.68	20.5	1
01656	Lithium	7439-93-2	17.2		0.64	2.1	1
01657	Magnesium	7439-95-4	3,820		0.452	10.3	1
06958	Manganese	7439-96-5	168		0.0370	0.513	1
10145	Phosphorus	7723-14-0	98.7		0.359	10.3	1
01662	Potassium	7440-09-7	945		11.6	51.3	1
01667	Sodium	7440-23-5	156		6.11	103	1
07968	Strontium	7440-24-6	15.5		0.0257	0.513	1
06969	Tin	7440-31-5	2.62	J	0.329	10.3	1
06970	Titanium	7440-32-6	968		0.0729	1.03	1
10146	Zirconium	7440-67-7	2.54	J	0.472	5.13	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-060-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA7-SB-2.5-3.5

LLI Sample # SW 6445464
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:05

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL060 SDG#: DE273-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0752	U	0.0752	0.203	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	2.76		0.0813	0.407	2
06126	Barium	7440-39-3	36.1		0.108	0.407	2
06127	Beryllium	7440-41-7	0.398		0.0163	0.102	2
06128	Cadmium	7440-43-9	0.0447	U	0.0447	0.102	2
06131	Chromium	7440-47-3	13.9		0.122	0.407	2
06132	Cobalt	7440-48-4	3.37		0.0203	0.102	2
06133	Copper	7440-50-8	4.05		0.0813	0.407	2
06135	Lead	7439-92-1	2.85		0.0104	0.203	2
06138	Molybdenum	7439-98-7	0.226		0.0508	0.102	2
06139	Nickel	7440-02-0	10.8		0.102	0.407	2
06141	Selenium	7782-49-2	0.0657	J	0.0590	0.407	2
06142	Silver	7440-22-4	0.0206	J	0.0144	0.102	2
06145	Thallium	7440-28-0	0.144		0.0305	0.102	2
06148	Vanadium	7440-62-2	25.5		0.0224	0.102	2
06149	Zinc	7440-66-6	27.1		0.569	3.05	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	U	0.0071	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.2		0.83	1.0	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.4	J	0.83	1.6	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.68		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.5		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-060-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA7-SB-2.5-3.5

LLI Sample # SW 6445464
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:05

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL060 SDG#: DE273-02

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-060-SA7-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11295SLA026	10/26/2011 23:22	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11295SLC026	10/25/2011 15:33	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11295SLC026	10/24/2011 11:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11295SLA026	10/24/2011 10:05	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11299A16A	10/26/2011 22:29	Laura M Krieger	24.51
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201129425935	10/21/2011 15:07	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201129425935	10/21/2011 15:07	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 05:49	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112970037A	10/25/2011 22:29	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112980042A	10/26/2011 00:46	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112990013A	11/02/2011 15:48	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	113000011A	10/29/2011 00:02	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	113000011A	10/27/2011 18:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112990013A	10/26/2011 17:30	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112970037A	10/25/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112980042A	10/25/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 07:37	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-060-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA7-SB-2.5-3.5

LLI Sample # SW 6445464
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:05

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL060 SDG#: DE273-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 19:41	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 19:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 19:41	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 19:41	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:15	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203A	11/03/2011 19:44	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11306621203A	11/03/2011 19:44	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621201B	11/03/2011 19:28	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11305243201A	11/04/2011 10:35	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11300102201A	10/28/2011 08:46	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203A	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621201B	10/25/2011 06:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11300102201A	10/27/2011 10:15	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403A	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401B	10/28/2011 22:37	Lisa J Cooke	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-069-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA7-SB-2.5-3.5

LLI Sample # SW 6445465
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:23

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL069 SDG#: DE273-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-069-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-069-SA7-SB-2.5-3.5

LLI Sample # SW 6445465
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:23

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL069 SDG#: DE273-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.68	U	0.68	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.68	U	0.68	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.68	U	0.68	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.68	U	0.68	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.79	J	0.68	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18	1
10138	Di-n-butylphthalate	84-74-2	6.1	U	6.1	18	1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.68	U	0.68	1.7	1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18	1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.2	J	6.1	18	1
10138	Fluoranthene	206-44-0	0.68	U	0.68	1.7	1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.68	U	0.68	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7	1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18	1
10138	Phenanthrene	85-01-8	0.68	U	0.68	1.7	1
10138	Pyrene	129-00-0	0.68	U	0.68	1.7	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1	26.65
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-069-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA7-SB-2.5-3.5

LLI Sample # SW 6445465
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:23

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL069 SDG#: DE273-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520	1
10501	Isopropanol	67-63-0	100	U	100	520	1
10501	Methanol	67-56-1	100	U	100	520	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10	1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10	1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.6	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.6	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.6	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3	1
10199	EFH (C15-C20)	n.a.	0.53	J	0.42	1.3	1
10199	EFH (C21-C30)	n.a.	6.5		0.42	1.3	1
10199	EFH (C30 - C40)	n.a.	12		0.42	1.3	1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,700		6.18	20.4	1
07914	Boron	7440-42-8	5.96		0.368	5.11	1
01650	Calcium	7440-70-2	2,750		2.55	20.4	1
01654	Iron	7439-89-6	23,500		2.67	20.4	1
01656	Lithium	7439-93-2	25.2		0.63	2.0	1
01657	Magnesium	7439-95-4	6,180		0.449	10.2	1
06958	Manganese	7439-96-5	322		0.0368	0.511	1
10145	Phosphorus	7723-14-0	359		0.357	10.2	1
01662	Potassium	7440-09-7	3,780		11.5	51.1	1
01667	Sodium	7440-23-5	78.9	J	6.08	102	1
07968	Strontium	7440-24-6	14.3		0.0255	0.511	1
06969	Tin	7440-31-5	2.68	J	0.327	10.2	1
06970	Titanium	7440-32-6	1,240		0.0725	1.02	1
10146	Zirconium	7440-67-7	3.10	J	0.470	5.11	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-069-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-069-SA7-SB-2.5-3.5

LLI Sample # SW 6445465
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:23

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL069 SDG#: DE273-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0771	U	0.0771	0.208	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.63		0.0833	0.417	2
06126	Barium	7440-39-3	82.7		0.110	0.417	2
06127	Beryllium	7440-41-7	0.585		0.0167	0.104	2
06128	Cadmium	7440-43-9	0.0879	J	0.0458	0.104	2
06131	Chromium	7440-47-3	22.9		0.125	0.417	2
06132	Cobalt	7440-48-4	6.74		0.0208	0.104	2
06133	Copper	7440-50-8	10.0		0.0833	0.417	2
06135	Lead	7439-92-1	4.83		0.0106	0.208	2
06138	Molybdenum	7439-98-7	0.347		0.0521	0.104	2
06139	Nickel	7440-02-0	15.8		0.104	0.417	2
06141	Selenium	7782-49-2	0.132	J	0.0604	0.417	2
06142	Silver	7440-22-4	0.0376	J	0.0148	0.104	2
06145	Thallium	7440-28-0	0.263		0.0313	0.104	2
06148	Vanadium	7440-62-2	43.1		0.0229	0.104	2
06149	Zinc	7440-66-6	56.4		0.583	3.13	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0070	U	0.0070	0.0992	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.84	U	0.84	1.1	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.8		0.84	1.6	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.87		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.0		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

*=This limit was used in the evaluation of the final result

Sample Description: SL-069-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-069-SA7-SB-2.5-3.5

LLI Sample # SW 6445465
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:23

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL069 SDG#: DE273-03

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-069-SA7-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11295SLA026	10/26/2011 23:47	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11295SLC026	10/25/2011 16:05	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11295SLC026	10/24/2011 11:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11295SLA026	10/24/2011 10:05	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11299A16A	10/26/2011 23:07	Laura M Krieger	26.65
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201129425935	10/21/2011 15:08	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201129425935	10/21/2011 15:09	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 06:08	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112970037A	10/25/2011 22:45	Elizabeth J Marin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112970037A	10/26/2011 17:41	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112980042A	10/26/2011 00:59	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112990013A	11/02/2011 15:26	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	113000011A	10/29/2011 00:25	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	113000011A	10/27/2011 18:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112990013A	10/26/2011 17:30	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112970037A	10/25/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112980042A	10/25/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 07:41	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-069-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-069-SA7-SB-2.5-3.5

LLI Sample # SW 6445465
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:23

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL069 SDG#: DE273-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 19:50	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 19:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 19:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 19:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:16	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203A	11/03/2011 19:55	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11306621203A	11/03/2011 19:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621201B	11/03/2011 19:49	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11305243201A	11/04/2011 10:41	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11300102201A	10/28/2011 08:47	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203A	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621201B	10/25/2011 06:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11300102201A	10/27/2011 10:15	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403A	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401B	10/28/2011 22:37	Lisa J Cooke	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-148-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA7-SB-0.0-1.0

LLI Sample # SW 6445466
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 14:23

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL148 SDG#: DE273-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	70	U	70	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	70	U	70	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-148-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA7-SB-0.0-1.0

LLI Sample # SW 6445466
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 14:23

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL148 SDG#: DE273-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	1.1	J	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.8	J	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	8.1	J	6.2	19	1
10138	Chrysene	218-01-9	0.38	J	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J	6.2	19	1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5	1
10225	Aroclor 5460	11126-42-4	1.4	J	1.0	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-148-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA7-SB-0.0-1.0

LLI Sample # SW 6445466
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 14:23

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL148 SDG#: DE273-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530	1
10501	Isopropanol	67-63-0	110	U	110	530	1
10501	Methanol	67-56-1	110	U	110	530	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11	1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11	1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3	1
10199	EFH (C15-C20)	n.a.	0.71	J	0.42	1.3	1
10199	EFH (C21-C30)	n.a.	5.4		0.42	1.3	1
10199	EFH (C30 - C40)	n.a.	13		0.42	1.3	1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,100		6.24	20.6	1
07914	Boron	7440-42-8	4.61	J	0.371	5.15	1
01650	Calcium	7440-70-2	2,570		2.58	20.6	1
01654	Iron	7439-89-6	19,700		2.69	20.6	1
01656	Lithium	7439-93-2	21.6		0.64	2.1	1
01657	Magnesium	7439-95-4	4,600		0.454	10.3	1
06958	Manganese	7439-96-5	253		0.0371	0.515	1
10145	Phosphorus	7723-14-0	258		0.361	10.3	1
01662	Potassium	7440-09-7	2,220		11.6	51.5	1
01667	Sodium	7440-23-5	74.8	J	6.13	103	1
07968	Strontium	7440-24-6	14.7		0.0258	0.515	1
06969	Tin	7440-31-5	2.69	J	0.330	10.3	1
06970	Titanium	7440-32-6	982		0.0732	1.03	1
10146	Zirconium	7440-67-7	2.66	J	0.474	5.15	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0741	U	0.0741	0.200	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.44		0.0801	0.401	2
06126	Barium	7440-39-3	82.5		0.106	0.401	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-148-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA7-SB-0.0-1.0

LLI Sample # SW 6445466
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 14:23

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL148 SDG#: DE273-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.607	0.0160	0.100	2
06128	Cadmium	7440-43-9	0.0780 J	0.0441	0.100	2
06131	Chromium	7440-47-3	18.2	0.120	0.401	2
06132	Cobalt	7440-48-4	6.03	0.0200	0.100	2
06133	Copper	7440-50-8	7.01	0.0801	0.401	2
06135	Lead	7439-92-1	5.48	0.0102	0.200	2
06138	Molybdenum	7439-98-7	0.466	0.0501	0.100	2
06139	Nickel	7440-02-0	11.7	0.100	0.401	2
06141	Selenium	7782-49-2	0.147 J	0.0581	0.401	2
06142	Silver	7440-22-4	0.0344 J	0.0142	0.100	2
06145	Thallium	7440-28-0	0.227	0.0300	0.100	2
06148	Vanadium	7440-62-2	35.8	0.0220	0.100	2
06149	Zinc	7440-66-6	52.2	0.561	3.00	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073 U	0.0073	0.104	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1	0.84	1.1	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9	0.84	1.6	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5 U	9.5	31.5	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.27 J	0.21	1.0	1
	SW-846 9012B		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.53	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.69	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.9	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: SL-148-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA7-SB-0.0-1.0

LLI Sample # SW 6445466
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 14:23

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14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL148 SDG#: DE273-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11295SLA026	10/27/2011 00:12	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11295SLC026	10/26/2011 01:14	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11295SLC026	10/24/2011 11:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11295SLA026	10/24/2011 10:05	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 06:27	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112970037A	10/25/2011 23:02	Elizabeth J Marin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	112970037A	10/26/2011 17:57	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	112980042A	10/26/2011 01:12	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	112990013A	11/02/2011 15:04	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	113000011A	10/29/2011 00:49	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	113000011A	10/27/2011 18:00	David S Schrum	1
10303	Terphenyls soil prep	SW-846 3550B	1	112990013A	10/26/2011 17:30	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	112970037A	10/25/2011 21:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	112980042A	10/25/2011 18:25	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 07:45	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 19:53	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 19:53	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 19:53	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-148-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-148-SA7-SB-0.0-1.0

LLI Sample # SW 6445466
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 14:23

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL148 SDG#: DE273-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 19:53	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:17	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203A	11/03/2011 20:07	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11306621203A	11/03/2011 20:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621201B	11/03/2011 20:10	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11305243201A	11/04/2011 11:02	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11300102201A	10/28/2011 08:48	K Robert Caulfeild-James	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203A	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621201B	10/25/2011 06:05	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11300102201A	10/27/2011 10:15	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403A	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401B	10/28/2011 22:37	Lisa J Cooke	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-026-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445467
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 12:37

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL264 SDG#: DE273-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-026-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445467
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 12:37

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL264 SDG#: DE273-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	8.2	J	6.4	19	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.1	J	6.4	19	1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8	1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.4	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	0.65	J	0.36	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1

The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS is outside the QC limits. Results

*=This limit was used in the evaluation of the final result

Sample Description: **SL-026-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445467
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 12:37

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL264 SDG#: DE273-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	20,700		6.51	21.5	1
07914	Boron	7440-42-8	13.4		0.387	5.38	1
01650	Calcium	7440-70-2	5,730		2.69	21.5	1
01654	Iron	7439-89-6	28,500		14.0	108	5
01656	Lithium	7439-93-2	40.0		0.67	2.2	1
01657	Magnesium	7439-95-4	8,240		0.474	10.8	1
06958	Manganese	7439-96-5	323		0.0387	0.538	1
10145	Phosphorus	7723-14-0	588		0.377	10.8	1
01662	Potassium	7440-09-7	4,200		12.2	53.8	1
01667	Sodium	7440-23-5	164		6.40	108	1
07968	Strontium	7440-24-6	23.1		0.0269	0.538	1
06969	Tin	7440-31-5	2.74	J	0.344	10.8	1
06970	Titanium	7440-32-6	1,380		0.0764	1.08	1
10146	Zirconium	7440-67-7	7.39		0.495	5.38	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0804	U	0.0804	0.217	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.73		0.0870	0.435	2
06126	Barium	7440-39-3	70.5		0.115	0.435	2
06127	Beryllium	7440-41-7	0.578		0.0174	0.109	2
06128	Cadmium	7440-43-9	0.0890	J	0.0478	0.109	2
06131	Chromium	7440-47-3	27.9		0.130	0.435	2
06132	Cobalt	7440-48-4	8.63		0.0217	0.109	2
06133	Copper	7440-50-8	10.8		0.0870	0.435	2
06135	Lead	7439-92-1	6.65		0.0111	0.217	2
06138	Molybdenum	7439-98-7	0.303		0.0543	0.109	2
06139	Nickel	7440-02-0	14.4		0.109	0.435	2
06141	Selenium	7782-49-2	0.206	J	0.0630	0.435	2
06142	Silver	7440-22-4	0.0154	U	0.0154	0.109	2
06145	Thallium	7440-28-0	0.269		0.0326	0.109	2
06148	Vanadium	7440-62-2	56.7		0.0239	0.109	2
06149	Zinc	7440-66-6	67.9		0.609	3.26	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076	U	0.0076	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.7		0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.6	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-026-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445467
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 12:37

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL264 SDG#: DE273-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		mg/kg		mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.20		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	
11624	Moisture Content by 160.3	n.a.	8.0		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11295SLA026	10/27/2011 00:37	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11295SLC026	10/26/2011 01:47	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11295SLC026	10/24/2011 11:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11295SLA026	10/24/2011 10:05	Denise L Trimby	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	112980018A	10/26/2011 19:33	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 06:46	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	112980018A	10/26/2011 09:00	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 17:20	John P Hook	5
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-026-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445467
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 12:37

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL264 SDG#: DE273-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 07:49	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 19:56	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 19:56	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 19:56	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 19:56	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:18	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203A	11/03/2011 20:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621201B	11/03/2011 20:31	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11305243201A	11/04/2011 11:08	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203A	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621201B	10/25/2011 06:05	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403A	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401B	10/28/2011 22:37	Lisa J Cooke	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-026-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445468
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:55

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL269 SDG#: DE273-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-026-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445468
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:55

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL269 SDG#: DE273-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19	1
10138	Di-n-butylphthalate	84-74-2	8.0	J	6.5	19	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	11	J	6.5	19	1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	1.8	J	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1

The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-026-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445468
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:55

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL269 SDG#: DE273-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,100		6.64	22.0	1
07914	Boron	7440-42-8	17.5		0.395	5.49	1
01650	Calcium	7440-70-2	6,120		2.74	22.0	1
01654	Iron	7439-89-6	37,300		14.3	110	5
01656	Lithium	7439-93-2	52.9		0.68	2.2	1
01657	Magnesium	7439-95-4	10,500		0.483	11.0	1
06958	Manganese	7439-96-5	250		0.0395	0.549	1
10145	Phosphorus	7723-14-0	613		0.384	11.0	1
01662	Potassium	7440-09-7	6,250		12.4	54.9	1
01667	Sodium	7440-23-5	209		6.53	110	1
07968	Strontium	7440-24-6	31.9		0.0274	0.549	1
06969	Tin	7440-31-5	2.98	J	0.351	11.0	1
06970	Titanium	7440-32-6	1,590		0.0779	1.10	1
10146	Zirconium	7440-67-7	7.92		0.505	5.49	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0880	J	0.0812	0.220	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.86		0.0878	0.439	2
06126	Barium	7440-39-3	103		0.116	0.439	2
06127	Beryllium	7440-41-7	0.762		0.0176	0.110	2
06128	Cadmium	7440-43-9	0.108	J	0.0483	0.110	2
06131	Chromium	7440-47-3	35.9		0.132	0.439	2
06132	Cobalt	7440-48-4	8.11		0.0220	0.110	2
06133	Copper	7440-50-8	20.6		0.0878	0.439	2
06135	Lead	7439-92-1	9.82		0.0112	0.220	2
06138	Molybdenum	7439-98-7	0.165		0.0549	0.110	2
06139	Nickel	7440-02-0	22.5		0.110	0.439	2
06141	Selenium	7782-49-2	0.344	J	0.0637	0.439	2
06142	Silver	7440-22-4	0.0195	J	0.0156	0.110	2
06145	Thallium	7440-28-0	0.395		0.0329	0.110	2
06148	Vanadium	7440-62-2	67.2		0.0241	0.110	2
06149	Zinc	7440-66-6	98.9		0.615	3.29	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0142	J	0.0077	0.109	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	9.1		0.88	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-026-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445468
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:55

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL269 SDG#: DE273-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.13	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	8.9	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11295SLA026	10/27/2011 01:02	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11295SLC026	10/26/2011 02:19	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11295SLC026	10/24/2011 11:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11295SLA026	10/24/2011 10:05	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 07:04	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 17:23	John P Hook	5
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 07:53	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 19:59	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-026-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445468
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:55

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL269 SDG#: DE273-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/31/2011 06:46	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 19:59	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 19:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:19	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203A	11/03/2011 20:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11298621201B	11/04/2011 13:58	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11305243201A	11/04/2011 11:22	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203A	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621201B	10/25/2011 06:05	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403A	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401B	10/28/2011 22:37	Lisa J Cooke	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445469
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 10:01

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL404 SDG#: DE273-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-040-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445469
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 10:01

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL404 SDG#: DE273-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	7.7	J	6.4	19	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.3	J	6.4	19	1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	31,000		6.53	21.6	1
07914	Boron	7440-42-8	12.2		0.389	5.40	1
01650	Calcium	7440-70-2	3,610		2.70	21.6	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-040-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445469
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 10:01

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL404 SDG#: DE273-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**	**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	33,900	14.1	108	5
01656	Lithium	7439-93-2	31.3	0.67	2.2	1
01657	Magnesium	7439-95-4	7,700	0.475	10.8	1
06958	Manganese	7439-96-5	295	0.0389	0.540	1
10145	Phosphorus	7723-14-0	372	0.378	10.8	1
01662	Potassium	7440-09-7	3,930	12.2	54.0	1
01667	Sodium	7440-23-5	903	6.42	108	1
07968	Strontium	7440-24-6	34.3	0.0270	0.540	1
06969	Tin	7440-31-5	2.92 J	0.346	10.8	1
06970	Titanium	7440-32-6	1,330	0.0767	1.08	1
10146	Zirconium	7440-67-7	8.67	0.497	5.40	1
	SW-846 6020		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0827 J	0.0799	0.216	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	6.45	0.0864	0.432	2
06126	Barium	7440-39-3	107	0.114	0.432	2
06127	Beryllium	7440-41-7	0.852	0.0173	0.108	2
06128	Cadmium	7440-43-9	0.0595 J	0.0475	0.108	2
06131	Chromium	7440-47-3	36.9	0.130	0.432	2
06132	Cobalt	7440-48-4	10.5	0.0216	0.108	2
06133	Copper	7440-50-8	12.8	0.0864	0.432	2
06135	Lead	7439-92-1	8.46	0.0110	0.216	2
06138	Molybdenum	7439-98-7	0.606	0.0540	0.108	2
06139	Nickel	7440-02-0	19.5	0.108	0.432	2
06141	Selenium	7782-49-2	0.112 J	0.0626	0.432	2
06142	Silver	7440-22-4	0.0407 J	0.0153	0.108	2
06145	Thallium	7440-28-0	0.353	0.0324	0.108	2
06148	Vanadium	7440-62-2	70.5	0.0238	0.108	2
06149	Zinc	7440-66-6	69.5	0.605	3.24	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076 U	0.0076	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	25.0	0.88	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8 U	9.8	32.7	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	3.2	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445469
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 10:01

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL404 SDG#: DE273-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.05	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	8.3	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11295SLA026	10/27/2011 01:28	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11295SLC026	10/26/2011 02:52	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11295SLC026	10/24/2011 11:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11295SLA026	10/24/2011 10:05	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 07:23	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 17:27	John P Hook	5
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 07:57	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 20:02	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA5DS-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445469
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 10:01

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL404 SDG#: DE273-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 20:02	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 20:02	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 20:02	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:21	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203A	11/03/2011 20:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621201B	11/03/2011 21:34	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11305243201A	11/04/2011 11:35	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203A	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621201B	10/25/2011 06:05	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403A	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401B	10/28/2011 22:37	Lisa J Cooke	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445470
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:20

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL409 SDG#: DE273-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-040-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445470
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:20

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL409 SDG#: DE273-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	7.7	J	6.3	19	1
10138	Chrysene	218-01-9	0.35	U	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.4	J	6.3	19	1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	23,800		6.38	21.1	1
07914	Boron	7440-42-8	9.92		0.380	5.27	1
01650	Calcium	7440-70-2	3,970		2.64	21.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-040-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445470
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:20

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL409 SDG#: DE273-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	31,200		13.8	105	5
01656	Lithium	7439-93-2	30.1		0.65	2.1	1
01657	Magnesium	7439-95-4	7,470		0.464	10.5	1
06958	Manganese	7439-96-5	339		0.0380	0.527	1
10145	Phosphorus	7723-14-0	467		0.369	10.5	1
01662	Potassium	7440-09-7	2,760		11.9	52.7	1
01667	Sodium	7440-23-5	848		6.27	105	1
07968	Strontium	7440-24-6	28.2		0.0264	0.527	1
06969	Tin	7440-31-5	2.92	J	0.337	10.5	1
06970	Titanium	7440-32-6	1,240		0.0748	1.05	1
10146	Zirconium	7440-67-7	8.22		0.485	5.27	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0796	U	0.0796	0.215	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.47		0.0860	0.430	2
06126	Barium	7440-39-3	90.8		0.114	0.430	2
06127	Beryllium	7440-41-7	0.729		0.0172	0.108	2
06128	Cadmium	7440-43-9	0.0473	U	0.0473	0.108	2
06131	Chromium	7440-47-3	39.9		0.129	0.430	2
06132	Cobalt	7440-48-4	10.7		0.0215	0.108	2
06133	Copper	7440-50-8	10.4		0.0860	0.430	2
06135	Lead	7439-92-1	7.86		0.0110	0.215	2
06138	Molybdenum	7439-98-7	0.471		0.0538	0.108	2
06139	Nickel	7440-02-0	19.3		0.108	0.430	2
06141	Selenium	7782-49-2	0.164	J	0.0624	0.430	2
06142	Silver	7440-22-4	0.0203	J	0.0153	0.108	2
06145	Thallium	7440-28-0	0.280		0.0323	0.108	2
06148	Vanadium	7440-62-2	67.5		0.0237	0.108	2
06149	Zinc	7440-66-6	62.7		0.602	3.23	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0141	J	0.0074	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	17.1		0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445470
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:20

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL409 SDG#: DE273-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.35	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	7.0	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11295SLA026	10/27/2011 01:53	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11295SLC026	10/26/2011 03:24	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11295SLC026	10/24/2011 11:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11295SLA026	10/24/2011 10:05	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 07:42	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 17:31	John P Hook	5
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 08:01	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 20:05	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-040-SA5DS-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445470
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:20

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Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL409 SDG#: DE273-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 20:05	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 20:05	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 20:05	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:22	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203A	11/03/2011 20:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11298621201B	11/04/2011 14:40	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11305243201A	11/04/2011 11:49	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203A	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621201B	10/25/2011 06:05	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403A	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401B	10/28/2011 22:37	Lisa J Cooke	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-016-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8S-SB-4.0-5.0

LLI Sample # SW 6445471
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:08

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL016 SDG#: DE273-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-016-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8S-SB-4.0-5.0

LLI Sample # SW 6445471
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:08

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL016 SDG#: DE273-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	13	J	6.5	19	1
10138	Di-n-butylphthalate	84-74-2	8.2	J	6.5	19	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.5	J	6.5	19	1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,400		6.63	21.9	1
07914	Boron	7440-42-8	9.65		0.395	5.48	1
01650	Calcium	7440-70-2	11,200		2.74	21.9	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-016-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA8S-SB-4.0-5.0

LLI Sample # SW 6445471
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:08

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL016 SDG#: DE273-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	23,900		2.86	21.9	1
01656	Lithium	7439-93-2	24.6		0.68	2.2	1
01657	Magnesium	7439-95-4	4,600		0.482	11.0	1
06958	Manganese	7439-96-5	403		0.0395	0.548	1
10145	Phosphorus	7723-14-0	300		0.384	11.0	1
01662	Potassium	7440-09-7	3,940		12.4	54.8	1
01667	Sodium	7440-23-5	83.0	J	6.52	110	1
07968	Strontium	7440-24-6	21.1		0.0274	0.548	1
06969	Tin	7440-31-5	2.71	J	0.351	11.0	1
06970	Titanium	7440-32-6	1,150		0.0779	1.10	1
10146	Zirconium	7440-67-7	4.78	J	0.504	5.48	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0780	U	0.0780	0.211	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.12		0.0843	0.422	2
06126	Barium	7440-39-3	116		0.112	0.422	2
06127	Beryllium	7440-41-7	0.735		0.0169	0.105	2
06128	Cadmium	7440-43-9	0.176		0.0464	0.105	2
06131	Chromium	7440-47-3	22.5		0.127	0.422	2
06132	Cobalt	7440-48-4	8.16		0.0211	0.105	2
06133	Copper	7440-50-8	12.1		0.0843	0.422	2
06135	Lead	7439-92-1	6.92		0.0108	0.211	2
06138	Molybdenum	7439-98-7	0.490		0.0527	0.105	2
06139	Nickel	7440-02-0	16.1		0.105	0.422	2
06141	Selenium	7782-49-2	0.0647	J	0.0612	0.422	2
06142	Silver	7440-22-4	0.0377	J	0.0150	0.105	2
06145	Thallium	7440-28-0	0.313		0.0316	0.105	2
06148	Vanadium	7440-62-2	43.7		0.0232	0.105	2
06149	Zinc	7440-66-6	62.0		0.590	3.16	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0072	U	0.0072	0.103	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	3.1		0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-016-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-016-SA8S-SB-4.0-5.0

LLI Sample # SW 6445471
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:08

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL016 SDG#: DE273-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.17	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	8.8	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11295SLA026	10/27/2011 02:19	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11295SLC026	10/26/2011 03:57	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11295SLC026	10/24/2011 11:30	Olivia Arosemena	1
00381	BNA Soil Sonication	SW-846 3550B	1	11295SLA026	10/24/2011 10:05	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 08:01	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 08:05	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 20:08	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 20:08	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 20:08	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 20:08	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-016-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA8S-SB-4.0-5.0

LLI Sample # SW 6445471
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:08

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SL016 SDG#: DE273-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 20:08	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 20:08	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 20:08	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 20:08	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 20:08	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 20:08	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 20:08	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 20:08	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 20:08	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 20:08	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 20:08	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 20:08	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:26	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203A	11/03/2011 21:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	2	11298621201B	11/04/2011 15:01	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11305243201A	11/04/2011 12:15	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203A	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621201B	10/25/2011 06:05	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403A	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401B	10/28/2011 22:37	Lisa J Cooke	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: TB-102011 Water
SSFL Area IV Collocated Soil Sampling
TB-102011

LLI Sample # WW 6445473
LLI Group # 1272534
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 08:00

Submitted: 10/21/2011 09:15
Reported: 11/18/2011 12:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

TB120 SDG#: DE273-11TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11300A20A	10/27/2011 17:05	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	11300A20A	10/27/2011 17:05	Catherine J Schwarz	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272534
Reported: 11/18/11 at 12:00 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11295SLA026	Sample number(s): 6445463-6445471									
Aniline	170 U		170.	500	ug/kg	63		20-115		
Benzidine	1,200 U		1,200.	3,300	ug/kg	43		15-121		
Benzoic acid	170 U		170.	500	ug/kg	85		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	93		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	95		73-114		
Carbazole	17	U	17.	170	ug/kg	101		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	100		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	42		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	92		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	87		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	85		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	71		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	92		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	96		74-115		
Dibenzofuran	17	U	17.	170	ug/kg	93		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	85		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	82		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	83		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	33		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	97		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	95		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	100		83-120		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	77		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	76		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	105		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	103		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	96		71-125		
Hexachlorobenzene	17	U	17.	170	ug/kg	96		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	87		65-117		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	84		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	82		61-109		
Isophorone	17	U	17.	170	ug/kg	92		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	93		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	93		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	102		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	96		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	81		49-98		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272534
Reported: 11/18/11 at 12:00 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Nitrobenzene	17	U	17.	170	ug/kg	91		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	89		76-111		
4-Nitrophenol	170 U		170.	500	ug/kg	100		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	85		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	100		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	100		51-117		
Phenol	17	U	17.	170	ug/kg	96		58-112		
Tetralin	170 U		170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	90		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	97		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	101		78-111		
Batch number: 11295SLC026	Sample number(s): 6445463-6445471									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	89		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	81		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	88		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	93		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	86		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	91		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	106		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	94		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	86		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	86		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	94		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	104		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	87		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	89		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	96		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	91		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	90		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	103		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	84		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	84		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	86		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	94		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	99		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	88		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	95		72-119		
Batch number: 11299A16A	Sample number(s): 6445463-6445465									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	74	75	67-119	2	30
Batch number: 11300A20A	Sample number(s): 6445473									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 112980018A	Sample number(s): 6445467									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	100		85-115		
Batch number: 112990025A	Sample number(s): 6445463-6445471									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	85	61	36-106	32*	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	117		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272534
Reported: 11/18/11 at 12:00 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	153*		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112970037A	Sample number(s): 6445463-6445466									
Ethanol	100	U	100.	500	ug/kg	93		71-129		
Isopropanol	100	U	100.	500	ug/kg	95		75-125		
Methanol	100	U	100.	500	ug/kg	100		68-129		
Batch number: 112980042A	Sample number(s): 6445463-6445466									
Diethylene glycol	5.0	U	5.0	10	mg/kg	100		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	106		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	99		67-131		
Batch number: 112990013A	Sample number(s): 6445463-6445466									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	102		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	104		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	104		69-109		
Batch number: 113000011A	Sample number(s): 6445463-6445466									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	96		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	99		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	99		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	84		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	88		49-107		
Batch number: 112971026003A	Sample number(s): 6445463-6445471									
Antimony	0.0705	U	0.0705	0.190	mg/kg	79		40-227		
Arsenic	0.0762	U	0.0762	0.381	mg/kg	105		83-111		
Beryllium	0.0152	U	0.0152	0.0952	mg/kg	104		84-112		
Cadmium	0.0419	U	0.0419	0.0952	mg/kg	102		83-111		
Chromium	0.114	U	0.114	0.381	mg/kg	112		77-123		
Cobalt	0.0190	U	0.0190	0.0952	mg/kg	107		85-114		
Copper	0.0762	U	0.0762	0.381	mg/kg	107		81-110		
Lead	0.0121	J	0.0097	0.190	mg/kg	101		84-112		
Nickel	0.0952	U	0.0952	0.381	mg/kg	101		81-110		
Silver	0.0135	U	0.0135	0.0952	mg/kg	103		83-112		
Thallium	0.0286	U	0.0286	0.0952	mg/kg	100		82-112		
Vanadium	0.0210	U	0.0210	0.0952	mg/kg	102		76-110		
Zinc	0.533	U	0.533	2.86	mg/kg	99		82-110		
Batch number: 112971026003B	Sample number(s): 6445463-6445471									
Selenium	0.0552	U	0.0552	0.381	mg/kg	101		79-110		
Batch number: 112971026003C	Sample number(s): 6445463-6445471									
Molybdenum	0.0476	U	0.0476	0.0952	mg/kg	101		80-110		
Batch number: 112971026003D	Sample number(s): 6445463-6445471									
Barium	0.101	U	0.101	0.381	mg/kg	102		83-110		
Batch number: 112975708006	Sample number(s): 6445463-6445471									
Aluminum	6.05	U	6.05	20.0	mg/kg	88		40-127		

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272534
Reported: 11/18/11 at 12:00 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Boron	0.447	J	0.360	5.00	mg/kg	102		83-110		
Calcium	17.2	J	2.50	20.0	mg/kg	95		81-110		
Iron	2.61	U	2.61	20.0	mg/kg	88		47-129		
Lithium	0.62	U	0.62	2.0	mg/kg	101		80-120		
Magnesium	2.05	J	0.440	10.0	mg/kg	91		63-116		
Manganese	0.0480	J	0.0360	0.500	mg/kg	101		85-116		
Phosphorus	1.14	J	0.350	10.0	mg/kg	103		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	103		71-110		
Sodium	5.95	U	5.95	100	mg/kg	103		76-110		
Strontium	0.0770	J	0.0250	0.500	mg/kg	101		84-110		
Tin	1.18	J	0.320	10.0	mg/kg	94		86-120		
Titanium	0.0710	U	0.0710	1.00	mg/kg	91		80-120		
Zirconium	0.460	U	0.460	5.00	mg/kg	101		80-120		
Batch number: 112975711003	Sample number(s): 6445463-6445471									
Mercury	0.0070	U	0.0070	0.0989	mg/kg	111		83-119		
Batch number: 11298621201B	Sample number(s): 6445463-6445471									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	99		85-115		
Batch number: 11300102201A	Sample number(s): 6445463-6445466									
16a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	96		80-120		
Batch number: 11305243201A	Sample number(s): 6445463-6445471									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	95		80-120		
Batch number: 11306621203A	Sample number(s): 6445463-6445471									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	101		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	102		90-110		
Batch number: 11300039403A	Sample number(s): 6445463-6445471									
17a pH by 9045C						100		95-105		
Batch number: 11301162401B	Sample number(s): 6445463-6445471									
Moisture Content by 160.3						99		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11295SLA026	Sample number(s): 6445463-6445471 UNSPK: P443490								
Aniline	65	74	18-116	13	30				
Benzidine	0*	0*	35-141	0	30				
Benzoic acid	74	58	10-173	25	30				
Benzyl alcohol	90	94	67-115	5	30				
4-Bromophenyl-phenylether	92	96	67-129	4	30				
Carbazole	92	98	64-120	6	30				
4-Chloro-3-methylphenol	94	99	62-122	6	30				
4-Chloroaniline	55	70	13-107	24	30				
bis(2-Chloroethoxy)methane	93	98	75-104	6	30				
bis(2-Chloroethyl)ether	88	90	60-116	2	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272534
Reported: 11/18/11 at 12:00 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
bis(2-Chloroisopropyl)ether	84	86	55-142	2	30				
2-Chloronaphthalene	71	74	50-141	4	30				
2-Chlorophenol	94	97	73-121	3	30				
4-Chlorophenyl-phenylether	94	97	80-109	3	30				
Dibenzofuran	91	96	71-112	5	30				
1,2-Dichlorobenzene	85	87	66-108	2	30				
1,3-Dichlorobenzene	85	86	63-109	1	30				
1,4-Dichlorobenzene	85	86	58-108	2	30				
3,3'-Dichlorobenzidine	39	55	28-109	33*	30				
2,4-Dichlorophenol	97	100	66-123	3	30				
2,4-Dimethylphenol	93	98	68-118	5	30				
3,5-Dimethylphenol	98	104	71-127	5	30				
4,6-Dinitro-2-methylphenol	80	46	11-126	53*	30				
2,4-Dinitrophenol	65	20	20-143	104*	30				
2,4-Dinitrotoluene	98	100	56-129	2	30				
2,6-Dinitrotoluene	97	101	69-123	4	30				
1,2-Diphenylhydrazine	94	97	71-129	3	30				
Hexachlorobenzene	91	96	77-114	5	30				
Hexachlorobutadiene	86	91	62-120	6	30				
Hexachlorocyclopentadiene	87	86	10-153	1	30				
Hexachloroethane	84	84	57-109	0	30				
Isophorone	89	94	73-102	5	30				
2-Methylphenol	95	97	75-111	2	30				
4-Methylphenol	93	95	59-123	1	30				
2-Nitroaniline	98	101	67-125	3	30				
3-Nitroaniline	93	100	59-122	7	30				
4-Nitroaniline	81	89	41-109	10	30				
Nitrobenzene	89	95	57-125	7	30				
2-Nitrophenol	90	91	56-127	2	30				
4-Nitrophenol	86	90	37-129	5	30				
N-Nitroso-di-n-propylamine	84	87	60-116	3	30				
N-Nitrosodiphenylamine	95	98	71-122	4	30				
Pentachlorophenol	96	87	28-127	9	30				
Phenol	96	100	58-126	4	30				
1,2,4-Trichlorobenzene	88	93	72-115	5	30				
2,4,5-Trichlorophenol	94	98	58-129	4	30				
2,4,6-Trichlorophenol	94	96	56-134	2	30				
Batch number: 11295SLC026	Sample number(s): 6445463-6445471 UNSPK: P443491								
Acenaphthene	92	89	63-105	3	30				
Acenaphthylene	88	85	67-114	3	30				
Anthracene	95	92	73-115	3	30				
Benzo(a)anthracene	99	97	59-128	2	30				
Benzo(a)pyrene	92	90	58-142	2	30				
Benzo(b)fluoranthene	91	88	54-163	3	30				
Benzo(g,h,i)perylene	102	98	33-141	4	30				
Benzo(k)fluoranthene	93	92	57-153	1	30				
Butylbenzylphthalate	100	96	57-173	5	30				
Di-n-butylphthalate	94	94	65-148	0	30				
Chrysene	98	97	67-123	1	30				
Dibenz(a,h)anthracene	104	101	22-133	2	30				
Diethylphthalate	91	88	70-136	4	30				
Dimethylphthalate	94	91	74-118	3	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272534
Reported: 11/18/11 at 12:00 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Bis(2-Ethylhexyl)phthalate	124	119	39-167	4	30				
Fluoranthene	95	94	51-149	1	30				
Fluorene	91	88	66-122	3	30				
Indeno(1,2,3-cd)pyrene	104	100	21-143	3	30				
1-Methylnaphthalene	86	82	72-123	5	30				
2-Methylnaphthalene	85	82	64-103	4	30				
Naphthalene	87	83	61-102	5	30				
N-Nitrosodimethylamine	96	89	48-113	8	30				
Di-n-octylphthalate	89	89	40-192	0	30				
Phenanthrene	91	88	62-122	3	30				
Pyrene	95	88	51-131	7	30				
Batch number: 112980018A	Sample number(s): 6445467 UNSPK: P439929								
6a Perchlorate EPA 6850	100	104	80-120	4	20				
Batch number: 112990025A	Sample number(s): 6445463-6445471 UNSPK: P446810								
PCB-1016	109	123	29-146	12	50				
PCB-1260	110	118	39-149	7	50				
Batch number: 112970037A	Sample number(s): 6445463-6445466 UNSPK: 6445463								
Ethanol	84	91	48-130	8	20				
Isopropanol	90	94	12-149	5	20				
Methanol	89	100	43-138	11	20				
Batch number: 112980042A	Sample number(s): 6445463-6445466 UNSPK: P437195								
Diethylene glycol	47*	48*	59-109	3	20				
Ethylene glycol	75	75	63-107	1	20				
Propylene glycol	77	78	63-107	0	20				
Batch number: 112990013A	Sample number(s): 6445463-6445466 UNSPK: 6445463								
m-Terphenyl	107	105	75-125	2	20				
o-Terphenyl	106	105	75-125	2	20				
p-Terphenyl	106	104	75-125	2	20				
Batch number: 113000011A	Sample number(s): 6445463-6445466 UNSPK: 6445463								
EFH (C12-C14)	119	283*	49-123	59*	20				
EFH (C15-C20)	494*	190*	49-123	55*	20				
EFH (C21-C30)	1022 (2)	728 (2)	49-123	20	20				
EFH (C30 - C40)	292 (2)	353 (2)	49-123	5	20				
EFH (C8-C11)	90	90	49-123	0	20				
Batch number: 112971026003A	Sample number(s): 6445463-6445471 UNSPK: P446810 BKG: P446810								
Antimony	28*	28*	75-125	1	20	0.103 J	0.0806 J	25* (1)	20
Arsenic	82	57*	75-125	6	20	6.62	6.98	5	20
Beryllium	90	72*	75-125	10	20	0.824	0.814	1	20
Cadmium	105	96	75-125	9	20	0.0882 J	0.0745 J	17 (1)	20
Chromium	88	60*	75-125	9	20	25.6	25.3	1	20
Cobalt	101	97	75-125	4	20	7.66	7.86	3	20
Copper	95	89	75-125	3	20	11.4	11.8	4	20
Lead	101	50*	75-125	15	20	7.46	7.35	1	20
Nickel	92	85	75-125	3	20	15.3	15.6	2	20
Silver	104	102	75-125	2	20	0.0299 J	0.0293 J	2 (1)	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272534
Reported: 11/18/11 at 12:00 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Thallium	92	79	75-125	8	20	0.319	0.280	13 (1)	20
Vanadium	80 (2)	51 (2)	75-125	5	20	49.7	50.1	1	20
Zinc	67 (2)	45 (2)	75-125	4	20	53.4	53.2	0	20
Batch number: 112971026003B	Sample number(s): 6445463-6445471 UNSPK: P446810 BKG: P446810								
Selenium	91	97	75-125	5	20	0.0790 J	0.0998 J	23* (1)	20
Batch number: 112971026003C	Sample number(s): 6445463-6445471 UNSPK: P446810 BKG: P446810								
Molybdenum	94	92	75-125	3	20	0.533	0.502	6	20
Batch number: 112971026003D	Sample number(s): 6445463-6445471 UNSPK: P446810 BKG: P446810								
Barium	43 (2)	-80 (2)	75-125	11	20	109	113	3	20
Batch number: 112975708006	Sample number(s): 6445463-6445471 UNSPK: P446810 BKG: P446810								
Aluminum	1918 (2)	-1788 (2)	75-125	27*	20	27,400	28,100	2	20
Boron	96	92	84-115	2	20	9.74	9.76	0 (1)	20
Calcium	-52 (2)	77 (2)	75-125	4	20	12,800	11,100	14	20
Iron	2334 (2)	-2778 (2)	75-125	20	20	25,600	27,400	7	20
Lithium	103	91	82-114	8	20	26.0	27.0	4	20
Magnesium	254 (2)	-105 (2)	75-125	14	20	5,070	5,250	4	20
Manganese	42 (2)	52 (2)	75-125	2	20	282	320	13	20
Phosphorus	87	98	75-125	5	20	168	165	2	20
Potassium	151*	80	75-125	18	20	2,640	2,740	3	20
Sodium	100	93	75-125	6	20	75.4 J	75.9 J	1 (1)	20
Strontium	99	96	75-115	1	20	19.6	19.5	0	20
Tin	81	80	80-110	1	20	2.73 J	2.88 J	5 (1)	20
Titanium	218 (2)	155 (2)	75-125	5	20	1,070	1,110	4	20
Zirconium	96	88	81-110	6	20	5.00	6.41	25* (1)	20
Batch number: 112975711003	Sample number(s): 6445463-6445471 UNSPK: P446810 BKG: P446810								
Mercury	95	102	65-135	9	20	0.0150 J	0.0204 J	30* (1)	20
Batch number: 11298621201B	Sample number(s): 6445463-6445471 UNSPK: 6445463 BKG: 6445463								
7a Perchlorate EPA 314.0	108		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11300102201A	Sample number(s): 6445463-6445466 UNSPK: P443491 BKG: P443491								
16a Cyanide by 9012B	102		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11305243201A	Sample number(s): 6445463-6445471 UNSPK: P446810 BKG: P446810								
3a Cr VI by EPA 7199	94		75-125			0.21 J	0.56 J	90* (1)	20
Batch number: 11306621203A	Sample number(s): 6445463-6445471 UNSPK: 6445463 BKG: 6445463								
11a Anions by 300.0 - Fluoride	73*		80-120			1.1	0.80 U	200* (1)	20
11a Anions by 300.0 - Nitrate	104		80-120			2.3	2.1	9 (1)	20
Batch number: 11300039403A	Sample number(s): 6445463-6445471 BKG: 6445463								
17a pH by 9045C						6.58	6.60	0	3
Batch number: 11301162401B	Sample number(s): 6445463-6445471 BKG: 6445471								
Moisture Content by 160.3						8.8	8.8	0	20

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272534
Reported: 11/18/11 at 12:00 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11295SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6445463	96	97	84	89	92	102
6445464	88	91	81	82	85	93
6445465	95	97	82	84	86	96
6445466	88	90	81	83	86	96
6445467	88	91	75	85	86	96
6445468	91	93	70	83	83	98
6445469	89	92	69	84	86	95
6445470	87	89	71	79	82	96
6445471	91	94	70	83	84	99
Blank	86	90	84	86	88	99
LCS	89	90	91	85	88	101
MS	92	94	86	86	87	96
MSD	95	98	89	91	92	101
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11295SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6445463	90	55	69
6445464	96	79	68
6445465	92	78	72
6445466	86	77	71
6445467	88	79	88
6445468	82	72	82
6445469	85	77	86
6445470	79	72	82
6445471	87	60	85
Blank	93	82	81
LCS	98	81	86
MS	100	83	84
MSD	97	80	80
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11299A16A

	Trifluorotoluene-F

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272534
Reported: 11/18/11 at 12:00 PM

Surrogate Quality Control

6445463	119
6445464	90
6445465	91
Blank	96
LCS	89
LCSD	93
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11300A20A

	Trifluorotoluene-F
6445473	86
Blank	88
LCS	117
LCSD	115
Limits:	63-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112990025A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6445463	110	121*
6445464	115	129*
6445465	117	131*
6445466	97	109
6445467	101	106
6445468	104	96
6445469	101	113
6445470	107	113
6445471	95	100
Blank	103	124*
LCS	136	163*
LCSD	101	113
MS	108	109
MSD	104	118
Limits:	53-139	45-120

Analysis Name: 18a Alcohols by 8015B
Batch number: 112970037A

	Acetone
6445463	89
6445464	92
6445465	94
6445466	89
Blank	97
LCS	103
MS	94
MSD	95
Limits:	42-138

Analysis Name: 19a Glycols by 8015B

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272534
Reported: 11/18/11 at 12:00 PM

Surrogate Quality Control

Batch number: 112980042A

	Tetramethylene glycol
6445463	88
6445464	88
6445465	86
6445466	87
Blank	100
LCS	99
MS	88
MSD	87
Limits:	29-137

Analysis Name: 22a Terphenyls by 8015B
Batch number: 112990013A

	n-Triacontane-d62
6445463	86
6445464	78
6445465	75
6445466	93
Blank	76
LCS	76
MS	95
MSD	85
Limits:	19-152

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 113000011A

	Chlorobenzene	Orthoterphenyl
6445463	84	87
6445464	89	91
6445465	85	89
6445466	90	92
Blank	83	87
LCS	80	90
MS	85	75
MSD	88	81
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

13013 1272534 6445463-73

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-023-SA7-SB-2.5	10.20.11	0915	SOIL	NONE	2-Encores										X											
SL-023-SA7-SB-2.0-3.0	10.20.11	0918	SOIL	NONE	1-SS Sleeve			X	X																	
SL-023-SA7-SB-2.0-3.0	10.20.11	0918	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X				X	X	X	X		
SL-060-SA7-SB-3.0	10.20.11	1100	SOIL	NONE	2-Encores										X											
SL-060-SA7-SB-2.5-3.5	10.20.11	1105	SOIL	NONE	1-SS Sleeve			X	X																	
SL-060-SA7-SB-2.5-3.5	10.20.11	1105	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X				X	X	X	X		
SL-069-SA7-SB-3.0	10.20.11	1520	SOIL	NONE	2-Encores										X											
SL-069-SA7-SB-2.5-3.5	10.20.11	1523	SOIL	NONE	1-SS Sleeve			X	X																	
SL-069-SA7-SB-2.5-3.5	10.20.11	1523	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X				X	X	X	X		
SL-148-SA7-SB-0.0-1.0	10.20.11	1423	SOIL	NONE	1-SS Sleeve			X	X																	
SL-148-SA7-SB-0.0-1.0	10.20.11	1423	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X				X	X	X	X		
SL-026-SA5DS-SB-4.0-5.0	10.20.11	1237	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X	X												
SL-026-SA5DS-SB-9.0-10.0	10.20.11	1155	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-040-SA5DS-SB-4.0-5.0	10.20.11	1001	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-040-SA5DS-SB-9.0-10.0	10.20.11	0920	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-016-SA8S-SB-4.0-5.0	10.20.11	1508	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
EB-SA5DS-SB-102011	10.20.11	1400	WATER	NONE	1-1 L Amber														X							HGL ASTM II WATER-DTP crew
TB ~~4012011~~ 102011 NLA 10/21/11	10.20.11	0800	WATER	NONE	2-40 mL Vials										X											

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	10/20/2011 / 1630	10/21/11 0915	Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No(s)**	
		8767 9858 7618,7629	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 01, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/21/2011
Group Number: 1272535
SDG: DX150
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-023-SA7-SB-2.0-3.0 Soil	6445474
SL-060-SA7-SB-2.5-3.5 Soil	6445475
SL-069-SA7-SB-2.5-3.5 Soil	6445476
SL-148-SA7-SB-0.0-1.0 Soil	6445477
SL-026-SA5DS-SB-4.0-5.0 Soil	6445478
SL-026-SA5DS-SB-9.0-10.0 Soil	6445479
SL-040-SA5DS-SB-4.0-5.0 Soil	6445480
SL-040-SA5DS-SB-9.0-10.0 Soil	6445481
SL-016-SA5DS-SB-4.0-5.0 Soil	6445482

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-023-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA7-SB-2.0-3.0

LLI Sample # SW 6445474
LLI Group # 1272535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:18

Submitted: 10/21/2011 09:15
Reported: 11/01/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD023 SDG#: DX150-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-023-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA7-SB-2.0-3.0

LLI Sample # SW 6445474
LLI Group # 1272535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:18

Submitted: 10/21/2011 09:15
Reported: 11/01/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD023 SDG#: DX150-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0332 U	0.0332	1.03	1
11031	12378-PeCDD	40321-76-4	0.0570 JBQ	0.0274	5.15	1
11031	123478-HxCDD	39227-28-6	0.0513 JBQ	0.0261	5.15	1
11031	123678-HxCDD	57653-85-7	0.199 JB	0.0265	5.15	1
11031	123789-HxCDD	19408-74-3	0.310 JBQ	0.0252	5.15	1
11031	1234678-HpCDD	35822-46-9	2.55 JB	0.0314	5.15	1
11031	OCDD	3268-87-9	22.0 B	0.0411	10.3	1
11031	2378-TCDF	51207-31-9	0.0490 JQ	0.0359	1.03	1
11031	12378-PeCDF	57117-41-6	0.0624 JBQ	0.0233	5.15	1
11031	23478-PeCDF	57117-31-4	0.176 JB	0.0237	5.15	1
11031	123478-HxCDF	70648-26-9	0.462 J	0.0289	5.15	1
11031	123678-HxCDF	57117-44-9	0.0703 JB	0.0245	5.15	1
11031	123789-HxCDF	72918-21-9	0.137 JB	0.0298	5.15	1
11031	234678-HxCDF	60851-34-5	0.0988 JB	0.0218	5.15	1
11031	1234678-HpCDF	67562-39-4	0.653 JB	0.0166	5.15	1
11031	1234789-HpCDF	55673-89-7	0.0434 JB	0.0277	5.15	1
11031	OCDF	39001-02-0	1.53 JB	0.0413	10.3	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	55	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-023-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA7-SB-2.0-3.0

LLI Sample # SW 6445474
LLI Group # 1272535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:18

Submitted: 10/21/2011 09:15
Reported: 11/01/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD023 SDG#: DX150-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-023-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-023-SA7-SB-2.0-3.0

LLI Sample # SW 6445474
LLI Group # 1272535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:18

Submitted: 10/21/2011 09:15
Reported: 11/01/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD023 SDG#: DX150-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11300001	10/30/2011 02:51	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11300001	10/27/2011 09:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401B	10/28/2011 22:37	Lisa J Cooke	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-060-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA7-SB-2.5-3.5

LLI Sample # SW 6445475
LLI Group # 1272535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:05

Submitted: 10/21/2011 09:15
Reported: 11/01/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD060 SDG#: DX150-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-060-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA7-SB-2.5-3.5

LLI Sample # SW 6445475
LLI Group # 1272535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:05

Submitted: 10/21/2011 09:15
Reported: 11/01/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD060 SDG#: DX150-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0242 U	0.0242	1.04	1
11031	12378-PeCDD	40321-76-4	0.0208 U	0.0208	5.21	1
11031	123478-HxCDD	39227-28-6	0.0162 U	0.0162	5.21	1
11031	123678-HxCDD	57653-85-7	0.0201 JBQ	0.0165	5.21	1
11031	123789-HxCDD	19408-74-3	0.0198 JB	0.0169	5.21	1
11031	1234678-HpCDD	35822-46-9	0.283 JB	0.0176	5.21	1
11031	OCDD	3268-87-9	1.58 JB	0.0248	10.4	1
11031	2378-TCDF	51207-31-9	0.0164 U	0.0164	1.04	1
11031	12378-PeCDF	57117-41-6	0.00932 U	0.00932	5.21	1
11031	23478-PeCDF	57117-31-4	0.0512 JBQ	0.00942	5.21	1
11031	123478-HxCDF	70648-26-9	0.0458 J	0.0119	5.21	1
11031	123678-HxCDF	57117-44-9	0.00901 U	0.00901	5.21	1
11031	123789-HxCDF	72918-21-9	0.0231 JBQ	0.0114	5.21	1
11031	234678-HxCDF	60851-34-5	0.0300 JBQ	0.00848	5.21	1
11031	1234678-HpCDF	67562-39-4	0.138 JB	0.00942	5.21	1
11031	1234789-HpCDF	55673-89-7	0.0237 JBQ	0.0171	5.21	1
11031	OCDF	39001-02-0	0.200 JBQ	0.0326	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	92	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	60	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-060-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA7-SB-2.5-3.5

LLI Sample # SW 6445475
LLI Group # 1272535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:05

Submitted: 10/21/2011 09:15
Reported: 11/01/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD060 SDG#: DX150-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-060-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-060-SA7-SB-2.5-3.5

LLI Sample # SW 6445475
LLI Group # 1272535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:05

Submitted: 10/21/2011 09:15
Reported: 11/01/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD060 SDG#: DX150-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11300001	10/30/2011 03:48	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11300001	10/27/2011 09:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401B	10/28/2011 22:37	Lisa J Cooke	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-069-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-069-SA7-SB-2.5-3.5

LLI Sample # SW 6445476
LLI Group # 1272535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:23

Submitted: 10/21/2011 09:15
Reported: 11/01/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD069 SDG#: DX150-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-069-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-069-SA7-SB-2.5-3.5

LLI Sample # SW 6445476
LLI Group # 1272535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:23

Submitted: 10/21/2011 09:15
Reported: 11/01/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD069 SDG#: DX150-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0271 JQ	0.0243	1.01	1
11031	12378-PeCDD	40321-76-4	0.0228 U	0.0228	5.04	1
11031	123478-HxCDD	39227-28-6	0.0170 U	0.0170	5.04	1
11031	123678-HxCDD	57653-85-7	0.0460 JBQ	0.0179	5.04	1
11031	123789-HxCDD	19408-74-3	0.0442 JBQ	0.0174	5.04	1
11031	1234678-HpCDD	35822-46-9	0.429 JB	0.0198	5.04	1
11031	OCDD	3268-87-9	2.28 JB	0.0297	10.1	1
11031	2378-TCDF	51207-31-9	0.0260 JQ	0.0204	1.01	1
11031	12378-PeCDF	57117-41-6	0.0351 JB	0.0121	5.04	1
11031	23478-PeCDF	57117-31-4	0.0799 JBQ	0.0125	5.04	1
11031	123478-HxCDF	70648-26-9	0.0475 J	0.0145	5.04	1
11031	123678-HxCDF	57117-44-9	0.0469 JBQ	0.0122	5.04	1
11031	123789-HxCDF	72918-21-9	0.0420 JBQ	0.0166	5.04	1
11031	234678-HxCDF	60851-34-5	0.0564 JBQ	0.0123	5.04	1
11031	1234678-HpCDF	67562-39-4	0.157 JB	0.0118	5.04	1
11031	1234789-HpCDF	55673-89-7	0.0242 JB	0.0228	5.04	1
11031	OCDF	39001-02-0	0.210 JBQ	0.0347	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	52	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-069-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-069-SA7-SB-2.5-3.5

LLI Sample # SW 6445476
LLI Group # 1272535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:23

Submitted: 10/21/2011 09:15
Reported: 11/01/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD069 SDG#: DX150-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-069-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-069-SA7-SB-2.5-3.5

LLI Sample # SW 6445476
LLI Group # 1272535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:23

Submitted: 10/21/2011 09:15
Reported: 11/01/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD069 SDG#: DX150-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11300001	10/30/2011 04:45	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11300001	10/27/2011 09:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401B	10/28/2011 22:37	Lisa J Cooke	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-148-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA7-SB-0.0-1.0

LLI Sample # SW 6445477
LLI Group # 1272535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 14:23

Submitted: 10/21/2011 09:15
Reported: 11/01/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD148 SDG#: DX150-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-148-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA7-SB-0.0-1.0

LLI Sample # SW 6445477
LLI Group # 1272535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 14:23

Submitted: 10/21/2011 09:15
Reported: 11/01/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD148 SDG#: DX150-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0293 U	0.0293	1.04	1
11031	12378-PeCDD	40321-76-4	0.0351 JBQ	0.0268	5.22	1
11031	123478-HxCDD	39227-28-6	0.0500 JBQ	0.0238	5.22	1
11031	123678-HxCDD	57653-85-7	0.111 JB	0.0242	5.22	1
11031	123789-HxCDD	19408-74-3	0.128 JB	0.0244	5.22	1
11031	1234678-HpCDD	35822-46-9	1.84 JB	0.0293	5.22	1
11031	OCDD	3268-87-9	16.8 B	0.0396	10.4	1
11031	2378-TCDF	51207-31-9	0.0365 JQ	0.0286	1.04	1
11031	12378-PeCDF	57117-41-6	0.0730 JB	0.0154	5.22	1
11031	23478-PeCDF	57117-31-4	0.108 JB	0.0167	5.22	1
11031	123478-HxCDF	70648-26-9	0.110 J	0.0229	5.22	1
11031	123678-HxCDF	57117-44-9	0.0770 JBQ	0.0180	5.22	1
11031	123789-HxCDF	72918-21-9	0.0441 JB	0.0209	5.22	1
11031	234678-HxCDF	60851-34-5	0.0610 JB	0.0152	5.22	1
11031	1234678-HpCDF	67562-39-4	0.437 JB	0.0158	5.22	1
11031	1234789-HpCDF	55673-89-7	0.0671 JB	0.0253	5.22	1
11031	OCDF	39001-02-0	0.833 JB	0.0442	10.4	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	46	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	56	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-148-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA7-SB-0.0-1.0

LLI Sample # SW 6445477
LLI Group # 1272535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 14:23

Submitted: 10/21/2011 09:15
Reported: 11/01/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD148 SDG#: DX150-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-148-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-148-SA7-SB-0.0-1.0

LLI Sample # SW 6445477
LLI Group # 1272535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 14:23

Submitted: 10/21/2011 09:15
Reported: 11/01/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD148 SDG#: DX150-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11300001	10/30/2011 05:41	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11300001	10/27/2011 09:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401B	10/28/2011 22:37	Lisa J Cooke	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-026-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445478
LLI Group # 1272535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 12:37

Submitted: 10/21/2011 09:15
Reported: 11/01/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD264 SDG#: DX150-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-026-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445478
LLI Group # 1272535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 12:37

Submitted: 10/21/2011 09:15
Reported: 11/01/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD264 SDG#: DX150-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0276 U	0.0276	1.05	1
11031	12378-PeCDD	40321-76-4	0.0233 U	0.0233	5.27	1
11031	123478-HxCDD	39227-28-6	0.0419 JBQ	0.0190	5.27	1
11031	123678-HxCDD	57653-85-7	0.0749 JBQ	0.0193	5.27	1
11031	123789-HxCDD	19408-74-3	0.0559 JBQ	0.0188	5.27	1
11031	1234678-HpCDD	35822-46-9	0.555 JBQ	0.0239	5.27	1
11031	OCDD	3268-87-9	3.60 JB	0.0293	10.5	1
11031	2378-TCDF	51207-31-9	0.0251 JQ	0.0202	1.05	1
11031	12378-PeCDF	57117-41-6	0.0656 JB	0.0118	5.27	1
11031	23478-PeCDF	57117-31-4	0.123 JB	0.0132	5.27	1
11031	123478-HxCDF	70648-26-9	0.0647 JQ	0.0172	5.27	1
11031	123678-HxCDF	57117-44-9	0.0349 JBQ	0.0127	5.27	1
11031	123789-HxCDF	72918-21-9	0.0230 JB	0.0161	5.27	1
11031	234678-HxCDF	60851-34-5	0.0370 JBQ	0.0116	5.27	1
11031	1234678-HpCDF	67562-39-4	0.191 JB	0.0104	5.27	1
11031	1234789-HpCDF	55673-89-7	0.0221 JBQ	0.0203	5.27	1
11031	OCDF	39001-02-0	0.395 JB	0.0424	10.5	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	45	26 - 152
13C12-123678-HxCDF	61	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	48	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-026-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445478
LLI Group # 1272535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 12:37

Submitted: 10/21/2011 09:15
Reported: 11/01/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD264 SDG#: DX150-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-026-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445478
LLI Group # 1272535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 12:37

Submitted: 10/21/2011 09:15
Reported: 11/01/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD264 SDG#: DX150-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11300001	10/30/2011 06:38	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11300001	10/27/2011 09:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401B	10/28/2011 22:37	Lisa J Cooke	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-026-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445479
LLI Group # 1272535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:55

Submitted: 10/21/2011 09:15
Reported: 11/01/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD269 SDG#: DX150-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-026-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445479
LLI Group # 1272535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:55

Submitted: 10/21/2011 09:15
Reported: 11/01/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD269 SDG#: DX150-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0537	JQ	0.0319	1.08	1
11031	12378-PeCDD	40321-76-4	0.110	JB	0.0273	5.40	1
11031	123478-HxCDD	39227-28-6	0.0210	U	0.0210	5.40	1
11031	123678-HxCDD	57653-85-7	0.0734	JB	0.0199	5.40	1
11031	123789-HxCDD	19408-74-3	0.0487	JBQ	0.0199	5.40	1
11031	1234678-HpCDD	35822-46-9	0.263	JB	0.0257	5.40	1
11031	OCDD	3268-87-9	0.667	JB	0.0381	10.8	1
11031	2378-TCDF	51207-31-9	0.0563	J	0.0241	1.08	1
11031	12378-PeCDF	57117-41-6	0.159	JB	0.0144	5.40	1
11031	23478-PeCDF	57117-31-4	0.0157	U	0.0157	5.40	1
11031	123478-HxCDF	70648-26-9	0.0689	JQ	0.0193	5.40	1
11031	123678-HxCDF	57117-44-9	0.0426	JBQ	0.0150	5.40	1
11031	123789-HxCDF	72918-21-9	0.0855	JB	0.0201	5.40	1
11031	234678-HxCDF	60851-34-5	0.0297	JBQ	0.0145	5.40	1
11031	1234678-HpCDF	67562-39-4	0.0992	JB	0.00999	5.40	1
11031	1234789-HpCDF	55673-89-7	0.0417	JBQ	0.0218	5.40	1
11031	OCDF	39001-02-0	0.210	JB	0.0469	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	58	21 - 178
13C12-123478-HxCDF	47	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	52	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	47	26 - 138
13C12-OCDF	45	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-026-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445479
LLI Group # 1272535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:55

Submitted: 10/21/2011 09:15
Reported: 11/01/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD269 SDG#: DX150-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-026-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-026-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445479
LLI Group # 1272535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 11:55

Submitted: 10/21/2011 09:15
Reported: 11/01/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD269 SDG#: DX150-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11300001	10/30/2011 07:35	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11300001	10/27/2011 09:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401B	10/28/2011 22:37	Lisa J Cooke	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-040-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445480
LLI Group # 1272535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 10:01

Submitted: 10/21/2011 09:15
Reported: 11/01/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD404 SDG#: DX150-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-040-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445480
LLI Group # 1272535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 10:01

Submitted: 10/21/2011 09:15
Reported: 11/01/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD404 SDG#: DX150-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0378 U	0.0378	1.08	1
11031	12378-PeCDD	40321-76-4	0.0860 JBQ	0.0312	5.40	1
11031	123478-HxCDD	39227-28-6	0.0279 JB	0.0184	5.40	1
11031	123678-HxCDD	57653-85-7	0.0420 JB	0.0181	5.40	1
11031	123789-HxCDD	19408-74-3	0.0702 JBQ	0.0179	5.40	1
11031	1234678-HpCDD	35822-46-9	0.186 JB	0.0256	5.40	1
11031	OCDD	3268-87-9	0.582 JB	0.0418	10.8	1
11031	2378-TCDF	51207-31-9	0.0275 U	0.0275	1.08	1
11031	12378-PeCDF	57117-41-6	0.0733 JB	0.0158	5.40	1
11031	23478-PeCDF	57117-31-4	0.0902 JBQ	0.0173	5.40	1
11031	123478-HxCDF	70648-26-9	0.0409 JQ	0.0217	5.40	1
11031	123678-HxCDF	57117-44-9	0.0414 JBQ	0.0162	5.40	1
11031	123789-HxCDF	72918-21-9	0.0552 JB	0.0185	5.40	1
11031	234678-HxCDF	60851-34-5	0.0383 JB	0.0138	5.40	1
11031	1234678-HpCDF	67562-39-4	0.135 JBQ	0.0122	5.40	1
11031	1234789-HpCDF	55673-89-7	0.0399 JB	0.0205	5.40	1
11031	OCDF	39001-02-0	0.171 JB	0.0579	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	52	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	54	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	48	26 - 138
13C12-OCDF	45	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-040-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445480
LLI Group # 1272535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 10:01

Submitted: 10/21/2011 09:15
Reported: 11/01/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD404 SDG#: DX150-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-040-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445480
LLI Group # 1272535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 10:01

Submitted: 10/21/2011 09:15
Reported: 11/01/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD404 SDG#: DX150-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11300001	10/30/2011 08:31	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11300001	10/27/2011 09:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401B	10/28/2011 22:37	Lisa J Cooke	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-040-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445481
LLI Group # 1272535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:20

Submitted: 10/21/2011 09:15
Reported: 11/01/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD409 SDG#: DX150-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-040-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445481
LLI Group # 1272535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:20

Submitted: 10/21/2011 09:15
Reported: 11/01/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD409 SDG#: DX150-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0311 U	0.0311	1.07	1
11031	12378-PeCDD	40321-76-4	0.0347 JBQ	0.0261	5.34	1
11031	123478-HxCDD	39227-28-6	0.0171 U	0.0171	5.34	1
11031	123678-HxCDD	57653-85-7	0.0363 JB	0.0176	5.34	1
11031	123789-HxCDD	19408-74-3	0.0672 JB	0.0171	5.34	1
11031	1234678-HpCDD	35822-46-9	0.245 JB	0.0226	5.34	1
11031	OCDD	3268-87-9	0.613 JB	0.0396	10.7	1
11031	2378-TCDF	51207-31-9	0.0230 U	0.0230	1.07	1
11031	12378-PeCDF	57117-41-6	0.0126 U	0.0126	5.34	1
11031	23478-PeCDF	57117-31-4	0.0293 JB	0.0138	5.34	1
11031	123478-HxCDF	70648-26-9	0.0471 JQ	0.0153	5.34	1
11031	123678-HxCDF	57117-44-9	0.0142 JBQ	0.0123	5.34	1
11031	123789-HxCDF	72918-21-9	0.118 JBQ	0.0147	5.34	1
11031	234678-HxCDF	60851-34-5	0.0345 JBQ	0.0108	5.34	1
11031	1234678-HpCDF	67562-39-4	0.0813 JB	0.0102	5.34	1
11031	1234789-HpCDF	55673-89-7	0.0318 JBQ	0.0194	5.34	1
11031	OCDF	39001-02-0	0.190 JB	0.0460	10.7	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	94	32 - 141
13C12-123678-HxCDD	94	28 - 130
13C12-123789-HxCDD	92	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	54	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-040-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445481
LLI Group # 1272535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:20

Submitted: 10/21/2011 09:15
Reported: 11/01/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD409 SDG#: DX150-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-040-SA5DS-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-040-SA5DS-SB-9.0-10.0

LLI Sample # SW 6445481
LLI Group # 1272535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 09:20

Submitted: 10/21/2011 09:15
Reported: 11/01/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD409 SDG#: DX150-19

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11300001	10/30/2011 18:14	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11300001	10/27/2011 09:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401B	10/28/2011 22:37	Lisa J Cooke	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-016-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445482
LLI Group # 1272535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:08

Submitted: 10/21/2011 09:15
Reported: 11/01/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD016 SDG#: DX150-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-016-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445482
LLI Group # 1272535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:08

Submitted: 10/21/2011 09:15
Reported: 11/01/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD016 SDG#: DX150-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0435 U	0.0435	1.09	1
11031	12378-PeCDD	40321-76-4	0.0361 U	0.0361	5.44	1
11031	123478-HxCDD	39227-28-6	0.0230 JBQ	0.0221	5.44	1
11031	123678-HxCDD	57653-85-7	0.0219 U	0.0219	5.44	1
11031	123789-HxCDD	19408-74-3	0.0393 JBQ	0.0214	5.44	1
11031	1234678-HpCDD	35822-46-9	0.314 JBQ	0.0243	5.44	1
11031	OCDD	3268-87-9	0.618 JB	0.0498	10.9	1
11031	2378-TCDF	51207-31-9	0.0331 U	0.0331	1.09	1
11031	12378-PeCDF	57117-41-6	0.0529 JBQ	0.0164	5.44	1
11031	23478-PeCDF	57117-31-4	0.134 JBQ	0.0173	5.44	1
11031	123478-HxCDF	70648-26-9	0.0636 J	0.0231	5.44	1
11031	123678-HxCDF	57117-44-9	0.0383 JBQ	0.0184	5.44	1
11031	123789-HxCDF	72918-21-9	0.0410 JB	0.0195	5.44	1
11031	234678-HxCDF	60851-34-5	0.0377 JBQ	0.0146	5.44	1
11031	1234678-HpCDF	67562-39-4	0.0831 JB	0.0163	5.44	1
11031	1234789-HpCDF	55673-89-7	0.0335 JB	0.0266	5.44	1
11031	OCDF	39001-02-0	0.140 JB	0.0594	10.9	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	42	26 - 152
13C12-123678-HxCDF	53	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	58	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	47	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-016-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445482
LLI Group # 1272535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:08

Submitted: 10/21/2011 09:15
Reported: 11/01/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD016 SDG#: DX150-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-016-SA5DS-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-016-SA5DS-SB-4.0-5.0

LLI Sample # SW 6445482
LLI Group # 1272535
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/20/2011 15:08

Submitted: 10/21/2011 09:15
Reported: 11/01/2011 12:50

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

SD016 SDG#: DX150-20*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11300001	10/30/2011 19:10	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11300001	10/27/2011 09:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11301162401B	10/28/2011 22:37	Lisa J Cooke	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272535
Reported: 11/01/11 at 12:50 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11301162401B	Sample number(s): 6445474-6445482								
Moisture Content by 160.3					99		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11300001	Sample number(s): 6445474-6445482								
2378-TCDD	0.0422 U	0.0422	1.00	ng/kg	107		67-158		
12378-PeCDD	0.0804 J	0.0346	5.00	ng/kg	105		70-142		
123478-HxCDD	0.0345 J	0.0262	5.00	ng/kg	97		70-164		
123678-HxCDD	0.0438 J	0.0267	5.00	ng/kg	94		76-134		
123789-HxCDD	0.0427 J	0.0259	5.00	ng/kg	101		64-162		
1234678-HpCDD	0.295 J	0.0295	5.00	ng/kg	97		70-140		
OCDD	0.493 J	0.0380	10.0	ng/kg	96		78-144		
2378-TCDF	0.0353 U	0.0353	1.00	ng/kg	103		75-158		
12378-PeCDF	0.0458 J	0.0185	5.00	ng/kg	101		80-134		
23478-PeCDF	0.0744 J	0.0187	5.00	ng/kg	96		68-160		
123478-HxCDF	0.0234 U	0.0234	5.00	ng/kg	96		72-134		
123678-HxCDF	0.0512 J	0.0189	5.00	ng/kg	97		84-130		
123789-HxCDF	0.0857 J	0.0250	5.00	ng/kg	99		78-130		
234678-HxCDF	0.0555 J	0.0210	5.00	ng/kg	94		70-156		
1234678-HpCDF	0.128 J	0.0153	5.00	ng/kg	90		82-122		
1234789-HpCDF	0.0489 J	0.0291	5.00	ng/kg	96		78-138		
OCDF	0.188 J	0.0680	10.0	ng/kg	96		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11301162401B	Sample number(s): 6445474-6445482 BKG: P445471								
Moisture Content by 160.3						8.8	8.8	0	20
Batch number: 11300001	Sample number(s): 6445474-6445482 UNSPK: P437220								
2378-TCDD	103	109	67-158	2	25				
12378-PeCDD	101	102	70-142	3	25				
123478-HxCDD	99	96	70-164	6	25				
123678-HxCDD	92	93	76-134	3	25				
123789-HxCDD	101	101	64-162	3	25				
1234678-HpCDD	96	98	70-140	2	25				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272535
Reported: 11/01/11 at 12:50 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
OCDD	94	95	78-144	2	25				
2378-TCDF	98	94	75-158	8	25				
12378-PeCDF	99	100	80-134	2	25				
23478-PeCDF	95	94	68-160	5	25				
123478-HxCDF	97	96	72-134	4	25				
123678-HxCDF	96	97	84-130	3	25				
123789-HxCDF	99	99	78-130	4	25				
234678-HxCDF	95	96	70-156	3	25				
1234678-HpCDF	89	89	82-122	3	25				
1234789-HpCDF	95	94	78-138	5	25				
OCDF	96	95	63-170	5	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11300001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6445474	72	63	57	68	70	62
6445475	78	70	56	72	79	68
6445476	74	67	58	72	69	60
6445477	72	64	46	60	69	60
6445478	69	62	45	61	65	56
6445479	67	58	47	62	61	52
6445480	64	59	41	52	61	54
6445481	84	81	58	72	79	67
6445482	68	67	42	53	65	58
Blank	58	52	46	57	53	52
MS	78	72	72	81	81	73
MSD	71	67	64	72	72	67
OPR	63	57	56	65	59	59
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6445474	78	55	55	69	79	80
6445475	91	61	60	78	89	92
6445476	84	54	52	73	81	81
6445477	75	55	56	73	81	82
6445478	79	50	48	71	80	78
6445479	82	47	45	69	73	76
6445480	68	48	45	67	72	74
6445481	93	61	54	90	94	94
6445482	72	54	47	75	76	78
Blank	69	45	42	59	62	65
MS	95	68	68	79	90	92

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272535
Reported: 11/01/11 at 12:50 PM

Surrogate Quality Control

MSD	84	58	52	73	82	81
OPR	80	53	51	65	72	72
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6445474	76	74	77	68	73	
6445475	88	85	85	73	81	
6445476	79	78	77	70	78	
6445477	80	79	81	68	77	
6445478	78	76	76	63	72	
6445479	73	74	73	59	71	
6445480	73	72	70	59	69	
6445481	92	90	86	77	94	
6445482	77	78	72	63	75	
Blank	63	65	62	52	59	
MS	89	88	88	74	82	
MSD	80	79	76	69	75	
OPR	71	74	70	56	65	
Limits:	28-130	23-140	17-157	24-169	24-185	

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1272535 6445474-82

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS										Other Instructions and Notes
						*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	
SL-023-SA7-SB-2.5	10.20.11	0915	SOIL	NONE	2-Encores										X										
SL-023-SA7-SB-2.0-3.0	10.20.11	0918	SOIL	NONE	1-SS Sleeve			X	X																
SL-023-SA7-SB-2.0-3.0	10.20.11	0918	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X				X	X	X	X	
SL-060-SA7-SB-3.0	10.20.11	1100	SOIL	NONE	2-Encores										X										
SL-060-SA7-SB-2.5-3.5	10.20.11	1105	SOIL	NONE	1-SS Sleeve			X	X																
SL-060-SA7-SB-2.5-3.5	10.20.11	1105	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X				X	X	X	X	
SL-069-SA7-SB-3.0	10.20.11	1520	SOIL	NONE	2-Encores										X										
SL-069-SA7-SB-2.5-3.5	10.20.11	1523	SOIL	NONE	1-SS Sleeve			X	X																
SL-069-SA7-SB-2.5-3.5	10.20.11	1523	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X				X	X	X	X	
SL-148-SA7-SB-0.0-1.0	10.20.11	1423	SOIL	NONE	1-SS Sleeve			X	X																
SL-148-SA7-SB-0.0-1.0	10.20.11	1423	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X				X	X	X	X	
SL-026-SA5DS-SB-4.0-5.0	10.20.11	1237	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X	X											
SL-026-SA5DS-SB-9.0-10.0	10.20.11	1155	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X												
SL-040-SA5DS-SB-4.0-5.0	10.20.11	1001	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X												
SL-040-SA5DS-SB-9.0-10.0	10.20.11	0920	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X												
SL-016-SA8S-SB-4.0-5.0	10.20.11	1508	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X												
EB-SA5DS-SB-102D11	10.20.11	1400	WATER	NONE	1-1 L Amber													X							HGL ASTM II WATER-DTP crew
TB-1012011	10.20.11	0800	WATER	NONE	2-40 mL Vials										X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/20/2011 / 1630	10/21/11 0915	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8767 9858 7618,7629	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 18, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/22/2011
Group Number: 1272728
SDG: DE277
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-017-SA8S-SB-4.0-5.0 Soil	6446809
SL-018-SA8S-SB-4.0-5.0 Soil	6446810
SL-018-SA8S-SB-4.0-5.0MS Soil	6446811
SL-018-SA8S-SB-4.0-5.0MSD Soil	6446812
SL-018-SA8S-SB-4.0-5.0DUP Soil	6446813
SL-018-SA8S-SB-4.0-5.0RL MS Soil	6446814
SL-018-SA8S-SB-4.0-5.0RL LCS Soil	6446815
SL-018-SA8S-SB-7.5-8.5 Soil	6446816
DUP02-SA8S-QC-102111 Soil	6446817
SL-065-SA7-SB-2.0-3.0 Soil	6446818
SL-014-SA8S-SB-4.0-5.0 Soil	6446819
SL-014-SA8S-SB-7.0-8.0 Soil	6446820
SL-015-SA8S-SB-4.0-5.0 Soil	6446821
SL-015-SA8S-SB-9.0-10.0 Soil	6446822

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-017-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SB-4.0-5.0

LLI Sample # SW 6446809
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:13

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7301 SDG#: DE277-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-017-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SB-4.0-5.0

LLI Sample # SW 6446809
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:13

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7301 SDG#: DE277-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	1.0	J	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.82	J	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8	1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20	1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	34		6.6	20	1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8	1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.87	J	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	50		6.6	20	1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8	1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	28,400		6.51	21.5	1
07914	Boron	7440-42-8	11.5		0.387	5.38	1
01650	Calcium	7440-70-2	5,480		2.69	21.5	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-017-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SB-4.0-5.0

LLI Sample # SW 6446809
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:13

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7301 SDG#: DE277-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01654	Iron	7439-89-6	29,700		14.0	108	5
01656	Lithium	7439-93-2	27.9		0.67	2.2	1
01657	Magnesium	7439-95-4	6,630		0.474	10.8	1
06958	Manganese	7439-96-5	299		0.0387	0.538	1
10145	Phosphorus	7723-14-0	399		0.377	10.8	1
01662	Potassium	7440-09-7	3,490		12.2	53.8	1
01667	Sodium	7440-23-5	94.3	J	6.40	108	1
07968	Strontium	7440-24-6	22.0		0.0269	0.538	1
06969	Tin	7440-31-5	2.80	J	0.344	10.8	1
06970	Titanium	7440-32-6	1,200		0.0764	1.08	1
10146	Zirconium	7440-67-7	6.32		0.495	5.38	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.138	J	0.0789	0.213	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.70		0.0853	0.426	2
06126	Barium	7440-39-3	74.8		0.113	0.426	2
06127	Beryllium	7440-41-7	0.757		0.0171	0.107	2
06128	Cadmium	7440-43-9	0.159		0.0469	0.107	2
06131	Chromium	7440-47-3	28.5		0.128	0.426	2
06132	Cobalt	7440-48-4	9.96		0.0213	0.107	2
06133	Copper	7440-50-8	15.0		0.0853	0.426	2
06135	Lead	7439-92-1	8.87		0.0109	0.213	2
06138	Molybdenum	7439-98-7	0.555		0.0533	0.107	2
06139	Nickel	7440-02-0	17.7		0.107	0.426	2
06141	Selenium	7782-49-2	0.233	J	0.0618	0.426	2
06142	Silver	7440-22-4	0.0315	J	0.0151	0.107	2
06145	Thallium	7440-28-0	0.291		0.0320	0.107	2
06148	Vanadium	7440-62-2	48.3		0.0234	0.107	2
06149	Zinc	7440-66-6	68.2		0.597	3.20	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0172	J	0.0074	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.89	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.44	J	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-017-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SB-4.0-5.0

LLI Sample # SW 6446809
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:13

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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E7301 SDG#: DE277-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	6.89	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	8.9	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11297SLF026	10/27/2011 02:44	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11299SLF026	11/01/2011 07:45	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11299SLF026	10/27/2011 08:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11297SLF026	10/25/2011 08:45	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 08:20	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 17:35	John P Hook	5
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 08:09	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 20:11	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-017-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SB-4.0-5.0

LLI Sample # SW 6446809
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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7301 SDG#: DE277-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 20:11	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 20:11	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 20:11	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:27	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203B	11/03/2011 22:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621202A	11/04/2011 02:08	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11305243201A	11/04/2011 12:29	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203B	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621202A	10/25/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403B	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446810
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-018-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446810
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9	1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.51	J	0.37	1.9	1
10225	PCB-1254	11097-69-1	1.9	J	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.80	J	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS and this sample is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-018-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446810
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

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CDM Federal Programs Corp.
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E7302 SDG#: DE277-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	30,600		6.63	21.9	1
07914	Boron	7440-42-8	10.9		0.394	5.48	1
01650	Calcium	7440-70-2	14,300		2.74	21.9	1
01654	Iron	7439-89-6	28,600		14.3	110	5
01656	Lithium	7439-93-2	29.1		0.68	2.2	1
01657	Magnesium	7439-95-4	5,660		0.482	11.0	1
06958	Manganese	7439-96-5	315		0.0394	0.548	1
10145	Phosphorus	7723-14-0	187		0.383	11.0	1
01662	Potassium	7440-09-7	2,950		12.4	54.8	1
01667	Sodium	7440-23-5	84.3	J	6.52	110	1
07968	Strontium	7440-24-6	21.8		0.0274	0.548	1
06969	Tin	7440-31-5	3.05	J	0.351	11.0	1
06970	Titanium	7440-32-6	1,190		0.0778	1.10	1
10146	Zirconium	7440-67-7	5.59		0.504	5.48	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.115	J	0.0827	0.223	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.40		0.0894	0.447	2
06126	Barium	7440-39-3	122		0.118	0.447	2
06127	Beryllium	7440-41-7	0.920		0.0179	0.112	2
06128	Cadmium	7440-43-9	0.0985	J	0.0492	0.112	2
06131	Chromium	7440-47-3	28.6		0.134	0.447	2
06132	Cobalt	7440-48-4	8.56		0.0223	0.112	2
06133	Copper	7440-50-8	12.7		0.0894	0.447	2
06135	Lead	7439-92-1	8.34		0.0114	0.223	2
06138	Molybdenum	7439-98-7	0.596		0.0559	0.112	2
06139	Nickel	7440-02-0	17.1		0.112	0.447	2
06141	Selenium	7782-49-2	0.0883	J	0.0648	0.447	2
06142	Silver	7440-22-4	0.0334	J	0.0159	0.112	2
06145	Thallium	7440-28-0	0.357		0.0335	0.112	2
06148	Vanadium	7440-62-2	55.5		0.0246	0.112	2
06149	Zinc	7440-66-6	59.7		0.626	3.35	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0168	J	0.0078	0.111	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.91	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	J	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-018-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446810
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

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E7302 SDG#: DE277-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.87	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11297SLF026	10/27/2011 20:23	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11299SLF026	11/01/2011 06:05	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11299SLF026	10/27/2011 08:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11297SLF026	10/25/2011 08:45	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 08:38	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 17:00	John P Hook	5
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 07:01	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 19:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 19:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 19:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 19:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 19:19	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

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SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446810
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E7302 SDG#: DE277-02BKG

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06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 19:19	Choon Y Tian	2
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06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 19:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 19:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 19:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:28	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203B	11/03/2011 21:17	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621202A	11/04/2011 01:04	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11305243201A	11/04/2011 12:49	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203B	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621202A	10/25/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403B	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446811
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Acenaphthene	83-32-9	1,800		19	190	1
04688	Acenaphthylene	208-96-8	1,900		19	190	1
04688	Aniline	62-53-3	1,400		190	560	1
04688	Anthracene	120-12-7	1,900		19	190	1
04688	Benzidine	92-87-5	2,500	J	1,300	3,700	1
04688	Benzo(a)anthracene	56-55-3	1,700		19	190	1
04688	Benzo(a)pyrene	50-32-8	1,900		19	190	1
04688	Benzo(b)fluoranthene	205-99-2	1,900		19	190	1
04688	Benzo(g,h,i)perylene	191-24-2	1,800		19	190	1
04688	Benzo(k)fluoranthene	207-08-9	1,900		19	190	1
04688	Benzoic acid	65-85-0	530	J	190	560	1
04688	Benzyl alcohol	100-51-6	1,800		190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	1,800		19	190	1
04688	Butylbenzylphthalate	85-68-7	1,800		19	190	1
04688	Di-n-butylphthalate	84-74-2	1,800		19	190	1
04688	Carbazole	86-74-8	1,800		19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		37	190	1
04688	4-Chloroaniline	106-47-8	1,200		74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800		19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700		19	190	1
04688	2-Chloronaphthalene	91-58-7	1,600		19	190	1
04688	2-Chlorophenol	95-57-8	1,800		19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		37	190	1
04688	Chrysene	218-01-9	1,700		19	190	1
04688	Dibenz(a,h)anthracene	53-70-3	1,800		19	190	1
04688	Dibenzofuran	132-64-9	1,800		19	190	1
04688	1,2-Dichlorobenzene	95-50-1	1,600		19	190	1
04688	1,3-Dichlorobenzene	541-73-1	1,500		19	190	1
04688	1,4-Dichlorobenzene	106-46-7	1,500		19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	900		110	370	1
04688	2,4-Dichlorophenol	120-83-2	1,900		19	190	1
04688	Diethylphthalate	84-66-2	1,800		19	190	1
04688	2,4-Dimethylphenol	105-67-9	1,800		37	190	1
04688	3,5-Dimethylphenol	108-68-9	1,900		37	190	1
04688	Dimethylphthalate	131-11-3	1,800		19	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,200		190	560	1
04688	2,4-Dinitrophenol	51-28-5	1,500		370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	1,800		37	190	1
04688	2,6-Dinitrotoluene	606-20-2	1,900		19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	1,900		19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700		19	370	1
04688	Fluoranthene	206-44-0	1,900		19	190	1
04688	Fluorene	86-73-7	1,800		19	190	1
04688	Hexachlorobenzene	118-74-1	1,800		19	190	1
04688	Hexachlorobutadiene	87-68-3	1,700		74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	3,300		190	560	1
04688	Hexachloroethane	67-72-1	1,500		19	190	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800		19	190	1
04688	Isophorone	78-59-1	1,800		19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446811
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,700	19	190	1
04688	2-Methylnaphthalene	91-57-6	1,800	19	190	1
04688	2-Methylphenol	95-48-7	1,800	37	190	1
04688	4-Methylphenol	106-44-5	1,800	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,700	19	190	1
04688	2-Nitroaniline	88-74-4	1,900	19	190	1
04688	3-Nitroaniline	99-09-2	1,800	37	190	1
04688	4-Nitroaniline	100-01-6	1,500	74	190	1
04688	Nitrobenzene	98-95-3	1,800	19	190	1
04688	2-Nitrophenol	88-75-5	1,700	19	190	1
04688	4-Nitrophenol	100-02-7	1,600	190	560	1
04688	N-Nitrosodimethylamine	62-75-9	1,600	37	190	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,700	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	2,000	19	190	1
04688	Pentachlorophenol	87-86-5	1,600	190	560	1
04688	Phenanthrene	85-01-8	1,800	19	190	1
04688	Phenol	108-95-2	1,900	19	190	1
04688	Pyrene	129-00-0	1,800	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	1,800	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	1,800	37	190	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	32	0.74	1.9	1
10138	Acenaphthylene	208-96-8	32	0.37	1.9	1
10138	Anthracene	120-12-7	34	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	34	0.74	1.9	1
10138	Benzo(a)pyrene	50-32-8	34	0.74	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	35	0.74	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	34	0.74	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	36	0.74	1.9	1
10138	Butylbenzylphthalate	85-68-7	36	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	39	6.7	20	1
10138	Chrysene	218-01-9	34	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	36	0.74	1.9	1
10138	Diethylphthalate	84-66-2	36	6.7	20	1
10138	Dimethylphthalate	131-11-3	36	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	49	6.7	20	1
10138	Fluoranthene	206-44-0	35	0.74	1.9	1
10138	Fluorene	86-73-7	35	0.74	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	35	0.74	1.9	1
10138	1-Methylnaphthalene	90-12-0	31	0.74	1.9	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-018-SA8S-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446811
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	30		0.74	1.9	1
10138	Naphthalene	91-20-3	31		0.74	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	32		0.74	1.9	1
10138	Di-n-octylphthalate	117-84-0	54		6.7	20	1
10138	Phenanthrene	85-01-8	33		0.74	1.9	1
10138	Pyrene	129-00-0	34		0.74	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	20		0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	22		0.37	1.9	1
10225	PCB-1254	11097-69-1	4.6		0.37	1.9	1
10225	PCB-1260	11096-82-5	21		0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
	The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	34,800		6.63	21.9	1
07914	Boron	7440-42-8	220		0.394	5.48	1
01650	Calcium	7440-70-2	14,100		2.74	21.9	1
01654	Iron	7439-89-6	31,200		14.3	110	5
01656	Lithium	7439-93-2	142		0.68	2.2	1
01657	Magnesium	7439-95-4	6,220		0.482	11.0	1
06958	Manganese	7439-96-5	338		0.0394	0.548	1
10145	Phosphorus	7723-14-0	282		0.383	11.0	1
01662	Potassium	7440-09-7	4,610		12.4	54.8	1
01667	Sodium	7440-23-5	1,180		6.52	110	1
07968	Strontium	7440-24-6	131		0.0274	0.548	1
06969	Tin	7440-31-5	357		0.351	11.0	1
06970	Titanium	7440-32-6	1,430		0.0778	1.10	1
10146	Zirconium	7440-67-7	111		0.504	5.48	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.476		0.0803	0.217	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.19		0.0868	0.434	2
06126	Barium	7440-39-3	126		0.115	0.434	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446811
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**	**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	1.70	0.0174	0.108	2
06128	Cadmium	7440-43-9	1.23	0.0477	0.108	2
06131	Chromium	7440-47-3	38.1	0.130	0.434	2
06132	Cobalt	7440-48-4	63.1	0.0217	0.108	2
06133	Copper	7440-50-8	23.1	0.0868	0.434	2
06135	Lead	7439-92-1	11.6	0.0111	0.217	2
06138	Molybdenum	7439-98-7	10.8	0.0542	0.108	2
06139	Nickel	7440-02-0	27.1	0.108	0.434	2
06141	Selenium	7782-49-2	2.07	0.0629	0.434	2
06142	Silver	7440-22-4	11.3	0.0154	0.108	2
06145	Thallium	7440-28-0	0.755	0.0325	0.108	2
06148	Vanadium	7440-62-2	64.2	0.0239	0.108	2
06149	Zinc	7440-66-6	66.9	0.607	3.25	2
	SW-846 7471A		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.185	0.0074	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	10.0	0.91	1.1	1
	EPA 314.0		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	587	10.1	33.5	1
	SW-846 7199		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	42.5	1.1	5.6	5
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11297SLF026	10/27/2011 20:49	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11299SLF026	11/01/2011 06:38	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11299SLF026	10/27/2011 08:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11297SLF026	10/25/2011 08:45	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 08:57	Jessica L Miller	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-018-SA8S-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446811
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 17:12	John P Hook	5
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 07:13	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 19:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 19:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 19:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 19:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:31	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	2	11313621201A	11/09/2011 15:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621202A	11/04/2011 01:47	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11305243201A	11/04/2011 13:02	Elyse P Brunstetter	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	11306621203B	11/09/2011 06:05	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621202A	10/25/2011 06:30	William L Hamaker Jr	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-018-SA8S-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446811
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446812
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800		18	180	1
04688	Acenaphthylene	208-96-8	1,900		18	180	1
04688	Aniline	62-53-3	1,300		180	550	1
04688	Anthracene	120-12-7	1,800		18	180	1
04688	Benzidine	92-87-5	2,500	J	1,300	3,700	1
04688	Benzo(a)anthracene	56-55-3	1,800		18	180	1
04688	Benzo(a)pyrene	50-32-8	1,800		18	180	1
04688	Benzo(b)fluoranthene	205-99-2	1,800		18	180	1
04688	Benzo(g,h,i)perylene	191-24-2	1,800		18	180	1
04688	Benzo(k)fluoranthene	207-08-9	1,900		18	180	1
04688	Benzoic acid	65-85-0	530	J	180	550	1
04688	Benzyl alcohol	100-51-6	1,800		180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	1,700		18	180	1
04688	Butylbenzylphthalate	85-68-7	1,800		18	180	1
04688	Di-n-butylphthalate	84-74-2	1,800		18	180	1
04688	Carbazole	86-74-8	1,800		18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	1,800		37	180	1
04688	4-Chloroaniline	106-47-8	1,200		74	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800		18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	1,700		18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,600		18	180	1
04688	2-Chloronaphthalene	91-58-7	1,700		18	180	1
04688	2-Chlorophenol	95-57-8	1,800		18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800		37	180	1
04688	Chrysene	218-01-9	1,700		18	180	1
04688	Dibenz(a,h)anthracene	53-70-3	1,700		18	180	1
04688	Dibenzofuran	132-64-9	1,700		18	180	1
04688	1,2-Dichlorobenzene	95-50-1	1,600		18	180	1
04688	1,3-Dichlorobenzene	541-73-1	1,500		18	180	1
04688	1,4-Dichlorobenzene	106-46-7	1,500		18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	900		110	370	1
04688	2,4-Dichlorophenol	120-83-2	1,800		18	180	1
04688	Diethylphthalate	84-66-2	1,800		18	180	1
04688	2,4-Dimethylphenol	105-67-9	1,800		37	180	1
04688	3,5-Dimethylphenol	108-68-9	1,900		37	180	1
04688	Dimethylphthalate	131-11-3	1,800		18	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,300		180	550	1
04688	2,4-Dinitrophenol	51-28-5	1,500		370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	1,900		37	180	1
04688	2,6-Dinitrotoluene	606-20-2	1,900		18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	1,800		18	180	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,800		18	370	1
04688	Fluoranthene	206-44-0	1,900		18	180	1
04688	Fluorene	86-73-7	1,800		18	180	1
04688	Hexachlorobenzene	118-74-1	1,700		18	180	1
04688	Hexachlorobutadiene	87-68-3	1,600		74	180	1
04688	Hexachlorocyclopentadiene	77-47-4	3,100		180	550	1
04688	Hexachloroethane	67-72-1	1,500		18	180	1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800		18	180	1
04688	Isophorone	78-59-1	1,800		18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-018-SA8S-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446812
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	
04688	1-Methylnaphthalene	90-12-0	1,700	18	180	1
04688	2-Methylnaphthalene	91-57-6	1,800	18	180	1
04688	2-Methylphenol	95-48-7	1,800	37	180	1
04688	4-Methylphenol	106-44-5	1,700	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	Naphthalene	91-20-3	1,700	18	180	1
04688	2-Nitroaniline	88-74-4	1,800	18	180	1
04688	3-Nitroaniline	99-09-2	1,800	37	180	1
04688	4-Nitroaniline	100-01-6	1,600	74	180	1
04688	Nitrobenzene	98-95-3	1,800	18	180	1
04688	2-Nitrophenol	88-75-5	1,700	18	180	1
04688	4-Nitrophenol	100-02-7	1,700	180	550	1
04688	N-Nitrosodimethylamine	62-75-9	1,600	37	180	1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	1,700	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Di-n-octylphthalate	117-84-0	2,000	18	180	1
04688	Pentachlorophenol	87-86-5	1,500	180	550	1
04688	Phenanthrene	85-01-8	1,800	18	180	1
04688	Phenol	108-95-2	1,800	18	180	1
04688	Pyrene	129-00-0	1,700	18	180	1
04688	1,2,4-Trichlorobenzene	120-82-1	1,700	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	1,700	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	1,800	37	180	1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	34	0.73	1.8	1
10138	Acenaphthylene	208-96-8	34	0.37	1.8	1
10138	Anthracene	120-12-7	34	0.37	1.8	1
10138	Benzo(a)anthracene	56-55-3	36	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	35	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	36	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	34	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	38	0.73	1.8	1
10138	Butylbenzylphthalate	85-68-7	38	6.6	20	1
10138	Di-n-butylphthalate	84-74-2	40	6.6	20	1
10138	Chrysene	218-01-9	35	0.37	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	36	0.73	1.8	1
10138	Diethylphthalate	84-66-2	37	6.6	20	1
10138	Dimethylphthalate	131-11-3	37	6.6	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	54	6.6	20	1
10138	Fluoranthene	206-44-0	36	0.73	1.8	1
10138	Fluorene	86-73-7	36	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	35	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	32	0.73	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-018-SA8S-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446812
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	2-Methylnaphthalene	91-57-6	32		0.73	1.8	1
10138	Naphthalene	91-20-3	33		0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	34		0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	67		6.6	20	1
10138	Phenanthrene	85-01-8	34		0.73	1.8	1
10138	Pyrene	129-00-0	35		0.73	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	23		0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	22		0.37	1.9	1
10225	PCB-1254	11097-69-1	6.2		0.37	1.9	1
10225	PCB-1260	11096-82-5	23		0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1
	The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	26,600		6.76	22.3	1
07914	Boron	7440-42-8	215		0.402	5.59	1
01650	Calcium	7440-70-2	14,600		2.79	22.3	1
01654	Iron	7439-89-6	25,500		2.92	22.3	1
01656	Lithium	7439-93-2	131		0.69	2.2	1
01657	Magnesium	7439-95-4	5,430		0.492	11.2	1
06958	Manganese	7439-96-5	344		0.0402	0.559	1
10145	Phosphorus	7723-14-0	296		0.391	11.2	1
01662	Potassium	7440-09-7	3,850		12.6	55.9	1
01667	Sodium	7440-23-5	1,120		6.65	112	1
07968	Strontium	7440-24-6	129		0.0279	0.559	1
06969	Tin	7440-31-5	359		0.358	11.2	1
06970	Titanium	7440-32-6	1,370		0.0793	1.12	1
10146	Zirconium	7440-67-7	104		0.514	5.59	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.470		0.0795	0.215	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.63		0.0859	0.430	2
06126	Barium	7440-39-3	113		0.114	0.430	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-018-SA8S-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446812
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		mg/kg	mg/kg	mg/kg	
06127	Beryllium	7440-41-7	1.54	0.0172	0.107	2
06128	Cadmium	7440-43-9	1.13	0.0473	0.107	2
06131	Chromium	7440-47-3	35.0	0.129	0.430	2
06132	Cobalt	7440-48-4	60.8	0.0215	0.107	2
06133	Copper	7440-50-8	22.3	0.0859	0.430	2
06135	Lead	7439-92-1	9.95	0.0110	0.215	2
06138	Molybdenum	7439-98-7	10.5	0.0537	0.107	2
06139	Nickel	7440-02-0	26.2	0.107	0.430	2
06141	Selenium	7782-49-2	2.17	0.0623	0.430	2
06142	Silver	7440-22-4	11.0	0.0153	0.107	2
06145	Thallium	7440-28-0	0.697	0.0322	0.107	2
06148	Vanadium	7440-62-2	61.0	0.0236	0.107	2
06149	Zinc	7440-66-6	64.5	0.602	3.22	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.203	0.0077	0.110	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11297SLF026	10/27/2011 21:14	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11299SLF026	11/01/2011 07:11	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11299SLF026	10/27/2011 08:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11297SLF026	10/25/2011 08:45	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 09:16	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-018-SA8S-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446812
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 07:17	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 19:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 19:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 19:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 19:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:32	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446813
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	31,400		6.76	22.3	1
07914	Boron	7440-42-8	10.9		0.402	5.59	1
01650	Calcium	7440-70-2	12,400		2.79	22.3	1
01654	Iron	7439-89-6	30,600		14.6	112	5
01656	Lithium	7439-93-2	30.1		0.69	2.2	1
01657	Magnesium	7439-95-4	5,870		0.492	11.2	1
06958	Manganese	7439-96-5	357		0.0402	0.559	1
10145	Phosphorus	7723-14-0	184		0.391	11.2	1
01662	Potassium	7440-09-7	3,060		12.6	55.9	1
01667	Sodium	7440-23-5	84.8	J	6.65	112	1
07968	Strontium	7440-24-6	21.7		0.0279	0.559	1
06969	Tin	7440-31-5	3.22	J	0.358	11.2	1
06970	Titanium	7440-32-6	1,240		0.0793	1.12	1
10146	Zirconium	7440-67-7	7.16		0.514	5.59	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0900	J	0.0811	0.219	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.80		0.0876	0.438	2
06126	Barium	7440-39-3	126		0.116	0.438	2
06127	Beryllium	7440-41-7	0.909		0.0175	0.110	2
06128	Cadmium	7440-43-9	0.0833	J	0.0482	0.110	2
06131	Chromium	7440-47-3	28.2		0.131	0.438	2
06132	Cobalt	7440-48-4	8.78		0.0219	0.110	2
06133	Copper	7440-50-8	13.2		0.0876	0.438	2
06135	Lead	7439-92-1	8.21		0.0112	0.219	2
06138	Molybdenum	7439-98-7	0.561		0.0548	0.110	2
06139	Nickel	7440-02-0	17.5		0.110	0.438	2
06141	Selenium	7782-49-2	0.112	J	0.0635	0.438	2
06142	Silver	7440-22-4	0.0328	J	0.0156	0.110	2
06145	Thallium	7440-28-0	0.313		0.0329	0.110	2
06148	Vanadium	7440-62-2	55.9		0.0241	0.110	2
06149	Zinc	7440-66-6	59.4		0.613	3.29	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0228	J	0.0078	0.110	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.88	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.5	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.63	J	0.22	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-018-SA8S-SB-4.0-5.0DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446813
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.91	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11626	28a Moisture Content by 160.3	n.a.	10.7	0.50	0.50	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 17:08	John P Hook	5
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 07:09	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 19:26	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 19:26	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 19:26	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-018-SA8S-SB-4.0-5.0DUP Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446813
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 19:26	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:29	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203B	11/03/2011 21:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621202A	11/04/2011 01:25	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11305243201A	11/04/2011 13:59	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203B	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621202A	10/25/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403B	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0RL MS Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446814
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02RLR

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	3.0		0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	2.8		0.43	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS and this sample is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

Wet Chemistry	**EPA 160.3 modified**		%		%	%	
11625	Moisture Content by 160.3	n.a.	10.5		0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 09:35	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-4.0-5.0RL LCS Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446815
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7302 SDG#: DE277-02RLQ

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.3	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.3	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.3	1
10225	PCB-1016	12674-11-2	1.7	J	0.33	1.7	1
10225	PCB-1221	11104-28-2	0.33	U	0.33	1.7	1
10225	PCB-1232	11141-16-5	0.33	U	0.33	1.7	1
10225	PCB-1242	53469-21-9	0.33	U	0.33	1.7	1
10225	PCB-1248	12672-29-6	0.33	U	0.33	1.7	1
10225	PCB-1254	11097-69-1	0.33	U	0.33	1.7	1
10225	PCB-1260	11096-82-5	2.0		0.39	1.7	1
10225	PCB-1262	37324-23-5	0.33	U	0.33	1.7	1
10225	PCB-1268	11100-14-4	0.33	U	0.33	1.7	1

The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 09:54	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-7.5-8.5

LLI Sample # SW 6446816
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 09:30

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7303 SDG#: DE277-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-018-SA8S-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-7.5-8.5

LLI Sample # SW 6446816
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 09:30

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7303 SDG#: DE277-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19	1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J	6.5	19	1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	5.5		0.36	1.8	1
10225	PCB-1260	11096-82-5	1.1	J	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1

The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS and this sample is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-018-SA8S-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-7.5-8.5

LLI Sample # SW 6446816
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 09:30

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7303 SDG#: DE277-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Aroclor 5432 and 5460 were not analyzed in the ending calibration associated with the original analysis of this sample.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	12,900		6.53	21.6	1
07914	Boron	7440-42-8	3.99	J	0.389	5.40	1
01650	Calcium	7440-70-2	8,290		2.70	21.6	1
01654	Iron	7439-89-6	17,400		2.82	21.6	1
01656	Lithium	7439-93-2	23.9		0.67	2.2	1
01657	Magnesium	7439-95-4	3,170		0.475	10.8	1
06958	Manganese	7439-96-5	179		0.0389	0.540	1
10145	Phosphorus	7723-14-0	358		0.378	10.8	1
01662	Potassium	7440-09-7	1,680		12.2	54.0	1
01667	Sodium	7440-23-5	73.6	J	6.43	108	1
07968	Strontium	7440-24-6	21.2		0.0270	0.540	1
06969	Tin	7440-31-5	2.87	J	0.346	10.8	1
06970	Titanium	7440-32-6	986		0.0767	1.08	1
10146	Zirconium	7440-67-7	3.02	J	0.497	5.40	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0783	U	0.0783	0.212	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.24		0.0847	0.423	2
06126	Barium	7440-39-3	77.2		0.112	0.423	2
06127	Beryllium	7440-41-7	0.519		0.0169	0.106	2
06128	Cadmium	7440-43-9	0.0466	U	0.0466	0.106	2
06131	Chromium	7440-47-3	12.7		0.127	0.423	2
06132	Cobalt	7440-48-4	5.54		0.0212	0.106	2
06133	Copper	7440-50-8	6.42		0.0847	0.423	2
06135	Lead	7439-92-1	4.81		0.0108	0.212	2
06138	Molybdenum	7439-98-7	0.393		0.0529	0.106	2
06139	Nickel	7440-02-0	7.43		0.106	0.423	2
06141	Selenium	7782-49-2	0.0614	U	0.0614	0.423	2
06142	Silver	7440-22-4	0.0258	J	0.0150	0.106	2
06145	Thallium	7440-28-0	0.242		0.0318	0.106	2
06148	Vanadium	7440-62-2	31.5		0.0233	0.106	2
06149	Zinc	7440-66-6	48.7		0.593	3.18	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0072	U	0.0072	0.103	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.87	U	0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.4	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-018-SA8S-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-7.5-8.5

LLI Sample # SW 6446816
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 09:30

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7303 SDG#: DE277-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.33	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.4	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11297SLF026	10/27/2011 21:39	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11299SLF026	11/01/2011 08:19	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11299SLF026	10/27/2011 08:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11297SLF026	10/25/2011 08:45	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 11:27	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 08:13	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-018-SA8S-SB-7.5-8.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-7.5-8.5

LLI Sample # SW 6446816
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 09:30

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7303 SDG#: DE277-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 20:14	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 20:14	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 20:14	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 20:14	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:33	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203B	11/03/2011 22:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621202A	11/04/2011 02:50	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11305243201A	11/04/2011 14:13	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203B	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621202A	10/25/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403B	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: DUP02-SA8S-QC-102111 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S-QC-102111

LLI Sample # SW 6446817
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:15

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7304 SDG#: DE277-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	74	U	74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	74	U	74	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP02-SA8S-QC-102111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S-QC-102111

LLI Sample # SW 6446817
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:15

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7304 SDG#: DE277-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9	1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9	1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9	1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

*=This limit was used in the evaluation of the final result

Sample Description: **DUP02-SA8S-QC-102111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S-QC-102111

LLI Sample # SW 6446817
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:15

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7304 SDG#: DE277-04FD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Aroclor 5432 and 5460 were not analyzed in the ending calibration associated with the original analysis of this sample.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	27,400		6.51	21.5	1
07914	Boron	7440-42-8	9.11		0.387	5.38	1
01650	Calcium	7440-70-2	26,100		2.69	21.5	1
01654	Iron	7439-89-6	27,000		2.81	21.5	1
01656	Lithium	7439-93-2	27.4		0.67	2.2	1
01657	Magnesium	7439-95-4	5,210		0.473	10.8	1
06958	Manganese	7439-96-5	363		0.0387	0.538	1
10145	Phosphorus	7723-14-0	219		0.376	10.8	1
01662	Potassium	7440-09-7	3,050		12.2	53.8	1
01667	Sodium	7440-23-5	83.1	J	6.40	108	1
07968	Strontium	7440-24-6	23.4		0.0269	0.538	1
06969	Tin	7440-31-5	2.70	J	0.344	10.8	1
06970	Titanium	7440-32-6	1,090		0.0764	1.08	1
10146	Zirconium	7440-67-7	5.19	J	0.495	5.38	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.100	J	0.0820	0.221	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.72		0.0886	0.443	2
06126	Barium	7440-39-3	114		0.117	0.443	2
06127	Beryllium	7440-41-7	0.862		0.0177	0.111	2
06128	Cadmium	7440-43-9	0.0919	J	0.0487	0.111	2
06131	Chromium	7440-47-3	26.8		0.133	0.443	2
06132	Cobalt	7440-48-4	7.19		0.0221	0.111	2
06133	Copper	7440-50-8	11.7		0.0886	0.443	2
06135	Lead	7439-92-1	7.48		0.0113	0.221	2
06138	Molybdenum	7439-98-7	0.550		0.0554	0.111	2
06139	Nickel	7440-02-0	15.5		0.111	0.443	2
06141	Selenium	7782-49-2	0.162	J	0.0642	0.443	2
06142	Silver	7440-22-4	0.0444	J	0.0157	0.111	2
06145	Thallium	7440-28-0	0.285		0.0332	0.111	2
06148	Vanadium	7440-62-2	51.7		0.0244	0.111	2
06149	Zinc	7440-66-6	52.8		0.620	3.32	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0271	J	0.0078	0.110	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.88	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: DUP02-SA8S-QC-102111 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S-QC-102111

LLI Sample # SW 6446817
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:15

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7304 SDG#: DE277-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1	1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.25	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11297SLF026	10/27/2011 22:04	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11299SLF026	11/01/2011 08:52	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11299SLF026	10/27/2011 08:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11297SLF026	10/25/2011 08:45	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 11:46	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 08:24	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: DUP02-SA8S-QC-102111 Soil
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S-QC-102111

LLI Sample # SW 6446817
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:15

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7304 SDG#: DE277-04FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 20:26	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 20:26	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 20:26	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 20:26	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:34	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203B	11/03/2011 22:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621202A	11/04/2011 03:11	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11305243201A	11/04/2011 14:26	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203B	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621202A	10/25/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403B	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-065-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA7-SB-2.0-3.0

LLI Sample # SW 6446818
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:00

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7305 SDG#: DE277-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-065-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-065-SA7-SB-2.0-3.0

LLI Sample # SW 6446818
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:00

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7305 SDG#: DE277-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	0.34	U	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.69	U	0.69	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.69	U	0.69	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U	0.69	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U	0.69	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U	0.69	1.7	1
10138	Butylbenzylphthalate	85-68-7	13	J	6.2	19	1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19	1
10138	Chrysene	218-01-9	0.34	U	0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U	0.69	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.2	U	6.2	19	1
10138	Fluoranthene	206-44-0	0.69	U	0.69	1.7	1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U	0.69	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7	1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19	1
10138	Phenanthrene	85-01-8	0.69	U	0.69	1.7	1
10138	Pyrene	129-00-0	0.69	U	0.69	1.7	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8	1
10225	PCB-1260	11096-82-5	0.40	U	0.40	1.8	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1

The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The

*=This limit was used in the evaluation of the final result

Sample Description: **SL-065-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-065-SA7-SB-2.0-3.0

LLI Sample # SW 6446818
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:00

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7305 SDG#: DE277-05

surrogate recovery associated with the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

Aroclor 5432 and 5460 were not analyzed in the ending calibration associated with the original analysis of this sample.

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,000		6.24	20.6	1
07914	Boron	7440-42-8	4.54	J	0.371	5.16	1
01650	Calcium	7440-70-2	4,150		2.58	20.6	1
01654	Iron	7439-89-6	20,800		2.69	20.6	1
01656	Lithium	7439-93-2	25.6		0.64	2.1	1
01657	Magnesium	7439-95-4	4,780		0.454	10.3	1
06958	Manganese	7439-96-5	278		0.0371	0.516	1
10145	Phosphorus	7723-14-0	334		0.361	10.3	1
01662	Potassium	7440-09-7	2,510		11.7	51.6	1
01667	Sodium	7440-23-5	82.4	J	6.14	103	1
07968	Strontium	7440-24-6	14.7		0.0258	0.516	1
06969	Tin	7440-31-5	2.70	J	0.330	10.3	1
06970	Titanium	7440-32-6	1,040		0.0732	1.03	1
10146	Zirconium	7440-67-7	2.99	J	0.474	5.16	1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0734	U	0.0734	0.198	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.16		0.0794	0.397	2
06126	Barium	7440-39-3	68.1		0.105	0.397	2
06127	Beryllium	7440-41-7	0.505		0.0159	0.0992	2
06128	Cadmium	7440-43-9	0.0859	J	0.0437	0.0992	2
06131	Chromium	7440-47-3	15.6		0.119	0.397	2
06132	Cobalt	7440-48-4	5.17		0.0198	0.0992	2
06133	Copper	7440-50-8	7.95		0.0794	0.397	2
06135	Lead	7439-92-1	4.72		0.0101	0.198	2
06138	Molybdenum	7439-98-7	0.357		0.0496	0.0992	2
06139	Nickel	7440-02-0	9.90		0.0992	0.397	2
06141	Selenium	7782-49-2	0.0800	J	0.0575	0.397	2
06142	Silver	7440-22-4	0.0177	J	0.0141	0.0992	2
06145	Thallium	7440-28-0	0.258		0.0298	0.0992	2
06148	Vanadium	7440-62-2	31.9		0.0218	0.0992	2
06149	Zinc	7440-66-6	53.9		0.556	2.98	2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0073	U	0.0073	0.104	1
Wet Chemistry		**EPA 300.0**	**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1		0.84	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-065-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-065-SA7-SB-2.0-3.0

LLI Sample # SW 6446818
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:00

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7305 SDG#: DE277-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21	U	0.21	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.01		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.0		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11297SLF026	10/27/2011 22:30	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11299SLF026	11/01/2011 09:25	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11299SLF026	10/27/2011 08:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11297SLF026	10/25/2011 08:45	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 12:05	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-065-SA7-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA7-SB-2.0-3.0

LLI Sample # SW 6446818
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:00

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7305 SDG#: DE277-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 08:28	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 20:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 20:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 20:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 20:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:35	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203B	11/03/2011 22:51	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621202A	11/04/2011 03:32	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11305243201A	11/04/2011 14:40	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203B	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621202A	10/25/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403B	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-4.0-5.0

LLI Sample # SW 6446819
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:31

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7306 SDG#: DE277-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	540	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	540	1
04688	Benzyl alcohol	100-51-6	180	U	180	540	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	72	U	72	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	72	U	72	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	540	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	540	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-014-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-4.0-5.0

LLI Sample # SW 6446819
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:31

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7306 SDG#: DE277-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U	6.4	19	1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-014-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-4.0-5.0

LLI Sample # SW 6446819
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:31

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7306 SDG#: DE277-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Aroclor 5432 and 5460 were not analyzed in the ending calibration associated with the original analysis of this sample.						
Metals		**SW-846 6010B**	**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,400		6.38	21.1	1
07914	Boron	7440-42-8	11.5		0.380	5.28	1
01650	Calcium	7440-70-2	60,400		13.2	106	5
01654	Iron	7439-89-6	25,500		2.75	21.1	1
01656	Lithium	7439-93-2	24.6		0.65	2.1	1
01657	Magnesium	7439-95-4	5,750		0.464	10.6	1
06958	Manganese	7439-96-5	366		0.0380	0.528	1
10145	Phosphorus	7723-14-0	490		0.369	10.6	1
01662	Potassium	7440-09-7	2,980		11.9	52.8	1
01667	Sodium	7440-23-5	88.7	J	6.28	106	1
07968	Strontium	7440-24-6	62.5		0.0264	0.528	1
06969	Tin	7440-31-5	2.50	J	0.338	10.6	1
06970	Titanium	7440-32-6	964		0.0749	1.06	1
10146	Zirconium	7440-67-7	3.69	J	0.485	5.28	1
		SW-846 6020	**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0773	J	0.0766	0.207	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.54		0.0828	0.414	2
06126	Barium	7440-39-3	87.1		0.110	0.414	2
06127	Beryllium	7440-41-7	0.676		0.0166	0.104	2
06128	Cadmium	7440-43-9	0.203		0.0455	0.104	2
06131	Chromium	7440-47-3	24.8		0.124	0.414	2
06132	Cobalt	7440-48-4	7.79		0.0207	0.104	2
06133	Copper	7440-50-8	13.3		0.0828	0.414	2
06135	Lead	7439-92-1	7.86		0.0106	0.207	2
06138	Molybdenum	7439-98-7	0.405		0.0518	0.104	2
06139	Nickel	7440-02-0	14.3		0.104	0.414	2
06141	Selenium	7782-49-2	0.245	J	0.0600	0.414	2
06142	Silver	7440-22-4	0.0205	J	0.0147	0.104	2
06145	Thallium	7440-28-0	0.288		0.0311	0.104	2
06148	Vanadium	7440-62-2	45.1		0.0228	0.104	2
06149	Zinc	7440-66-6	60.1		0.580	3.11	2
		SW-846 7471A	**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0075	U	0.0075	0.106	1
Wet Chemistry		**EPA 300.0**	**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.86	1.1	1
		EPA 314.0	**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.3	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-014-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-4.0-5.0

LLI Sample # SW 6446819
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:31

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7306 SDG#: DE277-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		mg/kg		mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24	J	0.22	1.1	1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	7.96		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	
11624	Moisture Content by 160.3	n.a.	7.1		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11297SLF026	10/27/2011 22:56	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11299SLF026	11/01/2011 09:58	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11299SLF026	10/27/2011 08:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11297SLF026	10/25/2011 08:45	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 12:24	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 17:47	John P Hook	5
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 08:32	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 20:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 20:32	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-4.0-5.0

LLI Sample # SW 6446819
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:31

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7306 SDG#: DE277-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 20:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 20:32	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/31/2011 06:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 20:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 20:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 20:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 20:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 20:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 20:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 20:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 20:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 20:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 20:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 20:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:37	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203B	11/03/2011 23:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621202A	11/04/2011 03:53	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11305243201A	11/04/2011 15:07	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203B	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621202A	10/25/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403B	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-7.0-8.0

LLI Sample # SW 6446820
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:22

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7307 SDG#: DE277-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	550	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	180	U	180	550	1
04688	Benzyl alcohol	100-51-6	180	U	180	550	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180	1
04688	4-Chloroaniline	106-47-8	73	U	73	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	37	U	37	180	1
04688	4-Methylphenol	106-44-5	37	U	37	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	37	U	37	180	1
04688	4-Nitroaniline	100-01-6	73	U	73	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	550	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	550	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-014-SA8S-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-7.0-8.0

LLI Sample # SW 6446820
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:22

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7307 SDG#: DE277-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	20	1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	20	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	20	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	30		6.5	20	1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	44		6.5	20	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.43	U	0.43	1.9	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9	1

The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-014-SA8S-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-7.0-8.0

LLI Sample # SW 6446820
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:22

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7307 SDG#: DE277-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Aroclor 5432 and 5460 were not analyzed in the ending calibration associated with the original analysis of this sample.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,000		6.53	21.6	1
07914	Boron	7440-42-8	11.8		0.389	5.40	1
01650	Calcium	7440-70-2	110,000		13.5	108	5
01654	Iron	7439-89-6	23,500		2.82	21.6	1
01656	Lithium	7439-93-2	23.6		0.67	2.2	1
01657	Magnesium	7439-95-4	5,890		0.475	10.8	1
06958	Manganese	7439-96-5	398		0.0389	0.540	1
10145	Phosphorus	7723-14-0	481		0.378	10.8	1
01662	Potassium	7440-09-7	3,260		12.2	54.0	1
01667	Sodium	7440-23-5	122		6.42	108	1
07968	Strontium	7440-24-6	107		0.0270	0.540	1
06969	Tin	7440-31-5	2.40	J	0.346	10.8	1
06970	Titanium	7440-32-6	963		0.0767	1.08	1
10146	Zirconium	7440-67-7	4.20	J	0.497	5.40	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.113	J	0.0807	0.218	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.73		0.0872	0.436	2
06126	Barium	7440-39-3	92.4		0.116	0.436	2
06127	Beryllium	7440-41-7	0.659		0.0174	0.109	2
06128	Cadmium	7440-43-9	0.233		0.0480	0.109	2
06131	Chromium	7440-47-3	26.1		0.131	0.436	2
06132	Cobalt	7440-48-4	7.85		0.0218	0.109	2
06133	Copper	7440-50-8	14.5		0.0872	0.436	2
06135	Lead	7439-92-1	8.44		0.0111	0.218	2
06138	Molybdenum	7439-98-7	0.364		0.0545	0.109	2
06139	Nickel	7440-02-0	15.7		0.109	0.436	2
06141	Selenium	7782-49-2	0.206	J	0.0632	0.436	2
06142	Silver	7440-22-4	0.0180	J	0.0155	0.109	2
06145	Thallium	7440-28-0	0.281		0.0327	0.109	2
06148	Vanadium	7440-62-2	45.8		0.0240	0.109	2
06149	Zinc	7440-66-6	58.6		0.611	3.27	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0121	J	0.0076	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1	J	0.88	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	33.0	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-014-SA8S-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-7.0-8.0

LLI Sample # SW 6446820
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:22

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7307 SDG#: DE277-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.22		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	9.2		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11297SLF026	10/27/2011 23:21	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11299SLF026	11/01/2011 10:31	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11299SLF026	10/27/2011 08:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11297SLF026	10/25/2011 08:45	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 12:42	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 17:50	John P Hook	5
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 08:37	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-014-SA8S-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-7.0-8.0

LLI Sample # SW 6446820
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:22

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7307 SDG#: DE277-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 20:35	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 20:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 20:35	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 20:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:40	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203B	11/03/2011 23:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621202A	11/04/2011 04:14	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11305243201A	11/04/2011 15:27	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203B	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621202A	10/25/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403B	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-015-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-4.0-5.0

LLI Sample # SW 6446821
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7308 SDG#: DE277-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-015-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-4.0-5.0

LLI Sample # SW 6446821
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7308 SDG#: DE277-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19	1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19	1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19	1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5	U	6.5	19	1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	9.1	J	6.5	19	1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.8	1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.8	1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.8	1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8	1
10225	PCB-1254	11097-69-1	0.59	J	0.36	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8	1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8	1

The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-015-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-4.0-5.0

LLI Sample # SW 6446821
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7308 SDG#: DE277-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Aroclor 5432 and 5460 were not analyzed in the ending calibration associated with the original analysis of this sample.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,300		6.24	20.6	1
07914	Boron	7440-42-8	12.8		0.371	5.15	1
01650	Calcium	7440-70-2	72,800		12.9	103	5
01654	Iron	7439-89-6	23,200		2.69	20.6	1
01656	Lithium	7439-93-2	23.2		0.64	2.1	1
01657	Magnesium	7439-95-4	5,900		0.454	10.3	1
06958	Manganese	7439-96-5	433		0.0371	0.515	1
10145	Phosphorus	7723-14-0	512		0.361	10.3	1
01662	Potassium	7440-09-7	3,310		11.6	51.5	1
01667	Sodium	7440-23-5	92.9	J	6.13	103	1
07968	Strontium	7440-24-6	72.6		0.0258	0.515	1
06969	Tin	7440-31-5	2.25	J	0.330	10.3	1
06970	Titanium	7440-32-6	893		0.0732	1.03	1
10146	Zirconium	7440-67-7	3.57	J	0.474	5.15	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0770	U	0.0770	0.208	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.76		0.0833	0.416	2
06126	Barium	7440-39-3	95.7		0.110	0.416	2
06127	Beryllium	7440-41-7	0.619		0.0167	0.104	2
06128	Cadmium	7440-43-9	0.239		0.0458	0.104	2
06131	Chromium	7440-47-3	26.2		0.125	0.416	2
06132	Cobalt	7440-48-4	7.94		0.0208	0.104	2
06133	Copper	7440-50-8	13.2		0.0833	0.416	2
06135	Lead	7439-92-1	7.59		0.0106	0.208	2
06138	Molybdenum	7439-98-7	0.385		0.0520	0.104	2
06139	Nickel	7440-02-0	15.2		0.104	0.416	2
06141	Selenium	7782-49-2	0.224	J	0.0604	0.416	2
06142	Silver	7440-22-4	0.0154	J	0.0148	0.104	2
06145	Thallium	7440-28-0	0.314		0.0312	0.104	2
06148	Vanadium	7440-62-2	45.2		0.0229	0.104	2
06149	Zinc	7440-66-6	62.7		0.583	3.12	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0079	J	0.0074	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.0	J	0.87	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.5	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-015-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-4.0-5.0

LLI Sample # SW 6446821
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7308 SDG#: DE277-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22	U	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.95		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	7.6		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11297SLF026	10/27/2011 23:46	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11299SLF026	11/01/2011 11:04	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11299SLF026	10/27/2011 08:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11297SLF026	10/25/2011 08:45	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 13:01	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 17:54	John P Hook	5
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 08:41	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-015-SA8S-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-4.0-5.0

LLI Sample # SW 6446821
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:23

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7308 SDG#: DE277-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 20:38	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/31/2011 06:49	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 20:38	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 20:38	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:41	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203B	11/03/2011 23:26	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621202A	11/04/2011 04:35	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11305243201A	11/04/2011 15:40	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203B	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621202A	10/25/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403B	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-015-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-9.0-10.0

LLI Sample # SW 6446822
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:19

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7309 SDG#: DE277-09*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	190	U	190	560	1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700	1
04688	Benzoic acid	65-85-0	190	U	190	560	1
04688	Benzyl alcohol	100-51-6	190	U	190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190	1
04688	Carbazole	86-74-8	19	U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190	1
04688	4-Chloroaniline	106-47-8	74	U	74	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190	1
04688	2-Chlorophenol	95-57-8	19	U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190	1
04688	Dibenzofuran	132-64-9	19	U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190	1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560	1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190	1
04688	Hexachlorobenzene	118-74-1	19	U	19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U	74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560	1
04688	Hexachloroethane	67-72-1	19	U	19	190	1
04688	Isophorone	78-59-1	19	U	19	190	1
04688	2-Methylphenol	95-48-7	37	U	37	190	1
04688	4-Methylphenol	106-44-5	37	U	37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U	19	190	1
04688	3-Nitroaniline	99-09-2	37	U	37	190	1
04688	4-Nitroaniline	100-01-6	74	U	74	190	1
04688	Nitrobenzene	98-95-3	19	U	19	190	1
04688	2-Nitrophenol	88-75-5	19	U	19	190	1
04688	4-Nitrophenol	100-02-7	190	U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U	190	560	1
04688	Phenol	108-95-2	19	U	19	190	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-015-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-9.0-10.0

LLI Sample # SW 6446822
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:19

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7309 SDG#: DE277-09*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.74	U	0.74	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.74	U	0.74	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.74	U	0.74	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U	0.74	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U	0.74	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U	0.74	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20	1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20	1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U	0.74	1.9	1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20	1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20	1
10138	Fluoranthene	206-44-0	0.74	U	0.74	1.9	1
10138	Fluorene	86-73-7	0.74	U	0.74	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U	0.74	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.74	U	0.74	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.74	U	0.74	1.9	1
10138	Naphthalene	91-20-3	0.74	U	0.74	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.74	U	0.74	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20	1
10138	Phenanthrene	85-01-8	0.74	U	0.74	1.9	1
10138	Pyrene	129-00-0	0.74	U	0.74	1.9	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9	1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9	1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9	1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9	1
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9	1

The Laboratory Control Spike is outside the QC limits for Aroclor 1260. The surrogate recovery associated with the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-015-SA8S-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-9.0-10.0

LLI Sample # SW 6446822
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:19

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7309 SDG#: DE277-09*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
	Aroclor 5432 and 5460 were not analyzed in the ending calibration associated with the original analysis of this sample.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	21,700		6.78	22.4	1
07914	Boron	7440-42-8	12.9		0.404	5.61	1
01650	Calcium	7440-70-2	92,700		14.0	112	5
01654	Iron	7439-89-6	25,200		2.93	22.4	1
01656	Lithium	7439-93-2	24.4		0.70	2.2	1
01657	Magnesium	7439-95-4	6,540		0.493	11.2	1
06958	Manganese	7439-96-5	375		0.0404	0.561	1
10145	Phosphorus	7723-14-0	517		0.392	11.2	1
01662	Potassium	7440-09-7	3,020		12.7	56.1	1
01667	Sodium	7440-23-5	116		6.67	112	1
07968	Strontium	7440-24-6	97.7		0.0280	0.561	1
06969	Tin	7440-31-5	2.59	J	0.359	11.2	1
06970	Titanium	7440-32-6	881		0.0796	1.12	1
10146	Zirconium	7440-67-7	4.87	J	0.516	5.61	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.104	J	0.0813	0.220	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.29		0.0879	0.440	2
06126	Barium	7440-39-3	91.4		0.117	0.440	2
06127	Beryllium	7440-41-7	0.751		0.0176	0.110	2
06128	Cadmium	7440-43-9	0.255		0.0484	0.110	2
06131	Chromium	7440-47-3	29.6		0.132	0.440	2
06132	Cobalt	7440-48-4	8.51		0.0220	0.110	2
06133	Copper	7440-50-8	15.0		0.0879	0.440	2
06135	Lead	7439-92-1	9.03		0.0112	0.220	2
06138	Molybdenum	7439-98-7	0.381		0.0550	0.110	2
06139	Nickel	7440-02-0	16.2		0.110	0.440	2
06141	Selenium	7782-49-2	0.436	J	0.0637	0.440	2
06142	Silver	7440-22-4	0.0213	J	0.0156	0.110	2
06145	Thallium	7440-28-0	0.284		0.0330	0.110	2
06148	Vanadium	7440-62-2	51.1		0.0242	0.110	2
06149	Zinc	7440-66-6	59.8		0.615	3.30	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0076	U	0.0076	0.108	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8		0.91	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-015-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-9.0-10.0

LLI Sample # SW 6446822
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:19

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7309 SDG#: DE277-09*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26	J	0.22	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.90		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.8		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11297SLF026	10/28/2011 00:11	Holly Berry	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11299SLF026	11/01/2011 11:37	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11299SLF026	10/27/2011 08:00	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	11297SLF026	10/25/2011 08:45	Kerrie A Freeburn	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	112990025A	11/01/2011 13:20	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	112990025A	10/27/2011 10:40	Denise L Trimby	1
01643	Aluminum	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
07914	Boron	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
01650	Calcium	SW-846 6010B	1	112975708006	10/29/2011 17:58	John P Hook	5
01654	Iron	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
01656	Lithium	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
01657	Magnesium	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
06958	Manganese	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
10145	Phosphorus	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
01662	Potassium	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
01667	Sodium	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
07968	Strontium	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
06969	Tin	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
06970	Titanium	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
10146	Zirconium	SW-846 6010B	1	112975708006	10/29/2011 08:45	Damary Valentin	1
06124	Antimony	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-015-SA8S-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-9.0-10.0

LLI Sample # SW 6446822
LLI Group # 1272728
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:19

Submitted: 10/22/2011 09:30
Reported: 11/18/2011 11:59

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7309 SDG#: DE277-09*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	112971026003D	10/26/2011 20:41	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2
06133	Copper	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2
06135	Lead	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	112971026003C	10/26/2011 20:41	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	112971026003B	10/26/2011 20:41	Choon Y Tian	2
06142	Silver	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	112971026003A	10/26/2011 20:41	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	112975711003	10/25/2011 18:42	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	112975708006	10/25/2011 11:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	112971026003	10/25/2011 12:14	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	112975711003	10/25/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11306621203B	11/03/2011 23:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11298621202A	11/04/2011 04:56	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11305243201A	11/04/2011 15:53	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11306621203B	11/02/2011 08:30	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11298621202A	10/25/2011 06:30	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11300039403B	10/27/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11305243201A	11/01/2011 10:35	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272728
Reported: 11/18/11 at 11:59 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11297SLF026	Sample number(s): 6446809-6446812,6446816-6446822									
Acenaphthene	17	U	17.	170	ug/kg	99		76-111		
Acenaphthylene	17	U	17.	170	ug/kg	106		75-122		
Aniline	170 U		170.	500	ug/kg	68		20-115		
Anthracene	17	U	17.	170	ug/kg	101		76-112		
Benzidine	1,200 U		1,200.	3,300	ug/kg	39		15-121		
Benzo(a)anthracene	17	U	17.	170	ug/kg	97		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	103		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	91		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	106		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	105		67-125		
Benzoic acid	170 U		170.	500	ug/kg	86		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	97		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	98		73-114		
Butylbenzylphthalate	17	U	17.	170	ug/kg	99		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	100		79-112		
Carbazole	17	U	17.	170	ug/kg	99		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	99		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	51		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	99		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	94		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	93		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	76		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	100		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	98		74-115		
Chrysene	17	U	17.	170	ug/kg	95		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	105		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	96		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	91		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	89		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	89		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	37		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	102		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	99		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	99		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	103		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	102		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	79		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	75		18-133		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272728
Reported: 11/18/11 at 11:59 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	103		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	105		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	100		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	97		75-117		
Fluoranthene	17	U	17.	170	ug/kg	102		78-116		
Fluorene	17	U	17.	170	ug/kg	102		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	98		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	94		65-117		
Hexachlorocyclopentadiene	170	U	170.	500	ug/kg	95		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	87		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	105		64-119		
Isophorone	17	U	17.	170	ug/kg	99		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	95		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	99		69-109		
2-Methylphenol	33	U	33.	170	ug/kg	101		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	99		66-117		
Naphthalene	17	U	17.	170	ug/kg	96		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	103		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	94		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	78		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	99		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	98		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	91		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	92		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	85		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	100		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	107		62-137		
Pentachlorophenol	170	U	170.	500	ug/kg	93		51-117		
Phenanthrene	17	U	17.	170	ug/kg	98		77-113		
Phenol	17	U	17.	170	ug/kg	103		58-112		
Pyrene	17	U	17.	170	ug/kg	99		75-115		
Tetralin	170	U	170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	97		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	100		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	100		78-111		
Batch number: 11299SLF026	Sample number(s): 6446809-6446812,6446816-6446822									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	96		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	91		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	94		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	97		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	95		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	98		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	95		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	103		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	102		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	105		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	95		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	99		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	101		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	101		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	111		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	97		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	100		71-120		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272728
Reported: 11/18/11 at 11:59 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	98		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	88		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	87		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	89		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	87		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	100		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	93		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	95		72-119		
Batch number: 112990025A	Sample number(s): 6446809-6446812,6446814-6446822									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	85	61	36-106	32*	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	117		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	153*		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 112971026003A	Sample number(s): 6446809-6446813,6446816-6446822									
Antimony	0.0705	U	0.0705	0.190	mg/kg	79		40-227		
Arsenic	0.0762	U	0.0762	0.381	mg/kg	105		83-111		
Beryllium	0.0152	U	0.0152	0.0952	mg/kg	104		84-112		
Cadmium	0.0419	U	0.0419	0.0952	mg/kg	102		83-111		
Chromium	0.114	U	0.114	0.381	mg/kg	112		77-123		
Cobalt	0.0190	U	0.0190	0.0952	mg/kg	107		85-114		
Copper	0.0762	U	0.0762	0.381	mg/kg	107		81-110		
Lead	0.0121	J	0.0097	0.190	mg/kg	101		84-112		
Nickel	0.0952	U	0.0952	0.381	mg/kg	101		81-110		
Silver	0.0135	U	0.0135	0.0952	mg/kg	103		83-112		
Thallium	0.0286	U	0.0286	0.0952	mg/kg	100		82-112		
Vanadium	0.0210	U	0.0210	0.0952	mg/kg	102		76-110		
Zinc	0.533	U	0.533	2.86	mg/kg	99		82-110		
Batch number: 112971026003B	Sample number(s): 6446809-6446813,6446816-6446822									
Selenium	0.0552	U	0.0552	0.381	mg/kg	101		79-110		
Batch number: 112971026003C	Sample number(s): 6446809-6446813,6446816-6446822									
Molybdenum	0.0476	U	0.0476	0.0952	mg/kg	101		80-110		
Batch number: 112971026003D	Sample number(s): 6446809-6446813,6446816-6446822									
Barium	0.101	U	0.101	0.381	mg/kg	102		83-110		
Batch number: 112975708006	Sample number(s): 6446809-6446813,6446816-6446822									
Aluminum	6.05	U	6.05	20.0	mg/kg	88		40-127		
Boron	0.447	J	0.360	5.00	mg/kg	102		83-110		
Calcium	17.2	J	2.50	20.0	mg/kg	95		81-110		
Iron	2.61	U	2.61	20.0	mg/kg	88		47-129		
Lithium	0.62	U	0.62	2.0	mg/kg	101		80-120		
Magnesium	2.05	J	0.440	10.0	mg/kg	91		63-116		
Manganese	0.0480	J	0.0360	0.500	mg/kg	101		85-116		
Phosphorus	1.14	J	0.350	10.0	mg/kg	103		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	103		71-110		
Sodium	5.95	U	5.95	100	mg/kg	103		76-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272728
Reported: 11/18/11 at 11:59 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Strontium	0.0770	J	0.0250	0.500	mg/kg	101		84-110		
Tin	1.18	J	0.320	10.0	mg/kg	94		86-120		
Titanium	0.0710	U	0.0710	1.00	mg/kg	91		80-120		
Zirconium	0.460	U	0.460	5.00	mg/kg	101		80-120		
Batch number: 112975711003	Sample number(s): 6446809-6446813,6446816-6446822									
Mercury	0.0070	U	0.0070	0.0989	mg/kg	111		83-119		
Batch number: 11298621202A	Sample number(s): 6446809-6446811,6446813,6446816-6446822									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	106		85-115		
Batch number: 11305243201A	Sample number(s): 6446809-6446811,6446813,6446816-6446822									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	95		80-120		
Batch number: 11306621203B	Sample number(s): 6446809-6446810,6446813,6446816-6446822									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	101		90-110		
Batch number: 11313621201A	Sample number(s): 6446811									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	106		90-110		
Batch number: 11300039403B	Sample number(s): 6446809-6446810,6446813,6446816-6446822									
17a pH by 9045C						100		95-105		
Batch number: 11305162401A	Sample number(s): 6446809-6446814,6446816-6446822									
28a Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11297SLF026	Sample number(s): 6446809-6446812,6446816-6446822 UNSPK: 6446810								
Acenaphthene	97	95	75-115	2	30				
Acenaphthylene	104	104	81-110	0	30				
Aniline	75	70	18-116	8	30				
Anthracene	100	97	75-115	4	30				
Benzidine	27*	27*	35-141	2	30				
Benzo(a)anthracene	93	95	65-122	1	30				
Benzo(a)pyrene	102	99	57-126	3	30				
Benzo(b)fluoranthene	101	98	59-125	4	30				
Benzo(g,h,i)perylene	96	95	59-127	1	30				
Benzo(k)fluoranthene	104	103	56-132	2	30				
Benzoic acid	28	29	10-173	0	30				
Benzyl alcohol	96	95	67-115	1	30				
4-Bromophenyl-phenylether	96	91	67-129	6	30				
Butylbenzylphthalate	96	98	73-134	1	30				
Di-n-butylphthalate	98	97	67-123	2	30				
Carbazole	96	96	64-120	1	30				
4-Chloro-3-methylphenol	99	99	62-122	0	30				
4-Chloroaniline	66	66	13-107	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272728
Reported: 11/18/11 at 11:59 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
bis(2-Chloroethoxy)methane	98	98	75-104	1	30				
bis(2-Chloroethyl)ether	91	89	60-116	3	30				
bis(2-Chloroisopropyl)ether	89	86	55-142	4	30				
2-Chloronaphthalene	84	91	50-141	8	30				
2-Chlorophenol	98	96	73-121	3	30				
4-Chlorophenyl-phenylether	97	95	80-109	2	30				
Chrysene	90	92	62-128	1	30				
Dibenz(a,h)anthracene	96	94	65-125	2	30				
Dibenzofuran	95	95	71-112	0	30				
1,2-Dichlorobenzene	85	85	66-108	1	30				
1,3-Dichlorobenzene	81	81	63-109	0	30				
1,4-Dichlorobenzene	83	83	58-108	0	30				
3,3'-Dichlorobenzidine	48	49	28-109	1	30				
2,4-Dichlorophenol	101	98	66-123	3	30				
Diethylphthalate	96	97	66-118	0	30				
2,4-Dimethylphenol	99	96	68-118	4	30				
3,5-Dimethylphenol	105	103	71-127	3	30				
Dimethylphthalate	98	98	64-118	1	30				
4,6-Dinitro-2-methylphenol	67	69	11-126	2	30				
2,4-Dinitrophenol	40	40	20-143	0	30				
2,4-Dinitrotoluene	97	101	56-129	4	30				
2,6-Dinitrotoluene	101	102	69-123	1	30				
1,2-Diphenylhydrazine	100	95	71-129	6	30				
bis(2-Ethylhexyl)phthalate	93	95	63-122	1	30				
Fluoranthene	101	103	73-112	2	30				
Fluorene	97	98	63-121	1	30				
Hexachlorobenzene	96	93	77-114	4	30				
Hexachlorobutadiene	91	88	62-120	4	30				
Hexachlorocyclopentadiene	90	85	10-153	6	30				
Hexachloroethane	80	80	57-109	0	30				
Indeno(1,2,3-cd)pyrene	97	95	61-126	2	30				
Isophorone	97	96	73-102	1	30				
1-Methylnaphthalene	93	92	64-122	1	30				
2-Methylnaphthalene	97	96	76-114	1	30				
2-Methylphenol	99	96	75-111	3	30				
4-Methylphenol	97	94	59-123	4	30				
Naphthalene	93	92	72-116	2	30				
2-Nitroaniline	100	100	67-125	1	30				
3-Nitroaniline	97	98	59-122	1	30				
4-Nitroaniline	81	85	41-109	5	30				
Nitrobenzene	95	95	57-125	1	30				
2-Nitrophenol	93	93	56-127	0	30				
4-Nitrophenol	88	94	37-129	6	30				
N-Nitroso-di-n-propylamine	90	87	60-116	4	30				
N-Nitrosodimethylamine	86	87	47-116	1	30				
N-Nitrosodiphenylamine	99	95	71-122	5	30				
Di-n-octylphthalate	108	106	56-126	2	30				
Pentachlorophenol	84	80	28-127	6	30				
Phenanthrene	97	95	65-125	3	30				
Phenol	102	99	58-126	4	30				
Pyrene	96	94	74-126	3	30				
1,2,4-Trichlorobenzene	92	91	72-115	1	30				
2,4,5-Trichlorophenol	95	93	58-129	3	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272728
Reported: 11/18/11 at 11:59 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4,6-Trichlorophenol	97	96	56-134	2	30				
Batch number: 11299SLF026	Sample number(s): 6446809-6446812,6446816-6446822 UNSPK: 6446810								
Acenaphthene	87	94	63-105	6	30				
Acenaphthylene	85	92	67-114	6	30				
Anthracene	90	94	73-115	3	30				
Benzo(a)anthracene	92	98	59-128	4	30				
Benzo(a)pyrene	91	96	58-142	3	30				
Benzo(b)fluoranthene	93	99	54-163	5	30				
Benzo(g,h,i)perylene	91	93	33-141	1	30				
Benzo(k)fluoranthene	98	103	57-153	4	30				
Butylbenzylphthalate	97	105	57-173	6	30				
Di-n-butylphthalate	105	109	65-148	2	30				
Chrysene	91	96	67-123	3	30				
Dibenz(a,h)anthracene	95	98	22-133	1	30				
Diethylphthalate	98	101	70-136	2	30				
Dimethylphthalate	97	101	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	132	148	39-167	9	30				
Fluoranthene	95	99	51-149	3	30				
Fluorene	95	99	66-122	2	30				
Indeno(1,2,3-cd)pyrene	94	97	21-143	1	30				
1-Methylnaphthalene	83	88	72-123	4	30				
2-Methylnaphthalene	82	87	64-103	5	30				
Naphthalene	84	90	61-102	5	30				
N-Nitrosodimethylamine	86	93	48-113	6	30				
Di-n-octylphthalate	145	182	40-192	21	30				
Phenanthrene	88	93	62-122	4	30				
Pyrene	92	97	51-131	4	30				
Batch number: 112990025A	Sample number(s): 6446809-6446812,6446814-6446822 UNSPK: 6446810								
PCB-1016	109	123	29-146	12	50				
PCB-1260	110	118	39-149	7	50				
Batch number: 112971026003A	Sample number(s): 6446809-6446813,6446816-6446822 UNSPK: 6446810 BKG: 6446810								
Antimony	28*	28*	75-125	1	20	0.103 J	0.0806 J	25* (1)	20
Arsenic	82	57*	75-125	6	20	6.62	6.98	5	20
Beryllium	90	72*	75-125	10	20	0.824	0.814	1	20
Cadmium	105	96	75-125	9	20	0.0882 J	0.0745 J	17 (1)	20
Chromium	88	60*	75-125	9	20	25.6	25.3	1	20
Cobalt	101	97	75-125	4	20	7.66	7.86	3	20
Copper	95	89	75-125	3	20	11.4	11.8	4	20
Lead	101	50*	75-125	15	20	7.46	7.35	1	20
Nickel	92	85	75-125	3	20	15.3	15.6	2	20
Silver	104	102	75-125	2	20	0.0299 J	0.0293 J	2 (1)	20
Thallium	92	79	75-125	8	20	0.319	0.280	13 (1)	20
Vanadium	80 (2)	51 (2)	75-125	5	20	49.7	50.1	1	20
Zinc	67 (2)	45 (2)	75-125	4	20	53.4	53.2	0	20
Batch number: 112971026003B	Sample number(s): 6446809-6446813,6446816-6446822 UNSPK: 6446810 BKG: 6446810								
Selenium	91	97	75-125	5	20	0.0790 J	0.0998 J	23* (1)	20
Batch number: 112971026003C	Sample number(s): 6446809-6446813,6446816-6446822 UNSPK: 6446810 BKG: 6446810								
Molybdenum	94	92	75-125	3	20	0.533	0.502	6	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272728
Reported: 11/18/11 at 11:59 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Batch number: 112971026003D	Sample number(s): 6446809-6446813,6446816-6446822 UNSPK: 6446810 BKG: 6446810										
Barium	43 (2)	-80 (2)	75-125	11	20	109		113		3	20
Batch number: 112975708006	Sample number(s): 6446809-6446813,6446816-6446822 UNSPK: 6446810 BKG: 6446810										
Aluminum	1918 (2)	-1788 (2)	75-125	27*	20	27,400		28,100		2	20
Boron	96	92	84-115	2	20	9.74		9.76		0 (1)	20
Calcium	-52 (2)	77 (2)	75-125	4	20	12,800		11,100		14	20
Iron	2334 (2)	-2778 (2)	75-125	20	20	25,600		27,400		7	20
Lithium	103	91	82-114	8	20	26.0		27.0		4	20
Magnesium	254 (2)	-105 (2)	75-125	14	20	5,070		5,250		4	20
Manganese	42 (2)	52 (2)	75-125	2	20	282		320		13	20
Phosphorus	87	98	75-125	5	20	168		165		2	20
Potassium	151*	80	75-125	18	20	2,640		2,740		3	20
Sodium	100	93	75-125	6	20	75.4	J	75.9	J	1 (1)	20
Strontium	99	96	75-115	1	20	19.6		19.5		0	20
Tin	81	80	80-110	1	20	2.73	J	2.88	J	5 (1)	20
Titanium	218 (2)	155 (2)	75-125	5	20	1,070		1,110		4	20
Zirconium	96	88	81-110	6	20	5.00		6.41		25* (1)	20
Batch number: 112975711003	Sample number(s): 6446809-6446813,6446816-6446822 UNSPK: 6446810 BKG: 6446810										
Mercury	95	102	65-135	9	20	0.0150	J	0.0204	J	30* (1)	20
Batch number: 11298621202A	Sample number(s): 6446809-6446811,6446813,6446816-6446822 UNSPK: 6446810 BKG: 6446810										
7a Perchlorate EPA 314.0	107		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11305243201A	Sample number(s): 6446809-6446811,6446813,6446816-6446822 UNSPK: 6446810 BKG: 6446810										
3a Cr VI by EPA 7199	94		75-125			0.21	J	0.56	J	90* (1)	20
Batch number: 11306621203B	Sample number(s): 6446809-6446810,6446813,6446816-6446822 UNSPK: 6446810 BKG: 6446810										
11a Anions by 300.0 - Fluoride	76*		80-120			1.3		1.3		0 (1)	20
Batch number: 11313621201A	Sample number(s): 6446811 UNSPK: P462616 BKG: P462616										
11a Anions by 300.0 - Fluoride	88		80-120			0.80	U	1.3		200* (1)	20
Batch number: 11300039403B	Sample number(s): 6446809-6446810,6446813,6446816-6446822 BKG: 6446810										
17a pH by 9045C						7.87		7.91		1	3
Batch number: 11305162401A	Sample number(s): 6446809-6446814,6446816-6446822 BKG: 6446810										
28a Moisture Content by 160.3						10.5		10.7		1	20
Moisture Content by 160.3						10.5		10.7		1	20
Moisture Content by 160.3						10.5		10.7		1	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272728
Reported: 11/18/11 at 11:59 AM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11297SLF026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6446809	94	97	80	89	92	98
6446810	89	93	82	88	88	98
6446811	94	97	83	91	91	96
6446812	94	97	87	91	91	97
6446816	91	95	85	89	90	98
6446817	78	80	71	74	75	84
6446818	90	94	80	86	88	96
6446819	91	94	81	89	91	94
6446820	90	92	81	84	86	95
6446821	93	95	84	86	88	94
6446822	92	94	85	88	89	96
Blank	92	97	83	92	93	103
LCS	95	99	88	92	93	99
MS	94	97	83	91	91	96
MSD	94	97	87	91	91	97
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11299SLF026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6446809	91	87	94
6446810	84	80	87
6446811	88	84	89
6446812	94	87	91
6446816	91	86	95
6446817	85	84	90
6446818	91	86	91
6446819	91	87	91
6446820	92	87	90
6446821	91	88	94
6446822	88	84	88
Blank	97	95	102
LCS	92	87	90
MS	88	84	89
MSD	94	87	91
Limits:	67-129	63-129	51-141

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 112990025A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6446809	106	111
6446810	112	124*
6446811	108	109
6446812	104	118
6446814	120	141*
6446815	98	113

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272728
Reported: 11/18/11 at 11:59 AM

Surrogate Quality Control

6446816	108	124*
6446817	217*	247*
6446818	109	120
6446819	96	117
6446820	102	133*
6446821	99	113
6446822	116	130*
Blank	103	124*
LCS	136	163*
LCSD	101	113
MS	108	109
MSD	104	118
Limits:	53-139	45-120

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acct# 13013 Cap# 1272728 Sample# 6446809-24

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 8 (SA8) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-017-SA8S-SB-4.0-5.0	10.21.11	1113	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-018-SA8S-SB-4.0-5.0MS	10.21.11	1023	SOIL	NONE	6-16 oz Jars	X	X	X	X	X	X	X	X													MS.MSD
SL-018-SA8S-SB-7.5-8.5	10.21.11	0930	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
DUP02-SA8S-QC-102111	10.21.11	1015	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-065-SA7-SB-2.0-3.0	10.21.11	1100	SOIL	NONE	1-SS Sleeve			X	X																	
SL-065-SA7-SB-2.0-3.0	10.21.11	1100	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X													
SL-014-SA8S-SB-4.0-5.0	10.21.11	1431	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-014-SA8S-SB-7.0-8.0	10.21.11	1422	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-015-SA8S-SB-4.0-5.0	10.21.11	1523	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-015-SA8S-SB-9.0-10.0	10.21.11	1519	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
EB-SA8S-SB-102111	10.21.11	1430	SOIL	NONE	1-1 L Amber														X							HGL ASTM II WATER-DPTcrew
TB-1012111	10.21.11	0800	WATER	NONE	2-40 mL Vials										X											

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/20/2011 / 1630	10/22/11 0930	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8767 9858 7592,7630	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 08, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/22/2011
Group Number: 1272729
SDG: DX152
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-017-SA8S-SB-4.0-5.0 Soil	6446825
SL-018-SA8S-SB-4.0-5.0 Soil	6446826
SL-018-SA8S-SB-4.0-5.0MS Soil	6446827
SL-018-SA8S-SB-4.0-5.0MSD Soil	6446828
SL-018-SA8S-SB-7.5-8.5 Soil	6446829
DUP02-SA8S-QC-102111 Soil	6446830
SL-065-SA7-SB-2.0-3.0 Soil	6446831
SL-014-SA8S-SB-4.0-5.0 Soil	6446832
SL-014-SA8S-SB-7.0-8.0 Soil	6446833
SL-015-SA8S-SB-4.0-5.0 Soil	6446834
SL-015-SA8S-SB-9.0-10.0 Soil	6446835

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-017-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SB-4.0-5.0

LLI Sample # SW 6446825
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:13

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5201 SDG#: DX152-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-017-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SB-4.0-5.0

LLI Sample # SW 6446825
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:13

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5201 SDG#: DX152-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0210	U	0.0210	1.06	1
11031	12378-PeCDD	40321-76-4	0.0221	U	0.0221	5.31	1
11031	123478-HxCDD	39227-28-6	0.0181	U	0.0181	5.31	1
11031	123678-HxCDD	57653-85-7	0.0497	JBQ	0.0184	5.31	1
11031	123789-HxCDD	19408-74-3	0.0529	JBQ	0.0183	5.31	1
11031	1234678-HpCDD	35822-46-9	0.257	JB	0.0249	5.31	1
11031	OCDD	3268-87-9	0.605	JB	0.0304	10.6	1
11031	2378-TCDF	51207-31-9	0.0192	U	0.0192	1.06	1
11031	12378-PeCDF	57117-41-6	0.0279	JB	0.0141	5.31	1
11031	23478-PeCDF	57117-31-4	0.0470	JB	0.0144	5.31	1
11031	123478-HxCDF	70648-26-9	0.0490	JBQ	0.0154	5.31	1
11031	123678-HxCDF	57117-44-9	0.0296	JBQ	0.0117	5.31	1
11031	123789-HxCDF	72918-21-9	0.0615	JBQ	0.0122	5.31	1
11031	234678-HxCDF	60851-34-5	0.0396	JB	0.0108	5.31	1
11031	1234678-HpCDF	67562-39-4	0.140	JB	0.0111	5.31	1
11031	1234789-HpCDF	55673-89-7	0.0257	JBQ	0.0146	5.31	1
11031	OCDF	39001-02-0	0.149	JB	0.0234	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	94	23 - 140
13C12-OCDD	95	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	73	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-017-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SB-4.0-5.0

LLI Sample # SW 6446825
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:13

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5201 SDG#: DX152-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-017-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-017-SA8S-SB-4.0-5.0

LLI Sample # SW 6446825
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:13

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5201 SDG#: DX152-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301002	10/31/2011 02:47	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301002	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-018-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446826
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX152-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-018-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446826
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX152-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0263	U	0.0263	1.11	1
11031	12378-PeCDD	40321-76-4	0.0308	U	0.0308	5.56	1
11031	123478-HxCDD	39227-28-6	0.0229	JBQ	0.0184	5.56	1
11031	123678-HxCDD	57653-85-7	0.0187	U	0.0187	5.56	1
11031	123789-HxCDD	19408-74-3	0.0178	U	0.0178	5.56	1
11031	1234678-HpCDD	35822-46-9	0.226	JBQ	0.0219	5.56	1
11031	OCDD	3268-87-9	1.04	JB	0.0330	11.1	1
11031	2378-TCDF	51207-31-9	0.0257	U	0.0257	1.11	1
11031	12378-PeCDF	57117-41-6	0.0171	U	0.0171	5.56	1
11031	23478-PeCDF	57117-31-4	0.0480	JBQ	0.0179	5.56	1
11031	123478-HxCDF	70648-26-9	0.0341	JBQ	0.0161	5.56	1
11031	123678-HxCDF	57117-44-9	0.0279	JB	0.0141	5.56	1
11031	123789-HxCDF	72918-21-9	0.0151	U	0.0151	5.56	1
11031	234678-HxCDF	60851-34-5	0.0260	JBQ	0.0124	5.56	1
11031	1234678-HpCDF	67562-39-4	0.142	JB	0.0104	5.56	1
11031	1234789-HpCDF	55673-89-7	0.0336	JBQ	0.0143	5.56	1
11031	OCDF	39001-02-0	0.173	JBQ	0.0280	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	59	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	70	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-018-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446826
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX152-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-018-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446826
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX152-02BKG

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301002	10/31/2011 03:44	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301002	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-018-SA8S-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446827
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX152-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-018-SA8S-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446827
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX152-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.1	B	0.0299	1.09	1
11031	12378-PeCDD	40321-76-4	98.6	B	0.0431	5.45	1
11031	123478-HxCDD	39227-28-6	97.6	B	0.0332	5.45	1
11031	123678-HxCDD	57653-85-7	97.4	B	0.0341	5.45	1
11031	123789-HxCDD	19408-74-3	108	B	0.0333	5.45	1
11031	1234678-HpCDD	35822-46-9	105	B	0.0644	5.45	1
11031	OCDD	3268-87-9	201	B	0.0361	10.9	1
11031	2378-TCDF	51207-31-9	20.3	B	0.0494	1.09	1
11031	12378-PeCDF	57117-41-6	99.9	B	0.0344	5.45	1
11031	23478-PeCDF	57117-31-4	95.1	B	0.0334	5.45	1
11031	123478-HxCDF	70648-26-9	101	B	0.0645	5.45	1
11031	123678-HxCDF	57117-44-9	101	B	0.0542	5.45	1
11031	123789-HxCDF	72918-21-9	105	B	0.0600	5.45	1
11031	234678-HxCDF	60851-34-5	96.6	B	0.0512	5.45	1
11031	1234678-HpCDF	67562-39-4	92.7	B	0.0413	5.45	1
11031	1234789-HpCDF	55673-89-7	102	B	0.0577	5.45	1
11031	OCDF	39001-02-0	203	B	0.0391	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	70	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-018-SA8S-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446827
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX152-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-018-SA8S-SB-4.0-5.0MS Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446827
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX152-02MS

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301002	10/31/2011 04:40	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301002	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-018-SA8S-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446828
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX152-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-018-SA8S-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446828
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX152-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	20.7	B	0.0442	1.10	1
11031	12378-PeCDD	40321-76-4	103	B	0.0403	5.49	1
11031	123478-HxCDD	39227-28-6	102	B	0.0534	5.49	1
11031	123678-HxCDD	57653-85-7	99.5	B	0.0544	5.49	1
11031	123789-HxCDD	19408-74-3	106	B	0.0495	5.49	1
11031	1234678-HpCDD	35822-46-9	108	B	0.0684	5.49	1
11031	OCDD	3268-87-9	196	B	0.0422	11.0	1
11031	2378-TCDF	51207-31-9	20.5	B	0.0526	1.10	1
11031	12378-PeCDF	57117-41-6	98.7	B	0.0372	5.49	1
11031	23478-PeCDF	57117-31-4	95.5	B	0.0368	5.49	1
11031	123478-HxCDF	70648-26-9	100	B	0.0759	5.49	1
11031	123678-HxCDF	57117-44-9	102	B	0.0630	5.49	1
11031	123789-HxCDF	72918-21-9	102	B	0.0523	5.49	1
11031	234678-HxCDF	60851-34-5	99.7	B	0.0456	5.49	1
11031	1234678-HpCDF	67562-39-4	93.4	B	0.0589	5.49	1
11031	1234789-HpCDF	55673-89-7	98.6	B	0.0668	5.49	1
11031	OCDF	39001-02-0	205	B	0.0493	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	93	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	48	26 - 152
13C12-123678-HxCDF	54	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	70	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-018-SA8S-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446828
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX152-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-018-SA8S-SB-4.0-5.0MSD Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-4.0-5.0

LLI Sample # SW 6446828
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5202 SDG#: DX152-02MSD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301002	10/31/2011 05:37	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301002	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-018-SA8S-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-7.5-8.5

LLI Sample # SW 6446829
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 09:30

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5203 SDG#: DX152-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-018-SA8S-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-7.5-8.5

LLI Sample # SW 6446829
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 09:30

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X5203 SDG#: DX152-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0275 U	0.0275	1.07	1
11031	12378-PeCDD	40321-76-4	0.0308 JBQ	0.0275	5.34	1
11031	123478-HxCDD	39227-28-6	0.0541 JBQ	0.0220	5.34	1
11031	123678-HxCDD	57653-85-7	0.0639 JB	0.0227	5.34	1
11031	123789-HxCDD	19408-74-3	0.0335 JBQ	0.0208	5.34	1
11031	1234678-HpCDD	35822-46-9	0.184 JBQ	0.0256	5.34	1
11031	OCDD	3268-87-9	0.489 JB	0.0336	10.7	1
11031	2378-TCDF	51207-31-9	0.0341 U	0.0341	1.07	1
11031	12378-PeCDF	57117-41-6	0.0509 JBQ	0.0174	5.34	1
11031	23478-PeCDF	57117-31-4	0.0758 JB	0.0176	5.34	1
11031	123478-HxCDF	70648-26-9	0.0575 JBQ	0.0207	5.34	1
11031	123678-HxCDF	57117-44-9	0.0452 JBQ	0.0162	5.34	1
11031	123789-HxCDF	72918-21-9	0.0557 JBQ	0.0173	5.34	1
11031	234678-HxCDF	60851-34-5	0.0667 JB	0.0143	5.34	1
11031	1234678-HpCDF	67562-39-4	0.136 JB	0.0114	5.34	1
11031	1234789-HpCDF	55673-89-7	0.0488 JBQ	0.0176	5.34	1
11031	OCDF	39001-02-0	0.246 JBQ	0.0323	10.7	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	93	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	68	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-018-SA8S-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-7.5-8.5

LLI Sample # SW 6446829
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 09:30

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5203 SDG#: DX152-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

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Analysis Report

Sample Description: **SL-018-SA8S-SB-7.5-8.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-018-SA8S-SB-7.5-8.5

LLI Sample # SW 6446829
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 09:30

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5203 SDG#: DX152-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301002	10/31/2011 06:33	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301002	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP02-SA8S-QC-102111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S-QC-102111

LLI Sample # SW 6446830
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:15

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5204 SDG#: DX152-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP02-SA8S-QC-102111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S-QC-102111

LLI Sample # SW 6446830
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:15

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5204 SDG#: DX152-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0243 U	0.0243	1.10	1
11031	12378-PeCDD	40321-76-4	0.0588 JB	0.0299	5.48	1
11031	123478-HxCDD	39227-28-6	0.0401 JBQ	0.0207	5.48	1
11031	123678-HxCDD	57653-85-7	0.0562 JBQ	0.0210	5.48	1
11031	123789-HxCDD	19408-74-3	0.0766 JBQ	0.0189	5.48	1
11031	1234678-HpCDD	35822-46-9	0.211 JB	0.0230	5.48	1
11031	OCDD	3268-87-9	0.563 JB	0.0341	11.0	1
11031	2378-TCDF	51207-31-9	0.0236 U	0.0236	1.10	1
11031	12378-PeCDF	57117-41-6	0.0565 JBQ	0.0166	5.48	1
11031	23478-PeCDF	57117-31-4	0.0699 JBQ	0.0180	5.48	1
11031	123478-HxCDF	70648-26-9	0.0763 JBQ	0.0197	5.48	1
11031	123678-HxCDF	57117-44-9	0.0378 JBQ	0.0164	5.48	1
11031	123789-HxCDF	72918-21-9	0.0635 JBQ	0.0174	5.48	1
11031	234678-HxCDF	60851-34-5	0.0628 JBQ	0.0151	5.48	1
11031	1234678-HpCDF	67562-39-4	0.135 JBQ	0.0116	5.48	1
11031	1234789-HpCDF	55673-89-7	0.0401 JBQ	0.0155	5.48	1
11031	OCDF	39001-02-0	0.200 JB	0.0294	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	63	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **DUP02-SA8S-QC-102111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S-QC-102111

LLI Sample # SW 6446830
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:15

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5204 SDG#: DX152-04FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **DUP02-SA8S-QC-102111 Soil**
SSFL Area IV Collocated Soil Sampling
DUP02-SA8S-QC-102111

LLI Sample # SW 6446830
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 10:15

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5204 SDG#: DX152-04FD

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301002	10/31/2011 07:30	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301002	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-065-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-065-SA7-SB-2.0-3.0

LLI Sample # SW 6446831
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:00

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5205 SDG#: DX152-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-065-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-065-SA7-SB-2.0-3.0

LLI Sample # SW 6446831
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:00

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5205 SDG#: DX152-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0244	U	0.0244	0.994	1
11031	12378-PeCDD	40321-76-4	0.109	JB	0.0250	4.97	1
11031	123478-HxCDD	39227-28-6	0.102	JBQ	0.0305	4.97	1
11031	123678-HxCDD	57653-85-7	0.199	JBQ	0.0308	4.97	1
11031	123789-HxCDD	19408-74-3	0.162	JBQ	0.0293	4.97	1
11031	1234678-HpCDD	35822-46-9	4.42	JB	0.0386	4.97	1
11031	OCDD	3268-87-9	42.6	B	0.0292	9.94	1
11031	2378-TCDF	51207-31-9	0.0253	U	0.0253	0.994	1
11031	12378-PeCDF	57117-41-6	0.173	JB	0.0249	4.97	1
11031	23478-PeCDF	57117-31-4	0.178	JB	0.0253	4.97	1
11031	123478-HxCDF	70648-26-9	1.17	JB	0.0413	4.97	1
11031	123678-HxCDF	57117-44-9	0.160	JBQ	0.0358	4.97	1
11031	123789-HxCDF	72918-21-9	0.0732	JB	0.0411	4.97	1
11031	234678-HxCDF	60851-34-5	0.127	JBQ	0.0343	4.97	1
11031	1234678-HpCDF	67562-39-4	1.27	JB	0.0146	4.97	1
11031	1234789-HpCDF	55673-89-7	0.116	JBQ	0.0231	4.97	1
11031	OCDF	39001-02-0	3.79	JB	0.0335	9.94	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	88	25 - 164
13C12-12378-PeCDD	95	25 - 181
13C12-123478-HxCDD	93	32 - 141
13C12-123678-HxCDD	96	28 - 130
13C12-123789-HxCDD	99	28 - 130
13C12-1234678-HpCDD	108	23 - 140
13C12-OCDD	105	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	110	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	73	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-065-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-065-SA7-SB-2.0-3.0

LLI Sample # SW 6446831
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:00

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5205 SDG#: DX152-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-065-SA7-SB-2.0-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-065-SA7-SB-2.0-3.0

LLI Sample # SW 6446831
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 11:00

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5205 SDG#: DX152-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301002	10/31/2011 08:27	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301002	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-014-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-4.0-5.0

LLI Sample # SW 6446832
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:31

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5206 SDG#: DX152-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-014-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-4.0-5.0

LLI Sample # SW 6446832
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:31

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5206 SDG#: DX152-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0364 JBQ	0.0269	1.06	1
11031	12378-PeCDD	40321-76-4	0.225 JB	0.0282	5.28	1
11031	123478-HxCDD	39227-28-6	0.112 JB	0.0208	5.28	1
11031	123678-HxCDD	57653-85-7	0.112 JBQ	0.0216	5.28	1
11031	123789-HxCDD	19408-74-3	0.0927 JBQ	0.0200	5.28	1
11031	1234678-HpCDD	35822-46-9	0.294 JB	0.0262	5.28	1
11031	OCDD	3268-87-9	0.521 JB	0.0294	10.6	1
11031	2378-TCDF	51207-31-9	0.0466 JBQ	0.0247	1.06	1
11031	12378-PeCDF	57117-41-6	0.177 JB	0.0161	5.28	1
11031	23478-PeCDF	57117-31-4	0.192 JB	0.0167	5.28	1
11031	123478-HxCDF	70648-26-9	0.153 JBQ	0.0198	5.28	1
11031	123678-HxCDF	57117-44-9	0.146 JB	0.0164	5.28	1
11031	123789-HxCDF	72918-21-9	0.101 JBQ	0.0198	5.28	1
11031	234678-HxCDF	60851-34-5	0.108 JB	0.0165	5.28	1
11031	1234678-HpCDF	67562-39-4	0.142 JBQ	0.00947	5.28	1
11031	1234789-HpCDF	55673-89-7	0.0817 JB	0.0144	5.28	1
11031	OCDF	39001-02-0	0.174 JB	0.0280	10.6	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	64	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

Sample Description: **SL-014-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-4.0-5.0

LLI Sample # SW 6446832
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:31

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5206 SDG#: DX152-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-014-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-4.0-5.0

LLI Sample # SW 6446832
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:31

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5206 SDG#: DX152-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301002	10/31/2011 09:23	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301002	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-014-SA8S-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-7.0-8.0

LLI Sample # SW 6446833
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:22

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5207 SDG#: DX152-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-014-SA8S-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-7.0-8.0

LLI Sample # SW 6446833
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:22

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5207 SDG#: DX152-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.137	JBQ	0.0205	1.08	1
11031	12378-PeCDD	40321-76-4	0.312	JB	0.0275	5.40	1
11031	123478-HxCDD	39227-28-6	0.156	JB	0.0224	5.40	1
11031	123678-HxCDD	57653-85-7	0.135	JB	0.0216	5.40	1
11031	123789-HxCDD	19408-74-3	0.162	JB	0.0206	5.40	1
11031	1234678-HpCDD	35822-46-9	0.334	JB	0.0238	5.40	1
11031	OCDD	3268-87-9	0.627	JB	0.0315	10.8	1
11031	2378-TCDF	51207-31-9	0.137	JB	0.0200	1.08	1
11031	12378-PeCDF	57117-41-6	0.391	JB	0.0157	5.40	1
11031	23478-PeCDF	57117-31-4	0.353	JB	0.0165	5.40	1
11031	123478-HxCDF	70648-26-9	0.285	JBQ	0.0346	5.40	1
11031	123678-HxCDF	57117-44-9	0.236	JB	0.0257	5.40	1
11031	123789-HxCDF	72918-21-9	0.205	JBQ	0.0244	5.40	1
11031	234678-HxCDF	60851-34-5	0.156	JB	0.0195	5.40	1
11031	1234678-HpCDF	67562-39-4	0.237	JB	0.0139	5.40	1
11031	1234789-HpCDF	55673-89-7	0.164	JB	0.0173	5.40	1
11031	OCDF	39001-02-0	0.308	JBQ	0.0276	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	37	26 - 152
13C12-123678-HxCDF	49	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	64	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	59	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

Sample Description: **SL-014-SA8S-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-7.0-8.0

LLI Sample # SW 6446833
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:22

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5207 SDG#: DX152-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-014-SA8S-SB-7.0-8.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-014-SA8S-SB-7.0-8.0

LLI Sample # SW 6446833
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 14:22

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5207 SDG#: DX152-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301002	10/31/2011 13:23	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301002	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-015-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-4.0-5.0

LLI Sample # SW 6446834
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5208 SDG#: DX152-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	7.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-015-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-4.0-5.0

LLI Sample # SW 6446834
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5208 SDG#: DX152-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		**ng/kg**	**ng/kg**	**ng/kg**	
11031	2378-TCDD	1746-01-6	0.0439 JQ	0.0251	1.08	1
11031	12378-PeCDD	40321-76-4	0.142 JQ	0.0260	5.39	1
11031	123478-HxCDD	39227-28-6	0.0475 JB	0.0213	5.39	1
11031	123678-HxCDD	57653-85-7	0.0751 JBQ	0.0222	5.39	1
11031	123789-HxCDD	19408-74-3	0.0631 JBQ	0.0212	5.39	1
11031	1234678-HpCDD	35822-46-9	0.297 JB	0.0223	5.39	1
11031	OCDD	3268-87-9	0.704 JB	0.0277	10.8	1
11031	2378-TCDF	51207-31-9	0.0507 JQ	0.0194	1.08	1
11031	12378-PeCDF	57117-41-6	0.130 JBQ	0.0124	5.39	1
11031	23478-PeCDF	57117-31-4	0.132 JBQ	0.0128	5.39	1
11031	123478-HxCDF	70648-26-9	0.0805 JB	0.0130	5.39	1
11031	123678-HxCDF	57117-44-9	0.0425 JB	0.0111	5.39	1
11031	123789-HxCDF	72918-21-9	0.0553 JBQ	0.0158	5.39	1
11031	234678-HxCDF	60851-34-5	0.0793 JB	0.0123	5.39	1
11031	1234678-HpCDF	67562-39-4	0.0947 JB	0.00898	5.39	1
11031	1234789-HpCDF	55673-89-7	0.0393 J	0.0194	5.39	1
11031	OCDF	39001-02-0	0.233 JBQ	0.0421	10.8	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	90	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	86	24 - 169
13C12-12378-PeCDF	97	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	93	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	118	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	58	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-015-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-4.0-5.0

LLI Sample # SW 6446834
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5208 SDG#: DX152-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-015-SA8S-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-4.0-5.0

LLI Sample # SW 6446834
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:23

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5208 SDG#: DX152-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11307002	11/05/2011 23:05	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	11307002	11/03/2011 09:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-015-SA8S-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-9.0-10.0

LLI Sample # SW 6446835
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:19

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5209 SDG#: DX152-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-015-SA8S-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-9.0-10.0

LLI Sample # SW 6446835
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:19

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5209 SDG#: DX152-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0198	U	0.0198	1.10	1
11031	12378-PeCDD	40321-76-4	0.0958	JBQ	0.0247	5.48	1
11031	123478-HxCDD	39227-28-6	0.0461	JBQ	0.0175	5.48	1
11031	123678-HxCDD	57653-85-7	0.0523	JBQ	0.0178	5.48	1
11031	123789-HxCDD	19408-74-3	0.0465	JB	0.0182	5.48	1
11031	1234678-HpCDD	35822-46-9	0.248	JBQ	0.0217	5.48	1
11031	OCDD	3268-87-9	0.509	JB	0.0258	11.0	1
11031	2378-TCDF	51207-31-9	0.0269	JB	0.0178	1.10	1
11031	12378-PeCDF	57117-41-6	0.106	JB	0.0137	5.48	1
11031	23478-PeCDF	57117-31-4	0.114	JBQ	0.0142	5.48	1
11031	123478-HxCDF	70648-26-9	0.0940	JBQ	0.0145	5.48	1
11031	123678-HxCDF	57117-44-9	0.0644	JBQ	0.0131	5.48	1
11031	123789-HxCDF	72918-21-9	0.0482	JBQ	0.0151	5.48	1
11031	234678-HxCDF	60851-34-5	0.0588	JB	0.0121	5.48	1
11031	1234678-HpCDF	67562-39-4	0.106	JB	0.00919	5.48	1
11031	1234789-HpCDF	55673-89-7	0.0557	JBQ	0.0137	5.48	1
11031	OCDF	39001-02-0	0.158	JBQ	0.0247	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	64	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-015-SA8S-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-9.0-10.0

LLI Sample # SW 6446835
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:19

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5209 SDG#: DX152-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-015-SA8S-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-015-SA8S-SB-9.0-10.0

LLI Sample # SW 6446835
LLI Group # 1272729
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/21/2011 15:19

Submitted: 10/22/2011 09:30
Reported: 11/08/2011 23:08

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5209 SDG#: DX152-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11301002	10/31/2011 15:16	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11301002	10/28/2011 10:00	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11305162401A	11/01/2011 21:43	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272729
Reported: 11/08/11 at 11:08 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11305162401A	Sample number(s): 6446825-6446835									
Moisture Content by 160.3						100		80-120		

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11301002	Sample number(s): 6446825-6446833,6446835									
2378-TCDD	0.0738	J	0.0256	1.00	ng/kg	94		67-158		
12378-PeCDD	0.349	J	0.0297	5.00	ng/kg	91		70-142		
123478-HxCDD	0.147	J	0.0239	5.00	ng/kg	88		70-164		
123678-HxCDD	0.124	J	0.0230	5.00	ng/kg	91		76-134		
123789-HxCDD	0.145	J	0.0233	5.00	ng/kg	93		64-162		
1234678-HpCDD	0.286	J	0.0210	5.00	ng/kg	93		70-140		
OCDD	0.418	J	0.0269	10.0	ng/kg	91		78-144		
2378-TCDF	0.0617	J	0.0236	1.00	ng/kg	93		75-158		
12378-PeCDF	0.328	J	0.0165	5.00	ng/kg	88		80-134		
23478-PeCDF	0.295	J	0.0166	5.00	ng/kg	86		68-160		
123478-HxCDF	0.197	J	0.0257	5.00	ng/kg	90		72-134		
123678-HxCDF	0.216	J	0.0212	5.00	ng/kg	90		84-130		
123789-HxCDF	0.174	J	0.0210	5.00	ng/kg	94		78-130		
234678-HxCDF	0.159	J	0.0196	5.00	ng/kg	89		70-156		
1234678-HpCDF	0.172	J	0.0113	5.00	ng/kg	85		82-122		
1234789-HpCDF	0.0917	J	0.0149	5.00	ng/kg	88		78-138		
OCDF	0.220	J	0.0265	10.0	ng/kg	91		63-170		
Batch number: 11307002	Sample number(s): 6446834									
2378-TCDD	0.0250	U	0.0250	1.00	ng/kg	110		67-158		
12378-PeCDD	0.0263	U	0.0263	5.00	ng/kg	108		70-142		
123478-HxCDD	0.0229	J	0.0182	5.00	ng/kg	103		70-164		
123678-HxCDD	0.0323	J	0.0182	5.00	ng/kg	99		76-134		
123789-HxCDD	0.0212	J	0.0186	5.00	ng/kg	105		64-162		
1234678-HpCDD	0.268	J	0.0221	5.00	ng/kg	102		70-140		
OCDD	0.412	J	0.0259	10.0	ng/kg	98		78-144		
2378-TCDF	0.0197	U	0.0197	1.00	ng/kg	108		75-158		
12378-PeCDF	0.0304	J	0.0104	5.00	ng/kg	105		80-134		
23478-PeCDF	0.0732	J	0.0110	5.00	ng/kg	99		68-160		
123478-HxCDF	0.0245	J	0.0131	5.00	ng/kg	100		72-134		
123678-HxCDF	0.0169	J	0.0110	5.00	ng/kg	99		84-130		
123789-HxCDF	0.0396	J	0.0154	5.00	ng/kg	101		78-130		
234678-HxCDF	0.0200	J	0.0127	5.00	ng/kg	100		70-156		
1234678-HpCDF	0.0783	J	0.00700	5.00	ng/kg	93		82-122		
1234789-HpCDF	0.0162	U	0.0162	5.00	ng/kg	101		78-138		
OCDF	0.185	J	0.0413	10.0	ng/kg	101		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272729
Reported: 11/08/11 at 11:08 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11305162401A	Sample number(s): 6446825-6446835					BKG: P446810			
Moisture Content by 160.3						10.5	10.7	1	20
Batch number: 11301002	Sample number(s): 6446825-6446833,6446835 UNSPK: 6446826								
2378-TCDD	97	94	67-158	2	25				
12378-PeCDD	91	93	70-142	4	25				
123478-HxCDD	90	92	70-164	4	25				
123678-HxCDD	89	91	76-134	2	25				
123789-HxCDD	99	96	64-162	2	25				
1234678-HpCDD	96	98	70-140	2	25				
OCDD	92	89	78-144	2	25				
2378-TCDF	93	93	75-158	1	25				
12378-PeCDF	92	90	80-134	1	25				
23478-PeCDF	87	87	68-160	0	25				
123478-HxCDF	93	91	72-134	1	25				
123678-HxCDF	93	93	84-130	1	25				
123789-HxCDF	96	93	78-130	3	25				
234678-HxCDF	89	91	70-156	3	25				
1234678-HpCDF	85	85	82-122	1	25				
1234789-HpCDF	93	90	78-138	3	25				
OCDF	93	93	63-170	1	25				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11301002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6446825	82	71	52	64	74	70
6446826	76	69	59	63	72	68
6446827	74	69	58	65	72	68
6446828	74	67	48	54	74	76
6446829	79	68	52	63	71	67
6446830	74	64	54	62	67	64
6446831	88	83	72	82	83	81
6446832	74	69	53	63	65	60
6446833	76	66	37	49	67	59
6446835	76	71	63	67	72	68
Blank	73	71	53	62	66	67
MS	74	69	58	65	72	68
MSD	74	67	48	54	74	76
OPR	83	72	42	55	73	73
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272729
Reported: 11/08/11 at 11:08 PM

Surrogate Quality Control

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6446825	81	73	73	84	85	84
6446826	82	71	70	81	78	81
6446827	84	70	70	82	80	78
6446828	71	74	70	77	80	78
6446829	87	71	68	80	84	83
6446830	80	69	63	76	78	77
6446831	110	80	73	95	93	96
6446832	84	64	64	83	75	73
6446833	64	61	59	77	74	76
6446835	86	67	64	83	78	79
Blank	80	69	66	79	77	77
MS	84	70	70	82	80	78
MSD	71	74	70	77	80	78
OPR	71	74	69	88	83	79
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6446825	87	94	95	73	79
6446826	83	91	92	67	75
6446827	81	90	91	66	75
6446828	83	88	93	64	74
6446829	86	92	93	65	76
6446830	79	83	83	65	74
6446831	99	108	105	76	93
6446832	79	86	90	64	78
6446833	81	79	81	65	75
6446835	80	87	88	68	78
Blank	79	86	87	60	73
MS	81	90	91	66	75
MSD	83	88	93	64	74
OPR	90	96	94	67	81
Limits:	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11307002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6446834	84	82	79	93	82	73
Blank	65	65	64	76	67	64
OPR	71	66	63	79	67	58
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6446834	118	67	58	85	89	90
Blank	102	55	46	69	74	78
OPR	107	50	42	73	79	80
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1272729
Reported: 11/08/11 at 11:08 PM

Surrogate Quality Control

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6446834	87	91	90	86	97
Blank	75	78	75	64	75
OPR	81	81	78	68	80
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1272729 Sample# 0446825-35

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	Other Instructions and Notes
SL-017-SA8S-SB-4.0-5.0	10.21.11	1113	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-018-SA8S-SB-4.0-5.0MS	10.21.11	1023	SOIL	NONE	6-16 oz Jars	X	X	X	X	X	X	X	X													MS.MSD
SL-018-SA8S-SB-7.5-8.5	10.21.11	0930	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
DUP02-SA8S-QC-102111	10.21.11	1015	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-065-SA7-SB-2.0-3.0	10.21.11	1100	SOIL	NONE	1-SS Sleeve			X	X																	
SL-065-SA7-SB-2.0-3.0	10.21.11	1100	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X													
SL-014-SA8S-SB-4.0-5.0	10.21.11	1431	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-014-SA8S-SB-7.0-8.0	10.21.11	1422	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-015-SA8S-SB-4.0-5.0	10.21.11	1523	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
SL-015-SA8S-SB-9.0-10.0	10.21.11	1519	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X													
EB-SA8S-SB-102111	10.21.11	1430	SOIL	NONE	1-1 L Amber																					
TB-1012111	10.21.11	0800	WATER	NONE	2-40 mL Vials										X				X							HGL ASTM II WATER-DPTcrew

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/20/2011 / 1630	10/22/11 0930	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8767 9858 7592,7630	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 20, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/27/2011
Group Number: 1273439
SDG: DE274
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-033-SA7-SB-4.0-5.0 Soil	6451564
SL-033-SA7-SB-9.0-10.0 Soil	6451565
SL-038-SA7-SB-4.0-5.0 Soil	6451566
SL-082-SA7-SB-4.0-5.0 Soil	6451567
SL-086-SA7-SB-3.0-4.0 Soil	6451568
SL-157-SA7-SB-2.5-3.5 Soil	6451569
TB-102611 Water	6451570
EB-SA7-SB-102611 Water	6451571
FB-SA7-102611 Water	6451572

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Matthew E. Barton
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-033-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA7-SB

LLI Sample # SW 6451564
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/24/2011 13:40

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7401 SDG#: DE274-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	540		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	540		1
04688	Benzyl alcohol	100-51-6	180	U	180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	72	U	72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	540		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U	72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	540		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	72	U	72	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	540		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-033-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA7-SB

LLI Sample # SW 6451564
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/24/2011 13:40

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7401 SDG#: DE274-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.92	J	0.72	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8		1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8		1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8		1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8		1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8		1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-033-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA7-SB

LLI Sample # SW 6451564
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/24/2011 13:40

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7401 SDG#: DE274-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,700		6.30	20.8		1
07914	Boron	7440-42-8	4.29	J	0.375	5.21		1
01650	Calcium	7440-70-2	2,720		2.60	20.8		1
01654	Iron	7439-89-6	22,900		2.72	20.8		1
01656	Lithium	7439-93-2	27.5		0.65	2.1		1
01657	Magnesium	7439-95-4	5,480		0.458	10.4		1
06958	Manganese	7439-96-5	354		0.0375	0.521		1
10145	Phosphorus	7723-14-0	490		0.365	10.4		1
01662	Potassium	7440-09-7	3,960		11.8	52.1		1
01667	Sodium	7440-23-5	82.3	J	6.20	104		1
07968	Strontium	7440-24-6	17.3		0.0260	0.521		1
06969	Tin	7440-31-5	2.72	J	0.333	10.4		1
06970	Titanium	7440-32-6	1,420		0.0740	1.04		1
10146	Zirconium	7440-67-7	2.24	J	0.479	5.21		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.168	J	0.0771	0.208		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.15		0.0833	0.417		2
06126	Barium	7440-39-3	129		0.110	0.417		2
06127	Beryllium	7440-41-7	0.694		0.0167	0.104		2
06128	Cadmium	7440-43-9	0.207		0.0458	0.104		2
06131	Chromium	7440-47-3	24.8		0.125	0.417		2
06132	Cobalt	7440-48-4	8.51		0.0208	0.104		2
06133	Copper	7440-50-8	11.9		0.0833	0.417		2
06135	Lead	7439-92-1	5.66		0.0106	0.208		2
06138	Molybdenum	7439-98-7	0.616		0.0521	0.104		2
06139	Nickel	7440-02-0	16.3		0.104	0.417		2
06141	Selenium	7782-49-2	0.184	J	0.0604	0.417		2
06142	Silver	7440-22-4	0.0410	J	0.0148	0.104		2
06145	Thallium	7440-28-0	0.415		0.0313	0.104		2
06148	Vanadium	7440-62-2	50.4		0.0229	0.104		2
06149	Zinc	7440-66-6	66.3		0.583	3.13		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0072	U	0.0072	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.85	U	0.85	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7	U	9.7	32.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.46	J	0.21	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-033-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA7-SB

LLI Sample # SW 6451564
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/24/2011 13:40

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7401 SDG#: DE274-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.66	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.8	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11304SLB026	11/14/2011	09:31	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11304SLC026	11/11/2011	09:40	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11304SLC026	11/01/2011	10:15	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11304SLB026	11/01/2011	10:10	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113010003A	11/02/2011	07:51	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113010003A	10/28/2011	18:15	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	113005708002	10/31/2011	08:56	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113005708002	10/31/2011	08:56	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113005708002	10/31/2011	08:56	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	113005708002	10/31/2011	08:56	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113005708002	10/31/2011	08:56	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113005708002	10/31/2011	08:56	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113005708002	10/31/2011	08:56	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113005708002	10/31/2011	08:56	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113005708002	10/31/2011	08:56	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113005708002	10/31/2011	08:56	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113005708002	10/31/2011	08:56	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113005708002	10/31/2011	08:56	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	113005708002	10/31/2011	08:56	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113005708002	10/31/2011	08:56	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113001026002A	11/02/2011	21:58	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113001026002A	11/02/2011	21:58	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113001026002D	11/02/2011	21:58	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113001026002A	11/02/2011	21:58	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	113001026002A	11/02/2011	21:58	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-033-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA7-SB

LLI Sample # SW 6451564
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/24/2011 13:40

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7401 SDG#: DE274-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	113001026002A	11/02/2011 21:58	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113001026002A	11/02/2011 21:58	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113001026002A	11/02/2011 21:58	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113001026002A	11/02/2011 21:58	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113001026002C	11/02/2011 21:58	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113001026002A	11/02/2011 21:58	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113001026002B	11/02/2011 21:58	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113001026002A	11/02/2011 21:58	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113001026002A	11/02/2011 21:58	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113001026002A	11/02/2011 21:58	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113001026002A	11/02/2011 21:58	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113005711002	10/31/2011 09:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113005708002	10/30/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113001026002	10/30/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113005711002	10/31/2011 01:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11312621202A	11/08/2011 10:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11308621201A	11/04/2011 17:49	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11312243201A	11/09/2011 13:02	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11312621202A	11/08/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11308621201A	11/04/2011 06:50	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11311039401A	11/07/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11312243201A	11/08/2011 08:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401A	11/07/2011 22:36	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-033-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA7-SB

LLI Sample # SW 6451565
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/24/2011 14:05

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7402 SDG#: DE274-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U	18	370		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	37	U	37	180		1
04688	4-Methylphenol	106-44-5	37	U	37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	37	U	37	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-033-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA7-SB

LLI Sample # SW 6451565
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/24/2011 14:05

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7402 SDG#: DE274-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.73	U	0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U	0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U	0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U	6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U	6.6	20		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U	0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U	6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U	6.6	20		1
10138	Fluoranthene	206-44-0	0.73	U	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U	0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U	0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73	U	0.73	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	5.0		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	3.1		0.36	1.9		1
10225	PCB-1260	11096-82-5	1.7	J	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-033-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA7-SB

LLI Sample # SW 6451565
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/24/2011 14:05

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7402 SDG#: DE274-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,800		6.37	21.1		1
07914	Boron	7440-42-8	2.97	J	0.379	5.27		1
01650	Calcium	7440-70-2	2,630		2.63	21.1		1
01654	Iron	7439-89-6	21,100		2.75	21.1		1
01656	Lithium	7439-93-2	21.8		0.65	2.1		1
01657	Magnesium	7439-95-4	4,800		0.463	10.5		1
06958	Manganese	7439-96-5	310		0.0379	0.527		1
10145	Phosphorus	7723-14-0	370		0.369	10.5		1
01662	Potassium	7440-09-7	2,830		11.9	52.7		1
01667	Sodium	7440-23-5	87.9	J	6.27	105		1
07968	Strontium	7440-24-6	14.7		0.0263	0.527		1
06969	Tin	7440-31-5	2.71	J	0.337	10.5		1
06970	Titanium	7440-32-6	1,290		0.0748	1.05		1
10146	Zirconium	7440-67-7	1.92	J	0.484	5.27		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.132	J	0.0779	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.39		0.0843	0.421		2
06126	Barium	7440-39-3	90.8		0.112	0.421		2
06127	Beryllium	7440-41-7	0.684		0.0169	0.105		2
06128	Cadmium	7440-43-9	0.115		0.0463	0.105		2
06131	Chromium	7440-47-3	22.8		0.126	0.421		2
06132	Cobalt	7440-48-4	7.57		0.0211	0.105		2
06133	Copper	7440-50-8	9.75		0.0843	0.421		2
06135	Lead	7439-92-1	6.84		0.0107	0.211		2
06138	Molybdenum	7439-98-7	0.599		0.0527	0.105		2
06139	Nickel	7440-02-0	14.1		0.105	0.421		2
06141	Selenium	7782-49-2	0.187	J	0.0611	0.421		2
06142	Silver	7440-22-4	0.0285	J	0.0150	0.105		2
06145	Thallium	7440-28-0	0.303		0.0316	0.105		2
06148	Vanadium	7440-62-2	45.3		0.0232	0.105		2
06149	Zinc	7440-66-6	64.3		0.590	3.16		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0131	J	0.0075	0.106		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9	U	9.9	32.9		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.3		0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-033-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA7-SB

LLI Sample # SW 6451565
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/24/2011 14:05

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7402 SDG#: DE274-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.28	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.7	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11304SLB026	11/14/2011 10:47	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11304SLC026	11/11/2011 11:26	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11304SLC026	11/01/2011 10:15	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11304SLB026	11/01/2011 10:10	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113010003A	11/02/2011 08:10	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113010003A	10/28/2011 18:15	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	113005708002	10/31/2011 09:01	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113005708002	10/31/2011 09:01	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113005708002	10/31/2011 09:01	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	113005708002	10/31/2011 09:01	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113005708002	10/31/2011 09:01	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113005708002	10/31/2011 09:01	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113005708002	10/31/2011 09:01	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113005708002	10/31/2011 09:01	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113005708002	10/31/2011 09:01	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113005708002	10/31/2011 09:01	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113005708002	10/31/2011 09:01	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113005708002	10/31/2011 09:01	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	113005708002	10/31/2011 09:01	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113005708002	10/31/2011 09:01	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113001026002A	11/02/2011 22:23	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113001026002A	11/02/2011 22:23	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113001026002D	11/02/2011 22:23	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113001026002A	11/02/2011 22:23	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	113001026002A	11/02/2011 22:23	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-033-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA7-SB

LLI Sample # SW 6451565
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/24/2011 14:05

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7402 SDG#: DE274-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	113001026002A	11/02/2011 22:23	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113001026002A	11/02/2011 22:23	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113001026002A	11/02/2011 22:23	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113001026002A	11/02/2011 22:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113001026002C	11/02/2011 22:23	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113001026002A	11/02/2011 22:23	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113001026002B	11/02/2011 22:23	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113001026002A	11/02/2011 22:23	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113001026002A	11/02/2011 22:23	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113001026002A	11/02/2011 22:23	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113001026002A	11/02/2011 22:23	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113005711002	10/31/2011 09:08	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113005708002	10/30/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113001026002	10/30/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113005711002	10/31/2011 01:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11312621202A	11/08/2011 11:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11308621201A	11/04/2011 18:53	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11312243201A	11/09/2011 14:03	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11312621202A	11/08/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11308621201A	11/04/2011 06:50	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11311039401A	11/07/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11312243201A	11/08/2011 08:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401A	11/07/2011 22:36	Scott W Freisher	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

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Analysis Report

Sample Description: SL-038-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA7-SB

LLI Sample # SW 6451566
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/24/2011 10:55

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7403 SDG#: DE274-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U	180	550		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U	180	550		1
04688	Benzyl alcohol	100-51-6	180	U	180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180		1
04688	Carbazole	86-74-8	18	U	18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180		1
04688	4-Chloroaniline	106-47-8	73	U	73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180		1
04688	2-Chlorophenol	95-57-8	18	U	18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180		1
04688	Dibenzofuran	132-64-9	18	U	18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	550		1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	25	J	18	360		1
04688	Hexachlorobenzene	118-74-1	18	U	18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U	73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	550		1
04688	Hexachloroethane	67-72-1	18	U	18	180		1
04688	Isophorone	78-59-1	18	U	18	180		1
04688	2-Methylphenol	95-48-7	36	U	36	180		1
04688	4-Methylphenol	106-44-5	36	U	36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U	18	180		1
04688	3-Nitroaniline	99-09-2	36	U	36	180		1
04688	4-Nitroaniline	100-01-6	73	U	73	180		1
04688	Nitrobenzene	98-95-3	18	U	18	180		1
04688	2-Nitrophenol	88-75-5	18	U	18	180		1
04688	4-Nitrophenol	100-02-7	180	U	180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U	180	550		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-038-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA7-SB

LLI Sample # SW 6451566
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/24/2011 10:55

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7403 SDG#: DE274-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	18	U	18	180		1
04688	Tetralin	119-64-2	180	U	180	180		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.72	U	0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U	0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.72	U	0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.72	U	0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U	0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U	0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U	0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U	6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U	6.5	19		1
10138	Chrysene	218-01-9	0.36	U	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U	0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U	6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U	6.5	19		1
10138	Fluoranthene	206-44-0	0.72	U	0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U	0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U	0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U	0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U	0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U	0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U	0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U	6.5	19		1
10138	Phenanthrene	85-01-8	0.72	U	0.72	1.8		1
10138	Pyrene	129-00-0	0.72	U	0.72	1.8		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.3	J	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.36	U	0.36	1.9		1
10225	PCB-1232	11141-16-5	0.36	U	0.36	1.9		1
10225	PCB-1242	53469-21-9	0.36	U	0.36	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	7.3		0.36	1.9		1
10225	PCB-1260	11096-82-5	1.8	J	0.43	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-038-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA7-SB

LLI Sample # SW 6451566
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/24/2011 10:55

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7403 SDG#: DE274-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	19,200		6.48	21.4		1
07914	Boron	7440-42-8	4.05	J	0.386	5.36		1
01650	Calcium	7440-70-2	2,750		2.68	21.4		1
01654	Iron	7439-89-6	23,100		2.80	21.4		1
01656	Lithium	7439-93-2	24.7		0.66	2.1		1
01657	Magnesium	7439-95-4	4,600		0.471	10.7		1
06958	Manganese	7439-96-5	288		0.0386	0.536		1
10145	Phosphorus	7723-14-0	312		0.375	10.7		1
01662	Potassium	7440-09-7	2,290		12.1	53.6		1
01667	Sodium	7440-23-5	82.3	J	6.38	107		1
07968	Strontium	7440-24-6	18.7		0.0268	0.536		1
06969	Tin	7440-31-5	2.83	J	0.343	10.7		1
06970	Titanium	7440-32-6	1,300		0.0761	1.07		1
10146	Zirconium	7440-67-7	1.99	J	0.493	5.36		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.139	J	0.0793	0.214		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.97		0.0857	0.429		2
06126	Barium	7440-39-3	105		0.114	0.429		2
06127	Beryllium	7440-41-7	0.816		0.0171	0.107		2
06128	Cadmium	7440-43-9	0.130		0.0471	0.107		2
06131	Chromium	7440-47-3	24.6		0.129	0.429		2
06132	Cobalt	7440-48-4	7.88		0.0214	0.107		2
06133	Copper	7440-50-8	9.93		0.0857	0.429		2
06135	Lead	7439-92-1	6.78		0.0109	0.214		2
06138	Molybdenum	7439-98-7	0.673		0.0536	0.107		2
06139	Nickel	7440-02-0	15.0		0.107	0.429		2
06141	Selenium	7782-49-2	0.158	J	0.0621	0.429		2
06142	Silver	7440-22-4	0.0334	J	0.0152	0.107		2
06145	Thallium	7440-28-0	0.304		0.0321	0.107		2
06148	Vanadium	7440-62-2	49.5		0.0236	0.107		2
06149	Zinc	7440-66-6	59.9		0.600	3.21		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0099	J	0.0075	0.107		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8	U	9.8	32.8		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.69	J	0.22	1.1		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-038-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-038-SA7-SB

LLI Sample # SW 6451566
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/24/2011 10:55

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7403 SDG#: DE274-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	6.84	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	8.5	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11304SLB026	11/14/2011	11:12	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11304SLC026	11/11/2011	12:02	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11304SLC026	11/01/2011	10:15	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11304SLB026	11/01/2011	10:10	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113010003A	11/02/2011	08:29	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113010003A	10/28/2011	18:15	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	113005708002	10/31/2011	09:05	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113005708002	10/31/2011	09:05	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113005708002	10/31/2011	09:05	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	113005708002	10/31/2011	09:05	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113005708002	10/31/2011	09:05	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113005708002	10/31/2011	09:05	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113005708002	10/31/2011	09:05	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113005708002	10/31/2011	09:05	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113005708002	10/31/2011	09:05	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113005708002	10/31/2011	09:05	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113005708002	10/31/2011	09:05	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113005708002	10/31/2011	09:05	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	113005708002	10/31/2011	09:05	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113005708002	10/31/2011	09:05	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113001026002A	11/02/2011	22:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113001026002A	11/02/2011	22:26	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113001026002D	11/02/2011	22:26	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113001026002A	11/02/2011	22:26	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	113001026002A	11/02/2011	22:26	Choon Y Tian	2

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Analysis Report

Sample Description: SL-038-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA7-SB

LLI Sample # SW 6451566
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/24/2011 10:55

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7403 SDG#: DE274-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	113001026002A	11/02/2011 22:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113001026002A	11/02/2011 22:26	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113001026002A	11/02/2011 22:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113001026002A	11/02/2011 22:26	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113001026002C	11/02/2011 22:26	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113001026002A	11/02/2011 22:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113001026002B	11/02/2011 22:26	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113001026002A	11/02/2011 22:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113001026002A	11/02/2011 22:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113001026002A	11/02/2011 22:26	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113001026002A	11/02/2011 22:26	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113005711002	10/31/2011 09:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113005708002	10/30/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113001026002	10/30/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113005711002	10/31/2011 01:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11312621202A	11/08/2011 11:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11308621201A	11/04/2011 19:35	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11312243201A	11/09/2011 14:16	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11312621202A	11/08/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11308621201A	11/04/2011 06:50	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11311039401A	11/07/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11312243201A	11/08/2011 08:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401A	11/07/2011 22:36	Scott W Freisher	1

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Analysis Report

Sample Description: SL-082-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA7-SB

LLI Sample # SW 6451567
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2011 09:00

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7404 SDG#: DE274-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U	190	560		1
04688	Benzidine	92-87-5	1,300	U	1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U	190	560		1
04688	Benzyl alcohol	100-51-6	190	U	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	190		1
04688	Carbazole	86-74-8	19	U	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U	37	190		1
04688	4-Chloroaniline	106-47-8	75	U	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U	19	190		1
04688	2-Chlorophenol	95-57-8	19	U	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U	37	190		1
04688	Dibenzofuran	132-64-9	19	U	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U	37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U	37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	560		1
04688	2,4-Dinitrophenol	51-28-5	370	U	370	1,100		1
04688	2,4-Dinitrotoluene	121-14-2	37	U	37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	190		1
04688	Hexachlorobenzene	118-74-1	19	U	19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	560		1
04688	Hexachloroethane	67-72-1	19	U	19	190		1
04688	Isophorone	78-59-1	19	U	19	190		1
04688	2-Methylphenol	95-48-7	37	U	37	190		1
04688	4-Methylphenol	106-44-5	37	U	37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U	19	190		1
04688	3-Nitroaniline	99-09-2	37	U	37	190		1
04688	4-Nitroaniline	100-01-6	75	U	75	190		1
04688	Nitrobenzene	98-95-3	19	U	19	190		1
04688	2-Nitrophenol	88-75-5	19	U	19	190		1
04688	4-Nitrophenol	100-02-7	190	U	190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U	190	560		1
04688	Phenol	108-95-2	19	U	19	190		1

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Sample Description: SL-082-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-082-SA7-SB

LLI Sample # SW 6451567
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2011 09:00

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7404 SDG#: DE274-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	190	U	190	190		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	19	U	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U	37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U	37	190		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.75	U	0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U	0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U	0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U	6.7	20		1
10138	Chrysene	218-01-9	0.37	U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U	6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U	6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U	6.7	20		1
10138	Fluoranthene	206-44-0	0.75	U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75	U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75	U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75	U	0.75	1.9		1
Perchlorate	**SW-846 6850 1/2007**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.6		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.37	U	0.37	1.9		1
10225	PCB-1232	11141-16-5	0.37	U	0.37	1.9		1
10225	PCB-1242	53469-21-9	0.37	U	0.37	1.9		1
10225	PCB-1248	12672-29-6	0.37	U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.44	U	0.44	1.9		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-082-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA7-SB

LLI Sample # SW 6451567
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2011 09:00

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7404 SDG#: DE274-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.37	U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U	0.37	1.9		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,100		6.63	21.9		1
07914	Boron	7440-42-8	2.74	J	0.395	5.48		1
01650	Calcium	7440-70-2	1,390		2.74	21.9		1
01654	Iron	7439-89-6	16,200		2.86	21.9		1
01656	Lithium	7439-93-2	14.7		0.68	2.2		1
01657	Magnesium	7439-95-4	3,330		0.483	11.0		1
06958	Manganese	7439-96-5	127		0.0395	0.548		1
10145	Phosphorus	7723-14-0	84.5		0.384	11.0		1
01662	Potassium	7440-09-7	1,200		12.4	54.8		1
01667	Sodium	7440-23-5	152		6.52	110		1
07968	Strontium	7440-24-6	12.3		0.0274	0.548		1
06969	Tin	7440-31-5	2.74	J	0.351	11.0		1
06970	Titanium	7440-32-6	1,150		0.0779	1.10		1
10146	Zirconium	7440-67-7	2.03	J	0.504	5.48		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.115	J	0.0812	0.219		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.82		0.0877	0.439		2
06126	Barium	7440-39-3	46.8		0.116	0.439		2
06127	Beryllium	7440-41-7	0.849		0.0175	0.110		2
06128	Cadmium	7440-43-9	0.0483	U	0.0483	0.110		2
06131	Chromium	7440-47-3	18.2		0.132	0.439		2
06132	Cobalt	7440-48-4	5.66		0.0219	0.110		2
06133	Copper	7440-50-8	5.38		0.0877	0.439		2
06135	Lead	7439-92-1	5.96		0.0112	0.219		2
06138	Molybdenum	7439-98-7	0.500		0.0548	0.110		2
06139	Nickel	7440-02-0	8.01		0.110	0.439		2
06141	Selenium	7782-49-2	0.129	J	0.0636	0.439		2
06142	Silver	7440-22-4	0.0597	J	0.0156	0.110		2
06145	Thallium	7440-28-0	0.263		0.0329	0.110		2
06148	Vanadium	7440-62-2	40.7		0.0241	0.110		2
06149	Zinc	7440-66-6	37.4		0.614	3.29		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0136	J	0.0076	0.108		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.4		0.89	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1	U	10.1	33.6		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-082-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA7-SB

LLI Sample # SW 6451567
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2011 09:00

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7404 SDG#: DE274-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.31 J	0.22	1.1		1
	SW-846 9045C modified		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.83	0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	10.6	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11304SLB026	11/14/2011	11:38	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11304SLC026	11/11/2011	12:37	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11304SLC026	11/01/2011	10:15	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11304SLB026	11/01/2011	10:10	Denise L Trimby	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	113060017A	11/03/2011	19:12	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113010003A	11/02/2011	08:47	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113010003A	10/28/2011	18:15	Sally L Appleyard	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	113060017A	11/03/2011	07:10	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	113005708002	10/31/2011	09:09	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113005708002	10/31/2011	09:09	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113005708002	10/31/2011	09:09	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	113005708002	10/31/2011	09:09	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113005708002	10/31/2011	09:09	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113005708002	10/31/2011	09:09	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113005708002	10/31/2011	09:09	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113005708002	10/31/2011	09:09	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113005708002	10/31/2011	09:09	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113005708002	10/31/2011	09:09	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113005708002	10/31/2011	09:09	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113005708002	10/31/2011	09:09	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-082-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA7-SB

LLI Sample # SW 6451567
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2011 09:00

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7404 SDG#: DE274-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	113005708002	10/31/2011 09:09	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113005708002	10/31/2011 09:09	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113001026002A	11/02/2011 22:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113001026002A	11/02/2011 22:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113001026002D	11/02/2011 22:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113001026002A	11/02/2011 22:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	113001026002A	11/02/2011 22:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113001026002A	11/02/2011 22:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113001026002A	11/02/2011 22:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113001026002A	11/02/2011 22:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113001026002A	11/02/2011 22:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113001026002C	11/02/2011 22:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113001026002A	11/02/2011 22:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113001026002B	11/02/2011 22:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113001026002A	11/02/2011 22:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113001026002A	11/02/2011 22:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113001026002A	11/02/2011 22:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113001026002A	11/02/2011 22:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113005711002	10/31/2011 09:10	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113005708002	10/30/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113001026002	10/30/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113005711002	10/31/2011 01:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11312621202A	11/08/2011 11:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11308621201A	11/04/2011 19:56	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11312243201A	11/09/2011 14:50	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11312621202A	11/08/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11308621201A	11/04/2011 06:50	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11311039401A	11/07/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11312243201A	11/08/2011 08:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401A	11/07/2011 22:36	Scott W Freisher	1

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Lancaster Laboratories

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Analysis Report

Sample Description: SL-086-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA7-SB

LLI Sample # SW 6451568
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 15:00

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7405 SDG#: DE274-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U	170	520		1
04688	Benzyl alcohol	100-51-6	170	U	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	2-butoxy-Ethanol	111-76-2	1,700	U	1,700	1,700		1
	2-butoxy-Ethanol was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170		1
04688	4-Chloroaniline	106-47-8	69	U	69	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520		1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	35	U	35	170		1
04688	4-Methylphenol	106-44-5	35	U	35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	35	U	35	170		1
04688	4-Nitroaniline	100-01-6	69	U	69	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1

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SSFL Area IV Collocated Soil Sampling
SL-086-SA7-SB

LLI Sample # SW 6451568
LLI Group # 1273439
Account # 13013

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Collected: 10/26/2011 15:00

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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E7405 SDG#: DE274-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	520		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	2-phenoxy-Ethanol	122-99-6	1,700	U	1,700	1,700		1
	2-phenoxy-Ethanol was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	1.8		0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7		1
10138	Anthracene	120-12-7	2.4		0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	10		0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	11		0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	17		0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	6.3		0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	6.3		0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19		1
10138	Chrysene	218-01-9	15		0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	1.7	J	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	54		6.2	19		1
10138	Fluoranthene	206-44-0	35		0.69	1.7		1
10138	Fluorene	86-73-7	1.2	J	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	5.7		0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	1.3	J	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19		1
10138	Phenanthrene	85-01-8	24		0.69	1.7		1
10138	Pyrene	129-00-0	22		0.69	1.7		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.6 ug/kg. The blank value was not subtracted from the analytical result.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0		24.7

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SSFL Area IV Collocated Soil Sampling
SL-086-SA7-SB

LLI Sample # SW 6451568
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Suite 210
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E7405 SDG#: DE274-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1
10225	PCB-1254	11097-69-1	0.34	U	0.34	1.8		1
10225	PCB-1260	11096-82-5	0.57	J	0.41	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1
GC Miscellaneous	**SW-846 8015B**		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
GC Miscellaneous	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.6		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.6		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.2		1
10199	EFH (C15-C20)	n.a.	0.49	J	0.42	1.2		1
10199	EFH (C21-C30)	n.a.	2.6		0.42	1.2		1
10199	EFH (C30 - C40)	n.a.	7.9		0.42	1.2		1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.2		1
Metals	**SW-846 6010B**		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	13,500		6.23	20.6		1
07914	Boron	7440-42-8	4.45	J	0.371	5.15		1
01650	Calcium	7440-70-2	5,390		2.58	20.6		1
01654	Iron	7439-89-6	26,500		2.69	20.6		1
01656	Lithium	7439-93-2	29.4		0.64	2.1		1
01657	Magnesium	7439-95-4	5,280		0.453	10.3		1
06958	Manganese	7439-96-5	347		0.0371	0.515		1
10145	Phosphorus	7723-14-0	622		0.361	10.3		1

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SSFL Area IV Collocated Soil Sampling
SL-086-SA7-SB

LLI Sample # SW 6451568
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E7405 SDG#: DE274-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01662	Potassium	7440-09-7	2,850		11.6	51.5		1
01667	Sodium	7440-23-5	94.2	J	6.13	103		1
07968	Strontium	7440-24-6	17.5		0.0258	0.515		1
06969	Tin	7440-31-5	2.97	J	0.330	10.3		1
06970	Titanium	7440-32-6	1,290		0.0731	1.03		1
10146	Zirconium	7440-67-7	2.13	J	0.474	5.15		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.177	J	0.0762	0.206		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.30		0.0824	0.412		2
06126	Barium	7440-39-3	83.0		0.109	0.412		2
06127	Beryllium	7440-41-7	0.498		0.0165	0.103		2
06128	Cadmium	7440-43-9	0.0915	J	0.0453	0.103		2
06131	Chromium	7440-47-3	22.9		0.124	0.412		2
06132	Cobalt	7440-48-4	7.21		0.0206	0.103		2
06133	Copper	7440-50-8	13.1		0.0824	0.412		2
06135	Lead	7439-92-1	6.79		0.0105	0.206		2
06138	Molybdenum	7439-98-7	0.660		0.0515	0.103		2
06139	Nickel	7440-02-0	18.8		0.103	0.412		2
06141	Selenium	7782-49-2	0.0598	U	0.0598	0.412		2
06142	Silver	7440-22-4	0.0411	J	0.0146	0.103		2
06145	Thallium	7440-28-0	0.280		0.0309	0.103		2
06148	Vanadium	7440-62-2	48.5		0.0227	0.103		2
06149	Zinc	7440-66-6	63.3		0.577	3.09		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0083	J	0.0072	0.102		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3		0.84	1.1		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.2		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36	J	0.21	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.51		0.0100	0.0100		1

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Analysis Report

Sample Description: SL-086-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA7-SB

LLI Sample # SW 6451568
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 15:00

Submitted: 10/27/2011 09:25
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E7405 SDG#: DE274-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	
11624	Moisture Content by 160.3	n.a.	3.9	0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-086-SA7-SB-3.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11304SLB026	11/14/2011	12:03	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11304SLC026	11/11/2011	13:12	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11304SLC026	11/01/2011	10:15	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11304SLB026	11/01/2011	10:10	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11299A16B	11/01/2011	20:04	Laura M Krieger	24.7
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201130025984	10/27/2011	14:22	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201130025984	10/27/2011	14:22	Christopher D Meeks	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113010003A	11/02/2011	09:06	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113010003A	10/28/2011	18:15	Sally L Appleyard	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	113040033A	11/01/2011	19:43	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	113080023A	11/04/2011	22:19	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	113060014A	11/09/2011	17:36	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	113070014A	11/05/2011	06:26	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	113070014A	11/03/2011	19:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	113060014A	11/02/2011	18:00	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	113040033A	11/01/2011	18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	113080023A	11/04/2011	19:35	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	113005708002	10/31/2011	09:13	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113005708002	10/31/2011	09:13	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113005708002	10/31/2011	09:13	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	113005708002	10/31/2011	09:13	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113005708002	10/31/2011	09:13	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-086-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-086-SA7-SB

LLI Sample # SW 6451568
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 15:00

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7405 SDG#: DE274-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01657	Magnesium	SW-846 6010B	1	113005708002	10/31/2011 09:13	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113005708002	10/31/2011 09:13	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113005708002	10/31/2011 09:13	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113005708002	10/31/2011 09:13	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113005708002	10/31/2011 09:13	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113005708002	10/31/2011 09:13	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113005708002	10/31/2011 09:13	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	113005708002	10/31/2011 09:13	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113005708002	10/31/2011 09:13	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113001026002A	11/02/2011 22:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113001026002A	11/02/2011 22:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113001026002D	11/02/2011 22:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113001026002A	11/02/2011 22:32	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	113001026002A	11/02/2011 22:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113001026002A	11/02/2011 22:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113001026002A	11/02/2011 22:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113001026002A	11/02/2011 22:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113001026002A	11/02/2011 22:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113001026002C	11/02/2011 22:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113001026002A	11/02/2011 22:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113001026002B	11/02/2011 22:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113001026002A	11/02/2011 22:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113001026002A	11/02/2011 22:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113001026002A	11/02/2011 22:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113001026002A	11/02/2011 22:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113005711002	10/31/2011 09:12	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113005708002	10/30/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113001026002	10/30/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113005711002	10/31/2011 01:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11312621202A	11/08/2011 12:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11308621201A	11/04/2011 20:17	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11312243201A	11/09/2011 14:56	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11312102202A	11/08/2011 19:45	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11312621202A	11/08/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11308621201A	11/04/2011 06:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11312102202A	11/08/2011 16:25	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11311039401A	11/07/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11312243201A	11/08/2011 08:30	Yolunder Y Bunch	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-086-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-086-SA7-SB

LLI Sample # SW 6451568
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 15:00

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7405 SDG#: DE274-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401A	11/07/2011 22:36	Scott W Freisher	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-157-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-SA7-SB

LLI Sample # SW 6451569
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 15:00

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7406 SDG#: DE274-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	59	J	17	340		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1

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Sample Description: SL-157-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-SA7-SB

LLI Sample # SW 6451569
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 15:00

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7406 SDG#: DE274-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.69	U	0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7		1
10138	Anthracene	120-12-7	0.63	J	0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	5.3		0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	5.7		0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	11		0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	4.2		0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	3.4		0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	19		1
10138	Di-n-butylphthalate	84-74-2	6.2	U	6.2	19		1
10138	Chrysene	218-01-9	8.6		0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.93	J	0.69	1.7		1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	19		1
10138	Fluoranthene	206-44-0	21		0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U	0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.5		0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U	0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U	0.69	1.7		1
10138	Naphthalene	91-20-3	0.69	U	0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.69	U	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U	6.2	19		1
10138	Phenanthrene	85-01-8	8.0		0.69	1.7		1
10138	Pyrene	129-00-0	12		0.69	1.7		1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8		1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8		1
10225	PCB-1254	11097-69-1	0.35	J	0.34	1.8		1
10225	PCB-1260	11096-82-5	0.98	J	0.40	1.8		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8		1

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Sample Description: **SL-157-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-157-SA7-SB

LLI Sample # SW 6451569
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 15:00

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Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7406 SDG#: DE274-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520		1
10501	Isopropanol	67-63-0	100	U	100	520		1
10501	Methanol	67-56-1	100	U	100	520		1
	The sample was analyzed 19 minutes outside the client requested 7 day hold time.							
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10		1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10		1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10		1
08283	Triethylene glycol	112-27-6	5.2	U	5.2	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	0.60	J	0.41	1.2		1
10199	EFH (C21-C30)	n.a.	3.4		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	5.0		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.41	U	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,500		6.13	20.3		1
07914	Boron	7440-42-8	2.23	J	0.365	5.06		1
01650	Calcium	7440-70-2	2,520		2.53	20.3		1
01654	Iron	7439-89-6	18,300		2.64	20.3		1
01656	Lithium	7439-93-2	25.2		0.63	2.0		1
01657	Magnesium	7439-95-4	3,670		0.446	10.1		1
06958	Manganese	7439-96-5	256		0.0365	0.506		1
10145	Phosphorus	7723-14-0	353		0.354	10.1		1
01662	Potassium	7440-09-7	3,210		11.4	50.6		1
01667	Sodium	7440-23-5	82.1	J	6.03	101		1
07968	Strontium	7440-24-6	9.48		0.0253	0.506		1
06969	Tin	7440-31-5	2.77	J	0.324	10.1		1
06970	Titanium	7440-32-6	1,150		0.0719	1.01		1
10146	Zirconium	7440-67-7	1.01	J	0.466	5.06		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0757	U	0.0757	0.205		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-157-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-SA7-SB

LLI Sample # SW 6451569
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 15:00

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7406 SDG#: DE274-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6020**		mg/kg		mg/kg	mg/kg	mg/kg	
06125	Arsenic	7440-38-2	3.68		0.0818	0.409		2
06126	Barium	7440-39-3	68.7		0.108	0.409		2
06127	Beryllium	7440-41-7	0.434		0.0164	0.102		2
06128	Cadmium	7440-43-9	0.0691	J	0.0450	0.102		2
06131	Chromium	7440-47-3	11.5		0.123	0.409		2
06132	Cobalt	7440-48-4	4.18		0.0205	0.102		2
06133	Copper	7440-50-8	4.54		0.0818	0.409		2
06135	Lead	7439-92-1	5.53		0.0104	0.205		2
06138	Molybdenum	7439-98-7	0.160		0.0511	0.102		2
06139	Nickel	7440-02-0	6.64		0.102	0.409		2
06141	Selenium	7782-49-2	0.0593	U	0.0593	0.409		2
06142	Silver	7440-22-4	0.0145	U	0.0145	0.102		2
06145	Thallium	7440-28-0	0.242		0.0307	0.102		2
06148	Vanadium	7440-62-2	21.1		0.0225	0.102		2
06149	Zinc	7440-66-6	61.3		0.573	3.07		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0069	U	0.0069	0.0982		1
Wet Chemistry	**EPA 300.0**		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.84	U	0.84	1.1		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3	U	9.3	31.0		1
	SW-846 7199		mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.32	J	0.21	1.0		1
	SW-846 9012B		mg/kg		mg/kg	mg/kg	mg/kg	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51		1
	SW-846 9045C modified		Std. Units		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.23		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		%		%	%	%	
11624	Moisture Content by 160.3	n.a.	3.2		0.50	0.50		1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-157-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-SA7-SB

LLI Sample # SW 6451569
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 15:00

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7406 SDG#: DE274-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11304SLB026	11/14/2011 12:28	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11304SLC026	11/11/2011 13:48	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11304SLC026	11/01/2011 10:15	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11304SLB026	11/01/2011 10:10	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113010003A	11/02/2011 09:25	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113010003A	10/28/2011 18:15	Sally L Appleyard	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	113060028A	11/03/2011 00:18	Elizabeth J Marin	1
08283	Glycols in Soil	SW-846 8015B modified	1	113080023A	11/04/2011 22:32	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	113060014A	11/09/2011 19:26	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	113070014A	11/05/2011 05:38	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	113070014A	11/03/2011 19:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	113060014A	11/02/2011 18:00	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	113060028A	11/02/2011 19:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	113080023A	11/04/2011 19:35	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	113005708002	10/31/2011 09:17	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113005708002	10/31/2011 09:17	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113005708002	10/31/2011 09:17	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	113005708002	10/31/2011 09:17	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113005708002	10/31/2011 09:17	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113005708002	10/31/2011 09:17	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113005708002	10/31/2011 09:17	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113005708002	10/31/2011 09:17	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113005708002	10/31/2011 09:17	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113005708002	10/31/2011 09:17	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113005708002	10/31/2011 09:17	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113005708002	10/31/2011 09:17	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	113005708002	10/31/2011 09:17	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113005708002	10/31/2011 09:17	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113001026002A	11/02/2011 22:36	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113001026002A	11/02/2011 22:36	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113001026002D	11/02/2011 22:36	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113001026002A	11/02/2011 22:36	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	113001026002A	11/02/2011 22:36	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113001026002A	11/02/2011 22:36	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113001026002A	11/02/2011 22:36	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113001026002A	11/02/2011 22:36	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113001026002A	11/02/2011 22:36	Choon Y Tian	2

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-157-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-157-SA7-SB

LLI Sample # SW 6451569
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 15:00

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7406 SDG#: DE274-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	113001026002C	11/02/2011 22:36	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113001026002A	11/02/2011 22:36	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113001026002B	11/02/2011 22:36	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113001026002A	11/02/2011 22:36	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113001026002A	11/02/2011 22:36	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113001026002A	11/02/2011 22:36	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113001026002A	11/02/2011 22:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113005711002	10/31/2011 09:13	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113005708002	10/30/2011 20:31	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113001026002	10/30/2011 20:55	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113005711002	10/31/2011 01:45	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11312621202A	11/08/2011 12:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11308621201A	11/04/2011 20:38	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11312243201A	11/09/2011 15:16	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11312102202A	11/08/2011 19:49	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11312621202A	11/08/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11308621201A	11/04/2011 06:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11312102202A	11/08/2011 16:25	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11311039401A	11/07/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11312243201A	11/08/2011 08:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401A	11/07/2011 22:36	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **TB-102611 Water**
SSFL Area IV Collocated Soil Sampling
TB

LLI Sample # WW 6451570
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 14:30

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7407 SDG#: DE274-07TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11304A20A	11/01/2011 15:49	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11304A20A	11/01/2011 15:49	Marie D John	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA7-SB-102611 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB

LLI Sample # WW 6451571
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 07:30

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7408 SDG#: DE274-08EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/l		ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5		1
04678	Benzidine	92-87-5	22	U	22	65		1
04678	Benzoic acid	65-85-0	7	U	7	16		1
04678	Benzyl alcohol	100-51-6	5	U	5	16		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	5		1
04678	2-butoxy-Ethanol	111-76-2	55	U	55	55		1
	2-butoxy-Ethanol was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04678	Carbazole	86-74-8	1	U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	5		1
04678	4-Chloroaniline	106-47-8	1	U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	5		1
04678	2-Chlorophenol	95-57-8	1	U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	5		1
04678	Dibenzofuran	132-64-9	1	U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1	U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	11		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	11		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16		1
04678	2,4-Dinitrophenol	51-28-5	11	U	11	33		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	16		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	11	U	11	33		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB-SA7-SB-102611 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB

LLI Sample # WW 6451571
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 07:30

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7408 SDG#: DE274-08EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	16		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	2-phenoxy-Ethanol	122-99-6	55	U	55	55		1
	2-phenoxy-Ethanol was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04678	Tetralin	119-64-2	5	U	5	5		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.050		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.050		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.050		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.050		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.050		1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.050		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.050		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.050		1
10137	Butylbenzylphthalate	85-68-7	0.050	U	0.050	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.28	J	0.050	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.050		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.050		1
10137	Diethylphthalate	84-66-2	0.075	J	0.050	1.0		1
10137	Dimethylphthalate	131-11-3	0.050	U	0.050	1.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.17	J	0.050	1.0		1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.050		1
10137	Fluorene	86-73-7	0.010	U	0.010	0.050		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010	U	0.010	0.050		1
10137	1-Methylnaphthalene	90-12-0	0.010	U	0.010	0.050		1
10137	2-Methylnaphthalene	91-57-6	0.010	U	0.010	0.050		1
10137	Naphthalene	91-20-3	0.037	J	0.030	0.050		1
10137	N-Nitrosodimethylamine	62-75-9	0.010	U	0.010	0.050		1
10137	Di-n-octylphthalate	117-84-0	0.050	U	0.050	1.0		1
10137	Phenanthrene	85-01-8	0.030	U	0.030	0.050		1
10137	Pyrene	129-00-0	0.010	U	0.010	0.050		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of .11 ug/l. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and bis(2-ethylhexyl)phthalate was again detected in the method blank and the re-analysis of the sample. The data reported here is from the initial extraction of the sample.							

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **EB-SA7-SB-102611 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB

LLI Sample # WW 6451571
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 07:30

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7408 SDG#: DE274-08EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		ug/l		ug/l	ug/l	ug/l	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.51		1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.51		1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.51		1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.51		1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.51		1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.51		1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.51		1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.51		1
10227	PCB-1254	11097-69-1	0.10	U	0.10	0.51		1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.50		1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.51		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.51		1
Metals	**SW-846 6010B**		mg/l		mg/l	mg/l	mg/l	
01743	Aluminum	7429-90-5	0.0801	U	0.0801	0.200		1
08014	Boron	7440-42-8	0.0056	J	0.0022	0.0500		1
01750	Calcium	7440-70-2	0.0705	U	0.0705	0.200		1
01754	Iron	7439-89-6	0.0424	J	0.0141	0.200		1
01756	Lithium	7439-93-2	0.0076	U	0.0076	0.0200		1
01757	Magnesium	7439-95-4	0.0067	U	0.0067	0.100		1
07058	Manganese	7439-96-5	0.00052	J	0.00044	0.0050		1
10143	Phosphorus	7723-14-0	0.0047	U	0.0047	0.100		1
01762	Potassium	7440-09-7	0.0874	U	0.0874	0.500		1
01767	Sodium	7440-23-5	0.0647	U	0.0647	1.00		1
08068	Strontium	7440-24-6	0.00022	U	0.00022	0.0050		1
07069	Tin	7440-31-5	0.0043	U	0.0043	0.0200		1
07070	Titanium	7440-32-6	0.00046	U	0.00046	0.0100		1
10144	Zirconium	7440-67-7	0.0042	U	0.0042	0.0500		1
	SW-846 6020		mg/l		mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	0.00042	U	0.00042	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00069	U	0.00069	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000080	U	0.000080	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00027	U	0.00027	0.0020		1
06042	Silver	7440-22-4	0.000098	U	0.000098	0.00050		1
06045	Thallium	7440-28-0	0.00015	U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00018	U	0.00018	0.00050		1
06049	Zinc	7440-66-6	0.0040	U	0.0040	0.0150		1
	SW-846 7470A		mg/l		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.000026	U	0.000026	0.00020		1

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Sample Description: **EB-SA7-SB-102611 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB

LLI Sample # WW 6451571
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 07:30

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7408 SDG#: DE274-08EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080	U	0.080	0.10		1
	EPA 314.0		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70	U	0.70	2.0		1
	SW-846 7199		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0	U	5.0	10.0		1
	The sample was analyzed outside of the 24 hour holding time for hexavalent chromium.							
	SW-846 9040B		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00200	17b pH by 9040B	n.a.	5.7		0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04678	5b Semivolatiles by 8270C	SW-846 8270C	1	11306WAA026	11/07/2011 21:00	Holly Berry	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11304WAF026	11/12/2011 00:03	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11306WAA026	11/02/2011 16:30	Nicholas W Shroyer	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11304WAF026	11/01/2011 09:30	Cynthia J Salvatori	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	113050018A	11/09/2011 12:38	Jessica L Miller	1
11117	PCB Waters Extraction	SW-846 3510C	1	113050018A	11/02/2011 03:00	Sherry L Morrow	1
01743	Aluminum	SW-846 6010B	1	113081848004	11/06/2011 22:08	Tara L Snyder	1
08014	Boron	SW-846 6010B	1	113081848004	11/06/2011 22:08	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	113081848004	11/06/2011 22:08	Tara L Snyder	1
01754	Iron	SW-846 6010B	1	113081848004	11/06/2011 22:08	Tara L Snyder	1
01756	Lithium	SW-846 6010B	1	113081848004	11/06/2011 22:08	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	113081848004	11/06/2011 22:08	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	113081848004	11/06/2011 22:08	Tara L Snyder	1
10143	Phosphorus	SW-846 6010B	1	113081848004	11/06/2011 22:08	Tara L Snyder	1
01762	Potassium	SW-846 6010B	1	113081848004	11/06/2011 22:08	Tara L Snyder	1
01767	Sodium	SW-846 6010B	1	113081848004	11/06/2011 22:08	Tara L Snyder	1
08068	Strontium	SW-846 6010B	1	113081848004	11/06/2011 22:08	Tara L Snyder	1
07069	Tin	SW-846 6010B	1	113081848004	11/06/2011 22:08	Tara L Snyder	1
07070	Titanium	SW-846 6010B	1	113081848004	11/06/2011 22:08	Tara L Snyder	1

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: EB-SA7-SB-102611 Water
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB

LLI Sample # WW 6451571
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 07:30

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Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7408 SDG#: DE274-08EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10144	Zirconium	SW-846 6010B	1	113081848004	11/06/2011 22:08	Tara L Snyder	1
06024	Antimony	SW-846 6020	2	113116050002A	11/09/2011 16:07	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	113086050005A	11/07/2011 10:54	Choon Y Tian	1
06026	Barium	SW-846 6020	1	113086050005D	11/07/2011 10:54	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	113086050005A	11/07/2011 10:54	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	113086050005A	11/07/2011 10:54	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	113086050005A	11/07/2011 10:54	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	113086050005A	11/07/2011 10:54	Choon Y Tian	1
06033	Copper	SW-846 6020	1	113086050005A	11/07/2011 10:54	Choon Y Tian	1
06035	Lead	SW-846 6020	1	113086050005A	11/07/2011 10:54	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	113086050005C	11/07/2011 10:54	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	113086050005A	11/07/2011 10:54	Choon Y Tian	1
06041	Selenium	SW-846 6020	2	113116050002B	11/09/2011 16:07	Choon Y Tian	1
06042	Silver	SW-846 6020	1	113086050005A	11/07/2011 10:54	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	113086050005A	11/07/2011 10:54	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	113086050005A	11/07/2011 10:54	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	113086050005A	11/07/2011 10:54	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	113015713007	10/31/2011 12:12	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	113081848004	11/06/2011 07:10	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	113086050005	11/06/2011 07:05	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	2	113116050002	11/08/2011 09:23	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	113015713007	10/28/2011 17:53	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11311196603B	11/08/2011 02:41	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11307281101A	11/04/2011 07:23	Elyse P Brunstetter	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11300281401A	10/27/2011 11:01	Elyse P Brunstetter	1
00200	17b pH by 9040B	SW-846 9040B	1	11300020001A	10/27/2011 21:30	Luz M Groff	1

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Lancaster Laboratories

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Analysis Report

Sample Description: FB-SA7-102611 Water
SSFL Area IV Collocated Soil Sampling
FB-SA7

LLI Sample # WW 6451572
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 09:45

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7409 SDG#: DE274-09FB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	ug/l	
10904	Acetone	67-64-1	6	U	6	20		1
10904	Benzene	71-43-2	0.5	U	0.5	5		1
10904	Bromobenzene	108-86-1	1	U	1	5		1
10904	Bromochloromethane	74-97-5	1	U	1	5		1
10904	Bromodichloromethane	75-27-4	1	U	1	5		1
10904	Bromoform	75-25-2	1	U	1	5		1
10904	Bromomethane	74-83-9	1	U	1	5		1
10904	2-Butanone	78-93-3	3	U	3	10		1
10904	n-Butylbenzene	104-51-8	1	U	1	5		1
10904	sec-Butylbenzene	135-98-8	1	U	1	5		1
10904	tert-Butylbenzene	98-06-6	1	U	1	5		1
10904	Carbon Tetrachloride	56-23-5	1	U	1	5		1
10904	Chlorobenzene	108-90-7	0.8	U	0.8	5		1
10904	Chloroethane	75-00-3	1	U	1	5		1
10904	2-Chloroethyl Vinyl Ether	110-75-8	2	U	2	10		1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.							
10904	Chloroform	67-66-3	0.8	U	0.8	5		1
10904	Chloromethane	74-87-3	1	U	1	5		1
10904	2-Chlorotoluene	95-49-8	1	U	1	5		1
10904	4-Chlorotoluene	106-43-4	1	U	1	5		1
10904	Chlorotrifluoroethene	79-38-9	2	U	2	5		1
10904	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5		1
10904	Dibromochloromethane	124-48-1	1	U	1	5		1
10904	1,2-Dibromoethane	106-93-4	1	U	1	5		1
10904	Dibromomethane	74-95-3	1	U	1	5		1
10904	1,2-Dichlorobenzene	95-50-1	1	U	1	5		1
10904	1,3-Dichlorobenzene	541-73-1	1	U	1	5		1
10904	1,4-Dichlorobenzene	106-46-7	1	U	1	5		1
10904	Dichlorodifluoromethane	75-71-8	2	U	2	5		1
10904	1,1-Dichloroethane	75-34-3	1	U	1	5		1
10904	1,2-Dichloroethane	107-06-2	1	U	1	5		1
10904	1,1-Dichloroethene	75-35-4	0.8	U	0.8	5		1
10904	cis-1,2-Dichloroethene	156-59-2	0.8	U	0.8	5		1
10904	trans-1,2-Dichloroethene	156-60-5	0.8	U	0.8	5		1
10904	1,2-Dichloropropane	78-87-5	1	U	1	5		1
10904	1,3-Dichloropropane	142-28-9	1	U	1	5		1
10904	2,2-Dichloropropane	594-20-7	1	U	1	5		1
10904	1,1-Dichloropropene	563-58-6	1	U	1	5		1
10904	cis-1,3-Dichloropropene	10061-01-5	1	U	1	5		1
10904	trans-1,3-Dichloropropene	10061-02-6	1	U	1	5		1
10904	Ethylbenzene	100-41-4	0.8	U	0.8	5		1
10904	Freon 113	76-13-1	2	U	2	10		1
10904	Freon 133a	75-88-7	2	U	2	5		1
10904	Hexachlorobutadiene	87-68-3	2	U	2	5		1
10904	2-Hexanone	591-78-6	3	U	3	10		1
10904	Isopropylbenzene	98-82-8	1	U	1	5		1
10904	p-Isopropyltoluene	99-87-6	1	U	1	5		1
10904	Methyl Tertiary Butyl Ether	1634-04-4	0.5	U	0.5	5		1
10904	4-Methyl-2-pentanone	108-10-1	3	U	3	10		1

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Sample Description: **FB-SA7-102611 Water**
SSFL Area IV Collocated Soil Sampling
FB-SA7

LLI Sample # WW 6451572
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 09:45

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7409 SDG#: DE274-09FB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10904	Methylene Chloride	75-09-2	2	U	2	5		1
10904	n-Propylbenzene	103-65-1	1	U	1	5		1
10904	Styrene	100-42-5	1	U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5		1
10904	Toluene	108-88-3	0.7	U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5		1
10904	Trichloroethene	79-01-6	1	U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5		1
10904	Vinyl Chloride	75-01-4	1	U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5		1
10904	o-Xylene	95-47-6	0.8	U	0.8	5		1
GC/MS Volatiles	**SW-846 8260B SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0		1
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	0.550	U	0.550	1.10		1
GC/MS Semivolatiles	**SW-846 8270C**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04678	Aniline	62-53-3	1	U	1	6		1
04678	Benzidine	92-87-5	22	U	22	66		1
04678	Benzoic acid	65-85-0	7	U	7	17		1
04678	Benzyl alcohol	100-51-6	6	U	6	17		1
04678	4-Bromophenyl-phenylether	101-55-3	1	U	1	6		1
04678	2-butoxy-Ethanol	111-76-2	55	U	55	55		1
	2-butoxy-Ethanol was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04678	Carbazole	86-74-8	1	U	1	6		1
04678	4-Chloro-3-methylphenol	59-50-7	1	U	1	6		1
04678	4-Chloroaniline	106-47-8	1	U	1	6		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1	U	1	6		1
04678	bis(2-Chloroethyl)ether	111-44-4	1	U	1	6		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1	U	1	6		1
04678	2-Chloronaphthalene	91-58-7	2	U	2	6		1
04678	2-Chlorophenol	95-57-8	1	U	1	6		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2	U	2	6		1
04678	Dibenzofuran	132-64-9	1	U	1	6		1
04678	1,2-Dichlorobenzene	95-50-1	1	U	1	6		1
04678	1,3-Dichlorobenzene	541-73-1	1	U	1	6		1
04678	1,4-Dichlorobenzene	106-46-7	1	U	1	6		1
04678	3,3'-Dichlorobenzidine	91-94-1	2	U	2	6		1

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Sample Description: **FB-SA7-102611 Water**
SSFL Area IV Collocated Soil Sampling
FB-SA7

LLI Sample # WW 6451572
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 09:45

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7409 SDG#: DE274-09FB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		ug/l		ug/l	ug/l	ug/l	
04678	2,4-Dichlorophenol	120-83-2	1	U	1	6		1
04678	2,4-Dimethylphenol	105-67-9	3	U	3	11		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	11		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	6	U	6	17		1
04678	2,4-Dinitrophenol	51-28-5	11	U	11	33		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	6		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	6		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	6		1
04678	Hexachlorobenzene	118-74-1	1	U	1	6		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	6		1
04678	Hexachlorocyclopentadiene	77-47-4	6	U	6	17		1
04678	Hexachloroethane	67-72-1	1	U	1	6		1
04678	Isophorone	78-59-1	1	U	1	6		1
04678	2-Methylphenol	95-48-7	1	U	1	6		1
04678	4-Methylphenol	106-44-5	2	U	2	6		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04678	2-Nitroaniline	88-74-4	1	U	1	6		1
04678	3-Nitroaniline	99-09-2	1	U	1	6		1
04678	4-Nitroaniline	100-01-6	1	U	1	6		1
04678	Nitrobenzene	98-95-3	1	U	1	6		1
04678	2-Nitrophenol	88-75-5	1	U	1	6		1
04678	4-Nitrophenol	100-02-7	11	U	11	33		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	6		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	6		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04678	Pentachlorophenol	87-86-5	3	U	3	17		1
04678	Phenol	108-95-2	1	U	1	6		1
04678	2-phenoxy-Ethanol	122-99-6	55	U	55	55		1
	2-phenoxy-Ethanol was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04678	Tetralin	119-64-2	6	U	6	6		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	6		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	6		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	6		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		ug/l		ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.0098	U	0.0098	0.049		1
10137	Acenaphthylene	208-96-8	0.0098	U	0.0098	0.049		1
10137	Anthracene	120-12-7	0.0098	U	0.0098	0.049		1
10137	Benzo(a)anthracene	56-55-3	0.0098	U	0.0098	0.049		1
10137	Benzo(a)pyrene	50-32-8	0.0098	U	0.0098	0.049		1
10137	Benzo(b)fluoranthene	205-99-2	0.0098	U	0.0098	0.049		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **FB-SA7-102611 Water**
SSFL Area IV Collocated Soil Sampling
FB-SA7

LLI Sample # WW 6451572
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 09:45

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7409 SDG#: DE274-09FB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10137	Benzo(g,h,i)perylene	191-24-2	0.0098	U	0.0098	0.049		1
10137	Benzo(k)fluoranthene	207-08-9	0.0098	U	0.0098	0.049		1
10137	Butylbenzylphthalate	85-68-7	0.049	U	0.049	0.98		1
10137	Di-n-butylphthalate	84-74-2	0.049	U	0.049	0.98		1
10137	Chrysene	218-01-9	0.0098	U	0.0098	0.049		1
10137	Dibenz(a,h)anthracene	53-70-3	0.0098	U	0.0098	0.049		1
10137	Diethylphthalate	84-66-2	0.049	U	0.049	0.98		1
10137	Dimethylphthalate	131-11-3	0.049	U	0.049	0.98		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.18	J	0.049	0.98		1
10137	Fluoranthene	206-44-0	0.0098	U	0.0098	0.049		1
10137	Fluorene	86-73-7	0.0098	U	0.0098	0.049		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.0098	U	0.0098	0.049		1
10137	1-Methylnaphthalene	90-12-0	0.0098	U	0.0098	0.049		1
10137	2-Methylnaphthalene	91-57-6	0.0098	U	0.0098	0.049		1
10137	Naphthalene	91-20-3	0.029	U	0.029	0.049		1
10137	N-Nitrosodimethylamine	62-75-9	0.0098	U	0.0098	0.049		1
10137	Di-n-octylphthalate	117-84-0	0.083	J	0.049	0.98		1
10137	Phenanthrene	85-01-8	0.029	U	0.029	0.049		1
10137	Pyrene	129-00-0	0.0098	U	0.0098	0.049		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of .11 ug/l. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and bis(2-ethylhexyl)phthalate was not detected in the re-analysis of the sample. The data reported here is from the initial extraction of the sample.

GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30	U	0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **FB-SA7-102611 Water**
SSFL Area IV Collocated Soil Sampling
FB-SA7

LLI Sample # WW 6451572
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 09:45

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7409 SDG#: DE274-09FB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	0.20	U	0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
Herbicides	**SW-846 8151A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10407	2,4-D	94-75-7	0.17	U	0.17	0.54		1
10407	Dalapon	75-99-0	0.27	U	0.27	1.4		1
10407	2,4-DB	94-82-6	0.32	U	0.32	1.1		1
10407	Dicamba	1918-00-9	0.086	U	0.086	0.32		1
10407	Dinoseb	88-85-7	0.11	U	0.11	0.54		1
10407	2,4-DP (Dichlorprop)	120-36-5	0.17	U	0.17	0.54		1
10407	MCPA	94-74-6	320	U	320	1,100		1
10407	MCPP	93-65-2	54	U	54	220		1
10407	2,4,5-T	93-76-5	0.016	U	0.016	0.054		1
10407	2,4,5-TP	93-72-1	0.011	U	0.011	0.054		1
HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	20b Formaldehyde 8315A	50-00-0	10	U	10	50		1
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00177	Aldrin	309-00-2	0.0051	U	0.0051	0.026		1
00177	Alpha BHC	319-84-6	0.0077	U	0.0077	0.026		1
00177	Beta BHC	319-85-7	0.0074	U	0.0074	0.026		1
00177	Gamma BHC - Lindane	58-89-9	0.0051	U	0.0051	0.026		1
00177	Chlordane	57-74-9	0.31	U	0.31	1.3		1
00177	p,p-DDD	72-54-8	0.013	U	0.013	0.051		1
00177	p,p-DDE	72-55-9	0.013	U	0.013	0.051		1
00177	p,p-DDT	50-29-3	0.013	U	0.013	0.051		1
00177	Delta BHC	319-86-8	0.0074	U	0.0074	0.026		1
00177	Dieldrin	60-57-1	0.014	U	0.014	0.051		1
00177	Endosulfan I	959-98-8	0.011	U	0.011	0.026		1
00177	Endosulfan II	33213-65-9	0.038	U	0.038	0.051		1
00177	Endosulfan Sulfate	1031-07-8	0.015	U	0.015	0.051		1
00177	Endrin	72-20-8	0.021	U	0.021	0.051		1

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Sample Description: **FB-SA7-102611 Water**
SSFL Area IV Collocated Soil Sampling
FB-SA7

LLI Sample # WW 6451572
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 09:45

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7409 SDG#: DE274-09FB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8081A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
00177	Endrin Aldehyde	7421-93-4	0.051	U	0.051	0.26		1
00177	Endrin Ketone	53494-70-5	0.013	U	0.013	0.051		1
00177	Heptachlor	76-44-8	0.0066	U	0.0066	0.026		1
00177	Heptachlor Epoxide	1024-57-3	0.0059	U	0.0059	0.026		1
00177	Methoxychlor	72-43-5	0.077	U	0.077	0.26		1
00177	Mirex	2385-85-5	0.22	U	0.22	0.64		1
00177	Toxaphene	8001-35-2	2.6	U	2.6	7.7		1
Reporting limits were raised due to limited sample volume.								
Pesticides/PCBs	**SW-846 8082**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10227	Aroclor 5432	63496-31-1	0.098	U	0.098	0.49		1
10227	Aroclor 5442	12642-23-8	0.098	U	0.098	0.49		1
10227	Aroclor 5460	11126-42-4	0.098	U	0.098	0.49		1
10227	PCB-1016	12674-11-2	0.098	U	0.098	0.49		1
10227	PCB-1221	11104-28-2	0.098	U	0.098	0.49		1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.49		1
10227	PCB-1242	53469-21-9	0.098	U	0.098	0.49		1
10227	PCB-1248	12672-29-6	0.098	U	0.098	0.49		1
10227	PCB-1254	11097-69-1	0.098	U	0.098	0.49		1
10227	PCB-1260	11096-82-5	0.15	U	0.15	0.49		1
10227	PCB-1262	37324-23-5	0.20	U	0.20	0.49		1
10227	PCB-1268	11100-14-4	0.16	U	0.16	0.49		1
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1
The sample was analyzed 2 days outside the client requested 7 day hold time.								
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	20	U	20	200		1
08278	Ethylene glycol	107-21-1	20	U	20	200		1
08278	Propylene glycol	57-55-6	20	U	20	200		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.085	U	0.085	0.26		1
10319	o-Terphenyl	84-15-1	0.085	U	0.085	0.26		1
10319	p-Terphenyl	92-94-4	0.085	U	0.085	0.26		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.11	U	0.11	0.66		1
10365	EFH (C15-C20)	n.a.	0.11	U	0.11	0.66		1
10365	EFH (C21-C30)	n.a.	0.11	U	0.11	0.66		1
10365	EFH (C30 - C40)	n.a.	0.11	U	0.11	0.66		1

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Sample Description: **FB-SA7-102611 Water**
SSFL Area IV Collocated Soil Sampling
FB-SA7

LLI Sample # WW 6451572
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 09:45

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7409 SDG#: DE274-09FB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C8-C11)	n.a.	0.11	U	0.11	0.66		1
Metals	**SW-846 6010B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01743	Aluminum	7429-90-5	0.0801	U	0.0801	0.200		1
08014	Boron	7440-42-8	0.148		0.0022	0.0500		1
01750	Calcium	7440-70-2	9.89		0.0705	0.200		1
01754	Iron	7439-89-6	0.0141	U	0.0141	0.200		1
01756	Lithium	7439-93-2	0.0076	U	0.0076	0.0200		1
01757	Magnesium	7439-95-4	1.22		0.0067	0.100		1
07058	Manganese	7439-96-5	0.00044	U	0.00044	0.0050		1
10143	Phosphorus	7723-14-0	0.0047	U	0.0047	0.100		1
01762	Potassium	7440-09-7	0.0874	U	0.0874	0.500		1
01767	Sodium	7440-23-5	8.30		0.0647	1.00		1
08068	Strontium	7440-24-6	0.0018	J	0.00022	0.0050		1
07069	Tin	7440-31-5	0.0043	U	0.0043	0.0200		1
07070	Titanium	7440-32-6	0.00060	J	0.00046	0.0100		1
10144	Zirconium	7440-67-7	0.0042	U	0.0042	0.0500		1
	SW-846 6020		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
06024	Antimony	7440-36-0	0.00042	U	0.00042	0.0010		1
06025	Arsenic	7440-38-2	0.00095	U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00069	U	0.00069	0.0020		1
06027	Beryllium	7440-41-7	0.00013	U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020	U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060	U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010	U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038	U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000080	U	0.000080	0.0010		1
06038	Molybdenum	7439-98-7	0.00025	U	0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050	U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00027	U	0.00027	0.0020		1
06042	Silver	7440-22-4	0.000098	U	0.000098	0.00050		1
06045	Thallium	7440-28-0	0.00015	U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00018	U	0.00018	0.00050		1
06049	Zinc	7440-66-6	0.0040	U	0.0040	0.0150		1
	SW-846 7470A		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000026	U	0.000026	0.00020		1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080	U	0.080	0.10		1
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050	U	0.050	0.10		1
	EPA 314.0		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70	U	0.70	2.0		1

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Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **FB-SA7-102611 Water**
SSFL Area IV Collocated Soil Sampling
FB-SA7

LLI Sample # WW 6451572
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 09:45

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7409 SDG#: DE274-09FB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**SW-846 7199**		**ug/l**	**ug/l**	**ug/l**	**ug/l**	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	SW-846 9012B		**mg/l**	**mg/l**	**mg/l**	**mg/l**	
08255	16b Cyanide by 9012B	57-12-5	0.0050 U	0.0050	0.010		1
	SW-846 9040B		**Std. Units**	**Std. Units**	**Std. Units**	**Std. Units**	
00200	17b pH by 9040B	n.a.	7.2	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260B	SW-846 8260B	1	Y113052AA	11/01/2011 18:40	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E113001AA	10/27/2011 15:19	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E113001AA	10/27/2011 15:19	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y113052AA	11/01/2011 18:40	Frank A Valla, Jr	1
10962	21b NDMA by 1625C	EPA 1625C	1	11305WAA026	11/09/2011 23:53	Matthew S Woods	1
04678	5b Semivolatiles by 8270C	SW-846 8270C	1	11306WAA026	11/07/2011 21:25	Holly Berry	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11304WAF026	11/12/2011 00:38	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	11306WAA026	11/02/2011 16:30	Nicholas W Shroyer	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11304WAF026	11/01/2011 09:30	Cynthia J Salvatori	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11305WAA026	11/01/2011 13:50	Wanda F Oswald	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11304A20A	11/01/2011 17:17	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11304A20A	11/01/2011 17:17	Marie D John	1
10131	15b Energetics by 8330A	SW-846 8330A	1	113040017A	11/03/2011 11:02	James H Place	1
04144	20b Formaldehyde 8315A	SW-846 8315A	1	113000025A	10/31/2011 23:28	James H Place	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	113020010A	11/01/2011 19:18	John W Perkins	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	113050028A	11/05/2011 18:16	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	113050018A	11/09/2011 12:56	Jessica L Miller	1
11117	PCB Waters Extraction	SW-846 3510C	1	113050018A	11/02/2011 03:00	Sherry L Morrow	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	113050028A	11/02/2011 09:15	Kerrie A Freeburn	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **FB-SA7-102611 Water**
SSFL Area IV Collocated Soil Sampling
FB-SA7

LLI Sample # WW 6451572
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 09:45

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7409 SDG#: DE274-09FB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00816	Water Sample Herbicide Extract	SW-846 8151A	1	113020010A	10/31/2011 09:00	Kerrie A Freeburn	1
01013	Formaldehyde Extraction	SW-846 8315A	1	113000025A	10/28/2011 13:40	Kelli M Barto	1
11122	Energetics Extraction	SW-846 8330	1	113040017A	11/01/2011 13:15	Kelli M Barto	1
06624	18b Alcohols by 8015B	SW-846 8015B	1	113070034A	11/04/2011 19:45	Elizabeth J Marin	1
08278	19b Glycols by 8015B	SW-846 8015B modified	1	113040032A	10/31/2011 21:24	Tyler O Griffin	1
10319	22b Terphenyls by 8015B	SW-846 8015B	1	113040009A	11/02/2011 13:14	Robert Brown	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	113040007A	11/02/2011 18:23	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	113040007A	10/31/2011 18:00	Kathryn I DeHaven	1
10304	Terphenyls water prep	SW-846 3510C	1	113040009A	10/31/2011 17:00	Bronson L Cole	1
01743	Aluminum	SW-846 6010B	1	113081848004	11/06/2011 22:12	Tara L Snyder	1
08014	Boron	SW-846 6010B	1	113081848004	11/06/2011 22:12	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	113081848004	11/06/2011 22:12	Tara L Snyder	1
01754	Iron	SW-846 6010B	1	113081848004	11/06/2011 22:12	Tara L Snyder	1
01756	Lithium	SW-846 6010B	1	113081848004	11/06/2011 22:12	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	113081848004	11/06/2011 22:12	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	113081848004	11/06/2011 22:12	Tara L Snyder	1
10143	Phosphorus	SW-846 6010B	1	113081848004	11/06/2011 22:12	Tara L Snyder	1
01762	Potassium	SW-846 6010B	1	113081848004	11/06/2011 22:12	Tara L Snyder	1
01767	Sodium	SW-846 6010B	1	113081848004	11/06/2011 22:12	Tara L Snyder	1
08068	Strontium	SW-846 6010B	1	113081848004	11/06/2011 22:12	Tara L Snyder	1
07069	Tin	SW-846 6010B	1	113081848004	11/06/2011 22:12	Tara L Snyder	1
07070	Titanium	SW-846 6010B	1	113081848004	11/06/2011 22:12	Tara L Snyder	1
10144	Zirconium	SW-846 6010B	1	113081848004	11/06/2011 22:12	Tara L Snyder	1
06024	Antimony	SW-846 6020	2	113116050002A	11/09/2011 16:10	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	113086050005A	11/07/2011 10:57	Choon Y Tian	1
06026	Barium	SW-846 6020	1	113086050005D	11/07/2011 10:57	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	113086050005A	11/07/2011 10:57	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	113086050005A	11/07/2011 10:57	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	113086050005A	11/07/2011 10:57	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	113086050005A	11/07/2011 10:57	Choon Y Tian	1
06033	Copper	SW-846 6020	1	113086050005A	11/07/2011 10:57	Choon Y Tian	1
06035	Lead	SW-846 6020	1	113086050005A	11/07/2011 10:57	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	113086050005C	11/07/2011 10:57	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	113086050005A	11/07/2011 10:57	Choon Y Tian	1
06041	Selenium	SW-846 6020	2	113116050002B	11/09/2011 16:10	Choon Y Tian	1
06042	Silver	SW-846 6020	1	113086050005A	11/07/2011 10:57	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	113086050005A	11/07/2011 10:57	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	113086050005A	11/07/2011 10:57	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	113086050005A	11/07/2011 10:57	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	113015713007	10/31/2011 12:13	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	113081848004	11/06/2011 07:10	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	113086050005	11/06/2011 07:05	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	2	113116050002	11/08/2011 09:23	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	113015713007	10/28/2011 17:53	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11300196903B	10/28/2011 05:29	Ashley M Adams	1

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Sample Description: **FB-SA7-102611 Water**
SSFL Area IV Collocated Soil Sampling
FB-SA7

LLI Sample # WW 6451572
LLI Group # 1273439
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 09:45

Submitted: 10/27/2011 09:25
Reported: 11/20/2011 09:00

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7409 SDG#: DE274-09FB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11300196903B	10/28/2011 05:29	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11307281101A	11/04/2011 07:44	Elyse P Brunstetter	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11300281401A	10/27/2011 11:14	Elyse P Brunstetter	1
08255	16b Cyanide by 9012B	SW-846 9012B	1	11311117101A	11/08/2011 17:33	Venia B McFadden	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11311117101A	11/07/2011 10:00	Nancy J Shoop	1
00200	17b pH by 9040B	SW-846 9040B	1	11300020001A	10/27/2011 21:30	Luz M Groff	1

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273439
Reported: 11/20/11 at 09:00 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: E113001AA	Sample number(s): 6451572									
1,4-Dioxane	0.5	U	0.5	2.0	ug/l	104	104	80-123	1	30
Batch number: Y113052AA	Sample number(s): 6451572									
Acetone	6	U	6.	20	ug/l	67	64	49-234	5	30
Benzene	0.5	U	0.5	5	ug/l	96	97	79-120	1	30
Bromobenzene	1	U	1.	5	ug/l	99	100	80-120	1	30
Bromochloromethane	1	U	1.	5	ug/l	102	103	80-120	1	30
Bromodichloromethane	1	U	1.	5	ug/l	94	94	80-120	0	30
Bromoform	1	U	1.	5	ug/l	90	90	61-120	0	30
Bromomethane	1	U	1.	5	ug/l	80	83	44-120	4	30
2-Butanone	3	U	3.	10	ug/l	82	82	66-151	0	30
n-Butylbenzene	1	U	1.	5	ug/l	98	98	74-120	0	30
sec-Butylbenzene	1	U	1.	5	ug/l	100	101	78-120	1	30
tert-Butylbenzene	1	U	1.	5	ug/l	98	97	80-120	0	30
Carbon Tetrachloride	1	U	1.	5	ug/l	93	95	75-123	2	30
Chlorobenzene	0.8	U	0.8	5	ug/l	98	98	80-120	0	30
Chloroethane	1	U	1.	5	ug/l	69	85	49-129	21	30
2-Chloroethyl Vinyl Ether	2	U	2.	10	ug/l	102	101	56-129	1	30
Chloroform	0.8	U	0.8	5	ug/l	98	99	77-122	1	30
Chloromethane	1	U	1.	5	ug/l	90	95	60-129	6	30
2-Chlorotoluene	1	U	1.	5	ug/l	98	100	80-120	2	30
4-Chlorotoluene	1	U	1.	5	ug/l	96	98	80-120	2	30
Chlorotrifluoroethene	2	U	2.	5	ug/l	69	70	38-136	2	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	92	92	56-126	0	30
Dibromochloromethane	1	U	1.	5	ug/l	94	94	80-120	0	30
1,2-Dibromoethane	1	U	1.	5	ug/l	98	98	80-120	0	30
Dibromomethane	1	U	1.	5	ug/l	97	98	80-120	1	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	99	99	80-120	0	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	98	99	80-120	1	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	98	99	80-120	2	30
Dichlorodifluoromethane	2	U	2.	5	ug/l	87	90	47-120	2	30
1,1-Dichloroethane	1	U	1.	5	ug/l	96	97	79-120	1	30
1,2-Dichloroethane	1	U	1.	5	ug/l	100	100	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	93	95	74-123	1	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	99	99	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	96	98	80-120	2	30
1,2-Dichloropropane	1	U	1.	5	ug/l	95	97	78-120	2	30
1,3-Dichloropropane	1	U	1.	5	ug/l	97	98	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	94	97	77-124	3	30
1,1-Dichloropropene	1	U	1.	5	ug/l	95	97	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	92	95	80-120	3	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	92	93	79-120	1	30
Ethylbenzene	0.8	U	0.8	5	ug/l	96	97	79-120	1	30
Freon 113	2	U	2.	10	ug/l	92	94	69-128	2	30
Freon 133a	2	U	2.	5	ug/l	82	83	77-120	2	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273439
Reported: 11/20/11 at 09:00 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Hexachlorobutadiene	2	U	2.	5	ug/l	90	91	58-120	0	30
2-Hexanone	3	U	3.	10	ug/l	90	92	65-136	2	30
Isopropylbenzene	1	U	1.	5	ug/l	99	99	77-120	0	30
p-Isopropyltoluene	1	U	1.	5	ug/l	100	101	80-120	0	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	97	99	76-120	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	93	94	70-121	1	30
Methylene Chloride	2	U	2.	5	ug/l	97	100	80-120	3	30
n-Propylbenzene	1	U	1.	5	ug/l	101	102	80-120	1	30
Styrene	1	U	1.	5	ug/l	97	97	80-120	0	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	96	96	80-120	0	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	98	99	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	97	99	80-121	2	30
Toluene	0.7	U	0.7	5	ug/l	96	97	79-120	1	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	98	97	65-120	0	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	97	97	67-120	0	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	93	95	75-127	2	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	98	99	80-120	1	30
Trichloroethene	1	U	1.	5	ug/l	95	96	80-120	1	30
Trichlorofluoromethane	2	U	2.	5	ug/l	93	94	64-129	1	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	99	101	80-120	1	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	101	102	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	100	101	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	90	94	65-125	4	30
m+p-Xylene	0.8	U	0.8	5	ug/l	98	99	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	96	98	80-120	1	30
Batch number: 11304SLB026	Sample number(s): 6451564-6451569									
Aniline	170 U		170.	500	ug/kg	65		20-115		
Benzidine	1,200 U		1,200.	3,300	ug/kg	53		15-121		
Benzoic acid	170 U		170.	500	ug/kg	72		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	86		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	107		73-114		
2-butoxy-Ethanol	1,700 U		1,700.	1,700	ug/kg					
Carbazole	17	U	17.	170	ug/kg	99		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	89		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	45		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	95		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	85		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	85		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	92		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	95		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	100		74-115		
Dibenzofuran	17	U	17.	170	ug/kg	99		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	88		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	86		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	86		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	55		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	103		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	93		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	104		83-120		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	90		46-120		

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273439
Reported: 11/20/11 at 09:00 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	77		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	96		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	99		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	90		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	87		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	112		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	99		65-117		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	63		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	79		61-109		
Isophorone	17	U	17.	170	ug/kg	85		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	96		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	89		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	94		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	88		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	66		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	86		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	90		76-111		
4-Nitrophenol	170 U		170.	500	ug/kg	66		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	76		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	106		67-141		
Pentachlorophenol	170 U		170.	500	ug/kg	111		51-117		
Phenol	17	U	17.	170	ug/kg	90		58-112		
2-phenoxy-Ethanol	1,700 U		1,700.	1,700	ug/kg					
Tetralin	170 U		170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	98		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	99		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	101		78-111		
Batch number: 11304SLC026	Sample number(s): 6451564-6451569									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	88		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	88		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	94		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	91		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	93		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	108		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	107		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	96		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	81		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	98		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	95		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	107		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	99		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	99		79-121		
Bis(2-Ethylhexyl)phthalate	8.6	J	6.0	18	ug/kg	95		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	100		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	96		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	106		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	84		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	80		55-118		
Di-n-octylphthalate	22		6.0	18	ug/kg	84		68-162		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273439
Reported: 11/20/11 at 09:00 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Phenanthrene	0.67	U	0.67	1.7	ug/kg	92		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	83		72-119		
Batch number: 11304WAF026	Sample number(s): 6451571-6451572									
Acenaphthene	0.010	U	0.010	0.050	ug/l	91	90	74-109	1	30
Acenaphthylene	0.010	U	0.010	0.050	ug/l	91	90	70-110	1	30
Anthracene	0.010	U	0.010	0.050	ug/l	92	92	66-111	1	30
Benzo(a)anthracene	0.010	U	0.010	0.050	ug/l	93	92	72-114	2	30
Benzo(a)pyrene	0.010	U	0.010	0.050	ug/l	93	92	60-127	1	30
Benzo(b)fluoranthene	0.010	U	0.010	0.050	ug/l	95	95	58-151	0	30
Benzo(g,h,i)perylene	0.010	U	0.010	0.050	ug/l	96	96	57-131	0	30
Benzo(k)fluoranthene	0.010	U	0.010	0.050	ug/l	97	97	59-130	0	30
Butylbenzylphthalate	0.050	U	0.050	1.0	ug/l	94	93	40-138	1	30
Di-n-butylphthalate	0.050	U	0.050	1.0	ug/l	94	98	56-148	4	30
Chrysene	0.010	U	0.010	0.050	ug/l	95	94	76-116	1	30
Dibenz(a,h)anthracene	0.010	U	0.010	0.050	ug/l	94	94	55-134	0	30
Diethylphthalate	0.050	U	0.050	1.0	ug/l	95	94	37-148	1	30
Dimethylphthalate	0.050	U	0.050	1.0	ug/l	94	94	40-119	0	30
Bis(2-Ethylhexyl)phthalate	0.11	J	0.050	1.0	ug/l	119	124	57-154	5	30
Fluoranthene	0.010	U	0.010	0.050	ug/l	92	93	75-116	1	30
Fluorene	0.010	U	0.010	0.050	ug/l	96	94	75-114	1	30
Indeno(1,2,3-cd)pyrene	0.010	U	0.010	0.050	ug/l	94	94	53-158	0	30
1-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	89	88	71-117	1	30
2-Methylnaphthalene	0.010	U	0.010	0.050	ug/l	88	87	75-115	2	30
Naphthalene	0.030	U	0.030	0.050	ug/l	91	90	72-109	1	30
N-Nitrosodimethylamine	0.010	U	0.010	0.050	ug/l	65	65	36-89	0	30
Di-n-octylphthalate	0.050	U	0.050	1.0	ug/l	95	97	57-145	2	30
Phenanthrene	0.030	U	0.030	0.050	ug/l	91	91	76-111	0	30
Pyrene	0.010	U	0.010	0.050	ug/l	94	92	69-118	2	30
Batch number: 11305WAA026	Sample number(s): 6451572									
N-Nitrosodimethylamine	0.500	U	0.500	1.00	ng/l	93	95	70-130	2	30
Batch number: 11306WAA026	Sample number(s): 6451571-6451572									
Aniline	1	U	1.	5	ug/l	75	76	38-116	1	30
Benzidine	20	U	20.	60	ug/l	69	64	34-117	7	30
Benzoic acid	6	U	6.	15	ug/l	22	26	10-69	18	30
Benzyl alcohol	5	U	5.	15	ug/l	84	83	66-97	1	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	91	95	75-115	4	30
2-butoxy-Ethanol	50	U	50.	50	ug/l					
Carbazole	1	U	1.	5	ug/l	98	100	75-120	2	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	102	104	70-123	2	30
4-Chloroaniline	1	U	1.	5	ug/l	65	61	24-128	7	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	92	96	74-124	5	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	92	100	77-108	8	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	89	95	62-127	7	30
2-Chloronaphthalene	2	U	2.	5	ug/l	73	75	54-132	4	30
2-Chlorophenol	1	U	1.	5	ug/l	99	101	71-114	2	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	95	101	77-114	6	30
Dibenzofuran	1	U	1.	5	ug/l	92	97	75-117	5	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	83	85	55-118	2	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	82	84	61-111	3	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	83	85	53-119	3	30
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	55	59	37-117	7	30
2,4-Dichlorophenol	1	U	1.	5	ug/l	102	103	77-117	1	30
2,4-Dimethylphenol	3	U	3.	10	ug/l	97	101	72-110	4	30
3,5-Dimethylphenol	3	U	3.	10	ug/l	100	102	70-130	2	30
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	98	102	65-126	4	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273439
Reported: 11/20/11 at 09:00 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-Dinitrophenol	10	U	10.	30	ug/l	84	97	52-131	15	30
2,4-Dinitrotoluene	1	U	1.	5	ug/l	106	110	76-119	4	30
2,6-Dinitrotoluene	1	U	1.	5	ug/l	103	107	76-118	4	30
1,2-Diphenylhydrazine	1	U	1.	5	ug/l	97	101	68-127	4	30
Hexachlorobenzene	1	U	1.	5	ug/l	90	93	75-119	3	30
Hexachlorobutadiene	1	U	1.	5	ug/l	83	82	57-124	1	30
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	63	66	36-118	5	30
Hexachloroethane	1	U	1.	5	ug/l	80	81	52-113	1	30
Isophorone	1	U	1.	5	ug/l	97	100	74-117	4	30
2-Methylphenol	1	U	1.	5	ug/l	93	95	58-110	2	30
4-Methylphenol	2	U	2.	5	ug/l	91	92	49-108	1	30
2-Nitroaniline	1	U	1.	5	ug/l	102	109	75-120	7	30
3-Nitroaniline	1	U	1.	5	ug/l	101	105	74-113	5	30
4-Nitroaniline	1	U	1.	5	ug/l	82	87	59-100	6	30
Nitrobenzene	1	U	1.	5	ug/l	94	100	75-109	5	30
2-Nitrophenol	1	U	1.	5	ug/l	97	99	76-118	2	30
4-Nitrophenol	10	U	10.	30	ug/l	45	45	16-78	2	30
N-Nitroso-di-n-propylamine	1	U	1.	5	ug/l	94	99	69-110	5	30
N-Nitrosodiphenylamine	2	U	2.	5	ug/l	94	96	67-136	2	30
Pentachlorophenol	3	U	3.	15	ug/l	90	96	53-110	6	30
Phenol	1	U	1.	5	ug/l	51	46	21-67	9	30
2-phenoxy-Ethanol	50	U	50.	50	ug/l					
Tetralin	5	U	5.	5	ug/l					
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	86	88	71-112	2	30
2,4,5-Trichlorophenol	1	U	1.	5	ug/l	96	98	79-107	3	30
2,4,6-Trichlorophenol	1	U	1.	5	ug/l	100	103	76-120	3	30
Batch number: 11299A16B	Sample number(s): 6451568									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	74	75	67-119	2	30
Batch number: 11304A20A	Sample number(s): 6451570,6451572									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 113040017A	Sample number(s): 6451572									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	110	110	80-120	0	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	50-122	0	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	50-122	0	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	110	110	72-117	0	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	98	98	80-120	0	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	110	110	80-120	0	30
HMX	0.65	U	0.65	2.0	ug/l	99	100	65-125	1	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	89	93	75-121	4	30
Nitroglycerin	5.2	U	5.2	15	ug/l	100	100	80-120	0	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	97	96	74-120	1	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	100	100	69-107	0	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	95	94	80-120	1	30
PETN	6.0	U	6.0	18	ug/l	104	104	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	97	96	70-125	1	30
Tetryl	0.40	U	0.40	0.60	ug/l	89	78	31-148	13	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	100	91	53-129	9	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	76-109	0	30
Batch number: 113000025A	Sample number(s): 6451572									
20b Formaldehyde 8315A	10	U	10.	50	ug/l	98	100	69-130	2	30
Batch number: 113020010A	Sample number(s): 6451572									
2,4-D	0.16	U	0.16	0.50	ug/l	132	112	73-157	16	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273439
Reported: 11/20/11 at 09:00 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dalapon	0.25	U	0.25	1.3	ug/l	86	76	40-100	12	30
2,4-DB	0.30	U	0.30	1.0	ug/l	108	92	65-130	16	30
Dicamba	0.080	U	0.080	0.30	ug/l	104	92	68-135	12	30
Dinoseb	0.10	U	0.10	0.50	ug/l	74	72	32-91	3	30
2,4-DP (Dichlorprop)	0.16	U	0.16	0.50	ug/l	132	120	76-170	10	30
MCPA	300 U		300.	1,000	ug/l	100	90	65-128	11	30
MCPP	50	U	50.	200	ug/l	100	96	67-137	4	30
2,4,5-T	0.015	U	0.015	0.050	ug/l	128	116	63-147	10	30
2,4,5-TP	0.010	U	0.010	0.050	ug/l	104	92	63-134	12	30
Batch number: 113060017A	Sample number(s): 6451567									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	104		85-115		
Batch number: 113010003A	Sample number(s): 6451564-6451569									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	70	68	36-106	3	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	80		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	95		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 113050018A	Sample number(s): 6451571-6451572									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	82	78	35-84	5	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	104	98	51-128	6	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.15	U	0.15	0.50	ug/l	106	108	56-135	2	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 113050028A	Sample number(s): 6451572									
Aldrin	0.0020	U	0.0020	0.010	ug/l	100	97	54-159	3	30
Alpha BHC	0.0030	U	0.0030	0.010	ug/l	110	100	59-146	10	30
Beta BHC	0.0029	U	0.0029	0.010	ug/l	103	101	73-147	2	30
Gamma BHC - Lindane	0.0020	U	0.0020	0.010	ug/l	110	100	68-128	10	30
Chlordane	0.12	U	0.12	0.50	ug/l					
p,p-DDD	0.0050	U	0.0050	0.020	ug/l	115	105	71-139	9	30
p,p-DDE	0.0050	U	0.0050	0.020	ug/l	116	111	66-130	5	30
p,p-DDT	0.0050	U	0.0050	0.020	ug/l	105	100	53-126	5	30
Delta BHC	0.0029	U	0.0029	0.010	ug/l	113	113	76-148	0	30
Dieldrin	0.0053	U	0.0053	0.020	ug/l	110	100	76-132	10	30
Endosulfan I	0.0043	U	0.0043	0.010	ug/l	110	100	68-128	10	30
Endosulfan II	0.015	U	0.015	0.020	ug/l	110	105	59-144	5	30
Endosulfan Sulfate	0.0058	U	0.0058	0.020	ug/l	105	100	71-142	5	30
Endrin	0.0081	U	0.0081	0.020	ug/l	105	100	52-132	5	30
Endrin Aldehyde	0.020	U	0.020	0.10	ug/l	105	95	68-139	10	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273439
Reported: 11/20/11 at 09:00 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Endrin Ketone	0.0050	U	0.0050	0.020	ug/l	100	100	69-146	0	30
Heptachlor	0.0026	U	0.0026	0.010	ug/l	100	99	57-126	1	30
Heptachlor Epoxide	0.0023	U	0.0023	0.010	ug/l	112	102	73-156	10	30
Methoxychlor	0.030	U	0.030	0.10	ug/l	110	100	52-133	10	30
Mirex	0.085	U	0.085	0.25	ug/l					
Toxaphene	1.0	U	1.0	3.0	ug/l					
Batch number: 113040032A	Sample number(s): 6451572									
Diethylene glycol	20	U	20.	200	mg/l	105	115	67-126	9	20
Ethylene glycol	20	U	20.	200	mg/l	85	110	78-136	26*	20
Propylene glycol	20	U	20.	200	mg/l	80	110	65-132	32*	20
Batch number: 113040033A	Sample number(s): 6451568									
Ethanol	100 U		100.	500	ug/kg	93		71-129		
Isopropanol	100 U		100.	500	ug/kg	90		75-125		
Methanol	100 U		100.	500	ug/kg	106		68-129		
Batch number: 113060028A	Sample number(s): 6451569									
Ethanol	100 U		100.	500	ug/kg	92		71-129		
Isopropanol	100 U		100.	500	ug/kg	90		75-125		
Methanol	100 U		100.	500	ug/kg	95		68-129		
Batch number: 113070034A	Sample number(s): 6451572									
Ethanol	200 U		200.	1,000	ug/l	100		78-116		
Isopropanol	200 U		200.	1,000	ug/l	100		75-125		
Methanol	200 U		200.	1,000	ug/l	116		76-122		
Batch number: 113080023A	Sample number(s): 6451568-6451569									
Diethylene glycol	5.0	U	5.0	10	mg/kg	99		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	103		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	96		67-131		
Triethylene glycol	5.0	U	5.0	10	mg/kg	97		52-150		
Batch number: 113040007A	Sample number(s): 6451572									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	106	108	63-121	2	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	105	105	72-124	0	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	100	100	64-123	0	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	93	93	73-124	0	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	140*	142*	43-107	1	30
Batch number: 113040009A	Sample number(s): 6451572									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	90	98	61-108	9	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	90	98	75-125	9	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	90	98	63-110	8	20
Batch number: 113060014A	Sample number(s): 6451568-6451569									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	105		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	107		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	107		69-109		

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Quality Control Summary

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Reported: 11/20/11 at 09:00 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 113070014A	Sample number(s): 6451568-6451569									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	123		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	112		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	117		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	91		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	142*		49-107		
Batch number: 113001026002A	Sample number(s): 6451564-6451569									
Antimony	0.0740	U	0.0740	0.200	mg/kg	119		40-227		
Arsenic	0.0800	U	0.0800	0.400	mg/kg	99		83-111		
Beryllium	0.0160	U	0.0160	0.100	mg/kg	107		84-112		
Cadmium	0.0440	U	0.0440	0.100	mg/kg	101		83-111		
Chromium	0.120	U	0.120	0.400	mg/kg	117		77-123		
Cobalt	0.0200	U	0.0200	0.100	mg/kg	113		85-114		
Copper	0.0800	U	0.0800	0.400	mg/kg	102		81-110		
Lead	0.0102	U	0.0102	0.200	mg/kg	101		84-112		
Nickel	0.100	U	0.100	0.400	mg/kg	100		81-110		
Silver	0.0142	U	0.0142	0.100	mg/kg	102		83-112		
Thallium	0.0300	U	0.0300	0.100	mg/kg	102		82-112		
Vanadium	0.0220	U	0.0220	0.100	mg/kg	106		76-110		
Zinc	0.560	U	0.560	3.00	mg/kg	103		82-110		
Batch number: 113001026002B	Sample number(s): 6451564-6451569									
Selenium	0.0580	U	0.0580	0.400	mg/kg	101		79-110		
Batch number: 113001026002C	Sample number(s): 6451564-6451569									
Molybdenum	0.0500	U	0.0500	0.100	mg/kg	101		80-110		
Batch number: 113001026002D	Sample number(s): 6451564-6451569									
Barium	0.106	U	0.106	0.400	mg/kg	100		83-110		
Batch number: 113005708002	Sample number(s): 6451564-6451569									
Aluminum	6.05	U	6.05	20.0	mg/kg	95		40-127		
Boron	0.360	U	0.360	5.00	mg/kg	102		83-110		
Calcium	5.91	J	2.50	20.0	mg/kg	104		81-110		
Iron	2.61	U	2.61	20.0	mg/kg	98		47-129		
Lithium	0.62	U	0.62	2.0	mg/kg	100		80-120		
Magnesium	0.440	U	0.440	10.0	mg/kg	96		63-116		
Manganese	0.0360	U	0.0360	0.500	mg/kg	104		85-116		
Phosphorus	0.977	J	0.350	10.0	mg/kg	104		80-120		
Potassium	11.3	U	11.3	50.0	mg/kg	107		71-110		
Sodium	5.95	U	5.95	100	mg/kg	105		76-110		
Strontium	0.0370	J	0.0250	0.500	mg/kg	103		84-110		
Tin	1.16	J	0.320	10.0	mg/kg	101		86-120		
Titanium	0.0710	U	0.0710	1.00	mg/kg	119		80-120		
Zirconium	0.460	U	0.460	5.00	mg/kg	102		80-120		
Batch number: 113005711002	Sample number(s): 6451564-6451569									
Mercury	0.0068	U	0.0068	0.0973	mg/kg	104		83-119		
Batch number: 113015713007	Sample number(s): 6451571-6451572									
Mercury	0.000026 U		0.00002 6	0.00020	mg/l	98	97	80-120	1	20
Batch number: 113081848004	Sample number(s): 6451571-6451572									
Aluminum	0.0801	U	0.0801	0.200	mg/l	98	100	90-112	3	20
Boron	0.0028	J	0.0022	0.0500	mg/l	91	93	89-110	2	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273439
Reported: 11/20/11 at 09:00 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Calcium	0.0705 U	0.0705	0.200	mg/l	102	103	90-110	2	20
Iron	0.0141 U	0.0141	0.200	mg/l	101	105	90-112	4	20
Lithium	0.0076 U	0.0076	0.0200	mg/l	99	101	90-110	2	20
Magnesium	0.0067 U	0.0067	0.100	mg/l	99	101	90-110	2	20
Manganese	0.00044 U	0.00044	0.0050	mg/l	99	101	90-110	2	20
Phosphorus	0.0047 U	0.0047	0.100	mg/l	99	101	90-110	2	20
Potassium	0.0874 U	0.0874	0.500	mg/l	100	103	85-115	3	20
Sodium	0.0647 U	0.0647	1.00	mg/l	98	100	87-114	1	20
Strontium	0.00022 U	0.00022	0.0050	mg/l	99	102	90-110	2	20
Tin	0.0043 U	0.0043	0.0200	mg/l	96	97	90-110	1	20
Titanium	0.00046 U	0.00046	0.0100	mg/l	101	101	90-113	1	20
Zirconium	0.0042 U	0.0042	0.0500	mg/l	103	105	90-110	1	20
Batch number: 113086050005A	Sample number(s): 6451571-6451572								
Arsenic	0.00095 U	0.00095	0.0020	mg/l	106	110	86-111	3	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	110	110	90-113	0	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	108	110	90-114	2	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	108	110	90-118	2	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	105	108	87-113	3	20
Copper	0.00038 U	0.00038	0.0020	mg/l	107	108	90-113	1	20
Lead	0.000080 U	0.00008 0	0.0010	mg/l	107	106	90-115	2	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	103	110	90-113	7	20
Silver	0.000098 U	0.00009 8	0.00050	mg/l	106	109	90-115	3	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	106	109	89-116	3	20
Vanadium	0.00018 U	0.00018	0.00050	mg/l	109	106	89-116	3	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	102	102	90-116	0	20
Batch number: 113086050005C	Sample number(s): 6451571-6451572								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	107	112	89-115	5	20
Batch number: 113086050005D	Sample number(s): 6451571-6451572								
Barium	0.00069 U	0.00069	0.0020	mg/l	107	112	88-113	4	20
Batch number: 113116050002A	Sample number(s): 6451571-6451572								
Antimony	0.00042 U	0.00042	0.0010	mg/l	109	108	87-110	1	20
Batch number: 113116050002B	Sample number(s): 6451571-6451572								
Selenium	0.00027 U	0.00027	0.0020	mg/l	107	113	85-114	6	20
Batch number: 11300196903B	Sample number(s): 6451572								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	105	105	90-110	0	20
11b Anions by 300.0 - Nitrate	0.050 U	0.050	0.10	mg/l	104	103	90-110	0	20
Batch number: 11300281401A	Sample number(s): 6451571-6451572								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	100	100	90-110	0	20
Batch number: 11307281101A	Sample number(s): 6451571-6451572								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	106	100	85-115	6	20
Batch number: 11308621201A	Sample number(s): 6451564-6451569								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	104		85-115		
Batch number: 11311117101A	Sample number(s): 6451572								
16b Cyanide by 9012B	0.0050 U	0.0050	0.010	mg/l	99	99	90-110	0	20
Batch number: 11311196603B	Sample number(s): 6451571								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273439
Reported: 11/20/11 at 09:00 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
11b Anions by 300.0 - Fluoride	0.080	U	0.080	0.10	mg/l	102	102	90-110	0	20
Batch number: 11312102202A	Sample number(s): 6451568-6451569									
16a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	105		80-120		
Batch number: 11312243201A	Sample number(s): 6451564-6451569									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	81		80-120		
Batch number: 11312621202A	Sample number(s): 6451564-6451569									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	104		90-110		
Batch number: 11300020001A	Sample number(s): 6451571-6451572									
17b pH by 9040B						100	100	90-110	0	3
Batch number: 11311039401A	Sample number(s): 6451564-6451569									
17a pH by 9045C						100		95-105		
Batch number: 11311162401A	Sample number(s): 6451564-6451569									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11304SLB026	Sample number(s): 6451564-6451569 UNSPK: 6451564								
Aniline	52	61	18-116	17	30				
Benzidine	0*	0*	35-141	0	30				
Benzoic acid	60	58	10-173	2	30				
Benzyl alcohol	80	82	67-115	3	30				
4-Bromophenyl-phenylether	108	106	67-129	1	30				
Carbazole	103	101	64-120	1	30				
4-Chloro-3-methylphenol	85	84	62-122	0	30				
4-Chloroaniline	42	61	13-107	37*	30				
bis(2-Chloroethoxy)methane	90	90	75-104	1	30				
bis(2-Chloroethyl)ether	83	81	60-116	1	30				
bis(2-Chloroisopropyl)ether	80	80	55-142	1	30				
2-Chloronaphthalene	94	84	50-141	10	30				
2-Chlorophenol	90	92	73-121	3	30				
4-Chlorophenyl-phenylether	100	100	80-109	1	30				
Dibenzofuran	98	99	71-112	1	30				
1,2-Dichlorobenzene	85	83	66-108	2	30				
1,3-Dichlorobenzene	82	81	63-109	1	30				
1,4-Dichlorobenzene	81	80	58-108	1	30				
3,3'-Dichlorobenzidine	44	55	28-109	24	30				
2,4-Dichlorophenol	98	101	66-123	4	30				
2,4-Dimethylphenol	86	87	68-118	2	30				
3,5-Dimethylphenol	98	101	71-127	4	30				
4,6-Dinitro-2-methylphenol	83	85	11-126	3	30				
2,4-Dinitrophenol	57	58	20-143	2	30				
2,4-Dinitrotoluene	94	96	56-129	2	30				
2,6-Dinitrotoluene	99	100	69-123	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273439
Reported: 11/20/11 at 09:00 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2-Diphenylhydrazine	91	89	71-129	1	30				
bis(2-Ethylhexyl)phthalate	92	92	63-122	1	30				
Hexachlorobenzene	114	111	77-114	2	30				
Hexachlorobutadiene	95	94	62-120	1	30				
Hexachlorocyclopentadiene	104	101	10-153	2	30				
Hexachloroethane	76	74	57-109	2	30				
Isophorone	80	81	73-102	2	30				
2-Methylphenol	87	90	75-111	3	30				
4-Methylphenol	81	83	59-123	3	30				
2-Nitroaniline	95	95	67-125	1	30				
3-Nitroaniline	89	91	59-122	3	30				
4-Nitroaniline	75	76	41-109	1	30				
Nitrobenzene	82	83	57-125	1	30				
2-Nitrophenol	85	90	56-127	6	30				
4-Nitrophenol	69	70	37-129	2	30				
N-Nitroso-di-n-propylamine	70	70	60-116	0	30				
N-Nitrosodiphenylamine	104	102	71-122	2	30				
Pentachlorophenol	114	112	28-127	1	30				
Phenol	83	85	58-126	2	30				
1,2,4-Trichlorobenzene	97	95	72-115	1	30				
2,4,5-Trichlorophenol	101	102	58-129	2	30				
2,4,6-Trichlorophenol	103	103	56-134	1	30				
Batch number: 11304SLC026	Sample number(s): 6451564-6451569 UNSPK: 6451564								
Acenaphthene	92	90	63-105	3	30				
Acenaphthylene	90	91	67-114	1	30				
Anthracene	94	96	73-115	1	30				
Benzo(a)anthracene	97	96	59-128	1	30				
Benzo(a)pyrene	94	95	58-142	0	30				
Benzo(b)fluoranthene	104	104	54-163	0	30				
Benzo(g,h,i)perylene	86	84	33-141	2	30				
Benzo(k)fluoranthene	88	89	57-153	0	30				
Butylbenzylphthalate	87	87	57-173	0	30				
Di-n-butylphthalate	98	102	65-148	4	30				
Chrysene	95	95	67-123	0	30				
Dibenz(a,h)anthracene	95	94	22-133	1	30				
Diethylphthalate	94	123	70-136	26	30				
Dimethylphthalate	100	100	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	98	144	39-167	33*	30				
Fluoranthene	105	109	51-149	3	30				
Fluorene	95	95	66-122	0	30				
Indeno(1,2,3-cd)pyrene	93	91	21-143	2	30				
1-Methylnaphthalene	83	86	72-123	3	30				
2-Methylnaphthalene	83	86	64-103	4	30				
Naphthalene	86	92	61-102	6	30				
N-Nitrosodimethylamine	85	90	48-113	4	30				
Di-n-octylphthalate	90	92	40-192	2	30				
Phenanthrene	92	92	62-122	0	30				
Pyrene	71	72	51-131	0	30				
Batch number: 113060017A	Sample number(s): 6451567 UNSPK: 6451567								
6a Perchlorate EPA 6850	114	104	80-120	9	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273439
Reported: 11/20/11 at 09:00 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 113010003A	Sample number(s): 6451564-6451569 UNSPK: P437195								
PCB-1016	80	81	29-146	1	50				
PCB-1260	86	87	39-149	1	50				
Batch number: 113040033A	Sample number(s): 6451568 UNSPK: 6451568								
Ethanol	88	87	48-130	0	20				
Isopropanol	86	87	12-149	1	20				
Methanol	107	103	43-138	5	20				
Batch number: 113060028A	Sample number(s): 6451569 UNSPK: 6451569								
Ethanol	90	83	48-130	9	20				
Isopropanol	92	87	12-149	6	20				
Methanol	92	89	43-138	3	20				
Batch number: 113070034A	Sample number(s): 6451572 UNSPK: P453096								
Ethanol	104	104	62-145	0	20				
Isopropanol	100	100	73-131	0	20				
Methanol	116	116	52-159	0	20				
Batch number: 113080023A	Sample number(s): 6451568-6451569 UNSPK: P454453								
Diethylene glycol	3*	4*	59-109	4	20				
Ethylene glycol	39*	39*	63-107	0	20				
Propylene glycol	56*	56*	63-107	1	20				
Triethylene glycol	0*	0*	66-122	0	20				
Batch number: 113060014A	Sample number(s): 6451568-6451569 UNSPK: 6451568								
m-Terphenyl	107	105	75-125	2	20				
o-Terphenyl	109	106	75-125	2	20				
p-Terphenyl	109	106	75-125	2	20				
Batch number: 113070014A	Sample number(s): 6451568-6451569 UNSPK: 6451568								
EFH (C12-C14)	89	88	49-123	1	20				
EFH (C15-C20)	104	101	49-123	2	20				
EFH (C21-C30)	133*	112	49-123	8	20				
EFH (C30 - C40)	-54*	-67*	49-123	5	20				
EFH (C8-C11)	74	71	49-123	3	20				
Batch number: 113001026002A	Sample number(s): 6451564-6451569 UNSPK: 6451564 BKG: 6451564								
Antimony	55*	50*	75-125	8	20	0.156 J	0.132 J	17 (1)	20
Arsenic	134*	99	75-125	9	20	5.73	5.36	7	20
Beryllium	132*	118	75-125	7	20	0.646	0.666	3	20
Cadmium	128*	110	75-125	14	20	0.192	0.183	5 (1)	20
Chromium	124	95	75-125	8	20	23.1	22.8	1	20
Cobalt	142*	123	75-125	13	20	7.93	7.98	1	20
Copper	136*	109	75-125	11	20	11.1	11.2	1	20
Lead	140*	109	75-125	10	20	5.28	5.34	1	20
Nickel	145*	109	75-125	13	20	15.2	15.3	1	20
Silver	125	112	75-125	11	20	0.0382 J	0.0492 J	25* (1)	20
Thallium	109	91	75-125	9	20	0.387	0.305	24* (1)	20
Vanadium	126 (2)	85 (2)	75-125	7	20	47.0	46.7	1	20
Zinc	150 (2)	85 (2)	75-125	9	20	61.8	63.6	3	20
Batch number: 113001026002B	Sample number(s): 6451564-6451569 UNSPK: 6451564 BKG: 6451564								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273439
Reported: 11/20/11 at 09:00 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Selenium	127*	115	75-125	9	20	0.171 J	0.149 J	14 (1)	20
Batch number: 113001026002C	Sample number(s): 6451564-6451569 UNSPK: 6451564 BKG: 6451564								
Molybdenum	130*	114	75-125	13	20	0.575	0.508	12	20
Batch number: 113001026002D	Sample number(s): 6451564-6451569 UNSPK: 6451564 BKG: 6451564								
Barium	186 (2)	-6 (2)	75-125	15	20	120	121	1	20
Batch number: 113005708002	Sample number(s): 6451564-6451569 UNSPK: P439922 BKG: P439922								
Aluminum	2845 (2)	2727 (2)	75-125	1	20	31,300	31,800	2	20
Boron	99	97	84-115	4	20	11.0	11.3	3 (1)	20
Calcium	312 (2)	238 (2)	75-125	3	20	9,470	10,200	7	20
Iron	-907 (2)	699 (2)	75-125	5	20	32,900	31,300	5	20
Lithium	101	102	82-114	2	20	28.1	28.0	0	20
Magnesium	158 (2)	231 (2)	75-125	2	20	7,710	7,640	1	20
Manganese	77 (2)	91 (2)	75-125	1	20	320	316	1	20
Phosphorus	97	107	75-125	2	20	262	257	2	20
Potassium	142*	149*	75-125	1	20	3,630	3,610	1	20
Sodium	97	97	75-125	2	20	120	118	2 (1)	20
Strontium	101	98	75-115	4	20	41.9	42.4	1	20
Tin	88	87	80-110	4	20	2.57 J	2.63 J	2 (1)	20
Titanium	367 (2)	432 (2)	75-125	3	20	1,600	1,620	2	20
Zirconium	95	95	81-110	3	20	5.22	5.90	12 (1)	20
Batch number: 113005711002	Sample number(s): 6451564-6451569 UNSPK: 6451564 BKG: 6451564								
Mercury	99	101	65-135	1	20	0.0067 U	0.0069 U	0 (1)	20
Batch number: 11308621201A	Sample number(s): 6451564-6451569 UNSPK: 6451564 BKG: 6451564								
7a Perchlorate EPA 314.0	113		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11312102202A	Sample number(s): 6451568-6451569 UNSPK: 6451568 BKG: 6451568								
16a Cyanide by 9012B	106		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11312243201A	Sample number(s): 6451564-6451569 UNSPK: 6451564 BKG: 6451564								
3a Cr VI by EPA 7199	98		75-125			0.43 J	0.47 J	10 (1)	20
Batch number: 11312621202A	Sample number(s): 6451564-6451569 UNSPK: 6451564 BKG: 6451564								
11a Anions by 300.0 - Fluoride	73*		80-120			0.80 U	0.80 U	0 (1)	20
Batch number: 11311039401A	Sample number(s): 6451564-6451569 BKG: 6451564								
17a pH by 9045C						6.66	6.67	0	3
Batch number: 11311162401A	Sample number(s): 6451564-6451569 BKG: 6451565								
Moisture Content by 160.3						8.7	9.3	7	20

Surrogate Quality Control

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273439
Reported: 11/20/11 at 09:00 AM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E113001AA

	Toluene-d8
6451572	98
Blank	99
LCS	99
LCSD	99
Limits:	80-120

Analysis Name: 1b Volatile Organics EPA8260B
Batch number: Y113052AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6451572	102	102	99	94
Blank	103	101	98	92
LCS	102	103	101	101
LCSD	101	104	100	100
Limits:	86-118	80-120	88-110	86-115

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11304SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6451564	83	95	106	77	99	112
6451565	63	71	90	60	76	87
6451566	82	93	116	77	101	116
6451567	78	87	105	71	91	110
6451568	87	96	113	78	96	116
6451569	88	96	111	77	98	116
Blank	81	92	104	77	99	117
LCS	92	100	111	80	101	115
MS	85	95	112	78	101	116
MSD	87	95	112	78	102	117
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11304SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6451564	95	85	68
6451565	90	84	67
6451566	91	86	68
6451567	92	85	70
6451568	94	88	72
6451569	92	85	66
Blank	87	83	88
LCS	87	83	78
MS	89	87	73
MSD	91	86	67

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273439
Reported: 11/20/11 at 09:00 AM

Surrogate Quality Control

Limits: 40-130 45-130 45-135

Analysis Name: 4b Select SVOC EPA 8270SIM
Batch number: 11304WAF026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6451571	116	87	96
6451572	90	86	93
Blank	91	85	91
LCS	92	84	87
LCSD	92	84	84
Limits:	40-130	45-130	45-135

Analysis Name: 21b. NDMA in Water
Batch number: 11305WAA026

	N-Nitrosodimethylamine-d6
6451572	138
Blank	119
LCS	120
LCSD	118
Limits:	50-150

Analysis Name: 5b Semivolatiles by EPA 8270C
Batch number: 11306WAA026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6451571	56	35	82	87	82	94
6451572	59	38	83	91	86	92
Blank	50	30	85	90	85	93
LCS	63	42	83	88	83	91
LCSD	61	38	86	92	88	91
Limits:	20-130	20-120	30-130	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11299A16B

	Trifluorotoluene-F
6451568	83
Blank	96
LCS	89
LCSD	93
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11304A20A

	Trifluorotoluene-F
6451570	87
6451572	89
Blank	88
LCS	114

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273439
Reported: 11/20/11 at 09:00 AM

Surrogate Quality Control

LCSD 112

Limits: 63-135

Analysis Name: 20b Formaldehyde 8315A
Batch number: 113000025A

	Butyraldehyde
6451572	92
Blank	90
LCS	90
LCSD	87
Limits:	45-145

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 113010003A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6451564	85	93
6451565	97	100
6451566	86	86
6451567	96	100
6451568	92	89
6451569	98	91
Blank	81	94
LCS	84	95
LCSD	90	96
MS	88	86
MSD	90	86
Limits:	53-139	45-120

Analysis Name: 13b Herbicides by EPA 8151
Batch number: 113020010A

	2,4-Dichlorophenylacetic acid
6451572	89
Blank	99
LCS	121
LCSD	106
Limits:	35-144

Analysis Name: 15b Energetics by 8330A
Batch number: 113040017A

	2-Nitro-m-xylene
6451572	93
Blank	93
LCS	92
LCSD	92
Limits:	50-134

Analysis Name: 8b PCBs/PCTs by 8082

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273439
Reported: 11/20/11 at 09:00 AM

Surrogate Quality Control

Batch number: 113050018A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6451571	110	98
6451572	115	114
Blank	103	106
LCS	111	101
LCSD	111	102
Limits:	30-150	45-120

Analysis Name: 12b Pesticides by 8081A
Batch number: 113050028A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6451572	101	110
Blank	91	94
LCS	101	100
LCSD	98	90
Limits:	52-141	40-144

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 113040007A

	Chlorobenzene	Orthoterphenyl
6451572	92	82
Blank	89	80
LCS	89	95
LCSD	94	96
Limits:	28-152	52-131

Analysis Name: 22b Terphenyls by 8015B
Batch number: 113040009A

	n-Triacontane-d62
6451572	68
Blank	59
LCS	67
LCSD	72
Limits:	17-138

Analysis Name: 19b Glycols by 8015B
Batch number: 113040032A

	Tetramethylene glycol
6451572	101
Blank	107
LCS	105
LCSD	112
Limits:	29-157

Analysis Name: 18a Alcohols by 8015B
Batch number: 113040033A

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273439
Reported: 11/20/11 at 09:00 AM

Surrogate Quality Control

Analysis Name: 22a Terphenyls by 8015B
Batch number: 113060014A

	Acetone
6451568	89
Blank	93
LCS	92
MS	89
MSD	89
Limits:	42-138

Analysis Name: 22a Terphenyls by 8015B
Batch number: 113060014A

	n-Triacontane-d62
6451568	83
6451569	84
Blank	78
LCS	93
MS	84
MSD	80
Limits:	19-152

Analysis Name: 18a Alcohols by 8015B
Batch number: 113060028A

	Acetone
6451569	88
Blank	88
LCS	89
MS	91
MSD	87
Limits:	42-138

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 113070014A

	Chlorobenzene	Orthoterphenyl
6451568	103	92
6451569	98	93
Blank	93	81
LCS	90	98
MS	91	93
MSD	90	90
Limits:	37-125	47-145

Analysis Name: 18b Alcohols by 8015B
Batch number: 113070034A

	Acetone
6451572	95
Blank	94
LCS	100
MS	102
MSD	104

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273439
Reported: 11/20/11 at 09:00 AM

Surrogate Quality Control

Limits: 54-147

Analysis Name: 19a Glycols by 8015B
Batch number: 113080023A

	Tetramethylene glycol
6451568	90
6451569	90
Blank	99
LCS	99
MS	88
MSD	87

Limits: 29-137

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cp# 1273439 Sample# 64515G4-72

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS										CONDARY FOR ALL LOCATIO						Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.						*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 8550 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowanol EPA 8270	
Samplers Signatures:																						
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																	
SL-033-SA7-SB-4.0-5.0	10.24.11	1340	SOIL	NONE	1 SS sleeve			X	X													
SL-033-SA7-SB-4.0-5.0	10.24.11	1340	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X									
SL-033-SA7-SB-9.0-10.0	10.24.11	1405	SOIL	NONE	1 SS sleeve			X	X													
SL-033-SA7-SB-9.0-10.0	10.24.11	1405	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X									
SL-038-SA7-SB-4.0-5.0	10.24.11	1055	SOIL	NONE	1 SS sleeve			X	X													
SL-038-SA7-SB-4.0-5.0	10.24.11	1055	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X									
SL-082-SA7-SB-4.0-5.0	10.25.11	0900	SOIL	NONE	1-SS Sleeve			X	X													
SL-082-SA7-SB-4.0-5.0	10.25.11	0900	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X								
SL-086-SA7-SB-3.5	10.26.11	1508	SOIL	NONE	2 Encores										X							
SL-086-SA7-SB-3.0-4.0	10.26.11	1500	SOIL	NONE	1-SS sleeve			X	X													
SL-086-SA7-SB-3.0-4.0	10.26.11	1500	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	
SL-057-SA7-SB-2.5-3.5	10.26.11	1500	SOIL	NONE	1-16 oz Jar	X	X	X	X	X	X	X	X									Was not able to collect sleeve
TB-102611	10.26.11	1430	WATER	NONE	2-40 mL Vials										X							
Relinquished by: (Signature)	Date/Time 10/26/2011 / 1630		Received for Laboratory by: (Signature)																			Laboratory: Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time		Airbill No.(s) 8754 3341 0770; 8754 3341 0781 8754 3341 0792																			LLI 10/27/11 0925

Subsurface HA 7

Acct# 13013 Qp# 1273439 Sample# 6451564-72

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING	PRIMARY FOR ALL LOCATIONS							SS ONLY		VOCs			SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels § Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected For samples collected from Subareas 4 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.		*Metals EPA 6010B/7000B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7196	*pH EPA 9045C/9040B	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260B/M $	TPH-GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dioxins/Furans EPA 8290	
Samplers - Signatures:																							
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																		
EB-SA7-SB-102611	10/26/11	0730	WATER	NONE	5-1 liter ambers			X	X	X													X	
EB-SA7-SB-102611	10/26/11	0730	WATER	NONE	1-500 mL poly		X				X	X	X											
EB-SA7-SB-102611	10/26/11	0730	WATER	HNO3	1-500 mL poly	X																		
FB-SA7-102611	10/26/11	0945	WATER	NONE	12-1 liter ambers			X	X	X				X	X				X		X	X		X	
FB-SA7-102611	10/26/11	0945	WATER	NONE	1-500 mL poly		X				X	X	X											
FB-SA7-102611	10/26/11	0945	WATER	HNO3	1-500 mL poly	X																		
FB-SA7-102611	10/26/11	0945	WATER	NaOH	1-500 mL poly																X			
FB-SA7-102611	10/26/11	0945	WATER	HCl	11-40 mL vials										X	X	X						X	
FB-SA7-102611	10/26/11	0945	WATER	NONE	4-40 mL vials											X						X		
FB-SA7-102611	10/26/11	0945	WATER	NONE	2-120 mL ambers												X							

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	10/26/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	LLI 10/27/11 0925
		8754 3341 0770; 8754 3341 0781 8754 3341 0792	

SA 7 EB & Field Blank

Nicole Maljovec

From: Bloisa, Peggy [BloisaMJ@cdm.com]

Sent: Monday, October 31, 2011 5:59 PM

To: Nicole Maljovec

Cc: Laura Rainey; Dixie Hambrick

Subject: RE: Analyte priority for secondary suite

Nicole - regarding sample 157 collected from SA 7 that we talked about earlier in our phone call, please revise the secondary analyte order for any "left over" soil as follows:

Terphenyls first, followed by glycols, TPH-EFH, cyanide, alcohols.

Thanks! Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|



Nicole Maljovec

From: Bloisa, Peggy [BloisaMJ@cdm.com]
Sent: Monday, October 31, 2011 11:44 AM
To: Nicole Maljovec
Subject: Revised COC for 10/26/11
Attachments: COC_10_26_11 revised.xlsx

Hi Nicole – please see revisions to COC for 10/26, attached. IF POSSIBLE, if any sample left after primary analyses have been done, perform secondary analyses (TPH-EFH, alcohol/glycols, terphenyls, cyanide) on sample SL-157-SA7-SB-2.5-3.5. Only one jar could be collected.

Thanks, Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|


Please consider the environment before printing this email.

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers
Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS										SECONDARY FOR ALL LOCATIO						Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	
SL-033-SA7-SB-4.0-5.0	10.24.11	1340	SOIL	NONE	1 SS sleeve			X	X													
SL-033-SA7-SB-4.0-5.0	10.24.11	1340	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X									
SL-033-SA7-SB-9.0-10.0	10.24.11	1405	SOIL	NONE	1 SS sleeve			X	X													
SL-033-SA7-SB-9.0-10.0	10.24.11	1405	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X									
SL-038-SA7-SB-4.0-5.0	10.24.11	1055	SOIL	NONE	1 SS sleeve			X	X													
SL-038-SA7-SB-4.0-5.0	10.24.11	1055	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X									
SL-082-SA7-SB-4.0-5.0	10.25.11	0900	SOIL	NONE	1-SS Sleeve			X	X													
SL-082-SA7-SB-4.0-5.0	10.25.11	0900	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X								
SL-086-SA7-SB-3.5	10.26.11	1508	SOIL	NONE	2 Encores										X							
SL-086-SA7-SB-3.0-4.0	10.26.11	1500	SOIL	NONE	1-SS sleeve			X	X													
SL-086-SA7-SB-3.0-4.0	10.26.11	1500	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	
SL-157-SA7-SB-2.5-3.5	10.26.11	1500	SOIL	NONE	1-16 oz Jar	X	X	X	X	X	X	X	X			X	X	X	X	X		**Was not able to collect sleeve**
TB-102611	10.26.11	1430	WATER	NONE	2-40 mL Vials										X							

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/26/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8754 3341 0770; 8754 3341 0781 8754 3341 0792	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 10, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/27/2011
Group Number: 1273441
SDG: DX152
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-033-SA7-SB-4.0-5.0 Soil	6451576
SL-033-SA7-SB-9.0-10.0 Soil	6451577
SL-038-SA7-SB-4.0-5.0 Soil	6451578
SL-082-SA7-SB-4.0-5.0 Soil	6451579
SL-086-SA7-SB-3.0-4.0 Soil	6451580
SL-157-SA7-SB-2.5-3.5 Soil	6451581
EB-SA7-SB-102611 Water	6451582
FB-SA7-102611 Water	6451583

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

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Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Michele J. Smith

Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-033-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA7-SB

LLI Sample # SW 6451576
LLI Group # 1273441
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/24/2011 13:40

Submitted: 10/27/2011 09:25
Reported: 11/10/2011 16:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5210 SDG#: DX152-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-033-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA7-SB

LLI Sample # SW 6451576
LLI Group # 1273441
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/24/2011 13:40

Submitted: 10/27/2011 09:25
Reported: 11/10/2011 16:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5210 SDG#: DX152-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0341 U	0.0341	1.05	1
11031	12378-PeCDD	40321-76-4	0.0437 JBQ	0.0307	5.26	1
11031	123478-HxCDD	39227-28-6	0.0319 JQ	0.0241	5.26	1
11031	123678-HxCDD	57653-85-7	0.0928 J	0.0255	5.26	1
11031	123789-HxCDD	19408-74-3	0.144 JQ	0.0241	5.26	1
11031	1234678-HpCDD	35822-46-9	0.766 JB	0.0289	5.26	1
11031	OCDD	3268-87-9	5.41 JB	0.0295	10.5	1
11031	2378-TCDF	51207-31-9	0.0303 U	0.0303	1.05	1
11031	12378-PeCDF	57117-41-6	0.0724 JB	0.0141	5.26	1
11031	23478-PeCDF	57117-31-4	0.0987 JBQ	0.0141	5.26	1
11031	123478-HxCDF	70648-26-9	0.0839 JBQ	0.0174	5.26	1
11031	123678-HxCDF	57117-44-9	0.0681 JBQ	0.0149	5.26	1
11031	123789-HxCDF	72918-21-9	0.127 JB	0.0211	5.26	1
11031	234678-HxCDF	60851-34-5	0.0745 JB	0.0170	5.26	1
11031	1234678-HpCDF	67562-39-4	0.267 JB	0.0106	5.26	1
11031	1234789-HpCDF	55673-89-7	0.0435 JBQ	0.0194	5.26	1
11031	OCDF	39001-02-0	0.454 JB	0.0424	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	60	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-033-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA7-SB

LLI Sample # SW 6451576
LLI Group # 1273441
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/24/2011 13:40

Submitted: 10/27/2011 09:25
Reported: 11/10/2011 16:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5210 SDG#: DX152-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-033-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA7-SB

LLI Sample # SW 6451576
LLI Group # 1273441
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/24/2011 13:40

Submitted: 10/27/2011 09:25
Reported: 11/10/2011 16:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5210 SDG#: DX152-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11304002	11/01/2011 19:55	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11304002	10/31/2011 13:40	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401A	11/07/2011 22:36	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-033-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA7-SB

LLI Sample # SW 6451577
LLI Group # 1273441
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/24/2011 14:05

Submitted: 10/27/2011 09:25
Reported: 11/10/2011 16:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5211 SDG#: DX152-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.7	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-033-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-033-SA7-SB

LLI Sample # SW 6451577
LLI Group # 1273441
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/24/2011 14:05

Submitted: 10/27/2011 09:25
Reported: 11/10/2011 16:29

CDM Federal Programs Corp.
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Suite 210
Chantilly VA 20151

X5211 SDG#: DX152-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0358	U	0.0358	1.09	1
11031	12378-PeCDD	40321-76-4	0.0565	JBQ	0.0367	5.44	1
11031	123478-HxCDD	39227-28-6	0.159	JQ	0.0330	5.44	1
11031	123678-HxCDD	57653-85-7	0.320	J	0.0335	5.44	1
11031	123789-HxCDD	19408-74-3	0.247	J	0.0348	5.44	1
11031	1234678-HpCDD	35822-46-9	10.8	B	0.0559	5.44	1
11031	OCDD	3268-87-9	107	B	0.0565	10.9	1
11031	2378-TCDF	51207-31-9	0.0505	U	0.0505	1.09	1
11031	12378-PeCDF	57117-41-6	0.393	JB	0.0253	5.44	1
11031	23478-PeCDF	57117-31-4	0.116	JB	0.0265	5.44	1
11031	123478-HxCDF	70648-26-9	0.240	JB	0.0246	5.44	1
11031	123678-HxCDF	57117-44-9	0.163	JB	0.0218	5.44	1
11031	123789-HxCDF	72918-21-9	0.0702	JB	0.0318	5.44	1
11031	234678-HxCDF	60851-34-5	0.130	JB	0.0230	5.44	1
11031	1234678-HpCDF	67562-39-4	1.78	JB	0.0154	5.44	1
11031	1234789-HpCDF	55673-89-7	0.171	JB	0.0294	5.44	1
11031	OCDF	39001-02-0	3.78	JB	0.0439	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	61	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-033-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA7-SB

LLI Sample # SW 6451577
LLI Group # 1273441
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/24/2011 14:05

Submitted: 10/27/2011 09:25
Reported: 11/10/2011 16:29

CDM Federal Programs Corp.
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X5211 SDG#: DX152-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-033-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-033-SA7-SB

LLI Sample # SW 6451577
LLI Group # 1273441
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/24/2011 14:05

Submitted: 10/27/2011 09:25
Reported: 11/10/2011 16:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5211 SDG#: DX152-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11304002	11/01/2011 20:51	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11304002	10/31/2011 13:40	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401A	11/07/2011 22:36	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-038-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-038-SA7-SB

LLI Sample # SW 6451578
LLI Group # 1273441
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/24/2011 10:55

Submitted: 10/27/2011 09:25
Reported: 11/10/2011 16:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5212 SDG#: DX152-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-038-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-038-SA7-SB

LLI Sample # SW 6451578
LLI Group # 1273441
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/24/2011 10:55

Submitted: 10/27/2011 09:25
Reported: 11/10/2011 16:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5212 SDG#: DX152-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0353	U	0.0353	1.09	1
11031	12378-PeCDD	40321-76-4	0.0319	U	0.0319	5.43	1
11031	123478-HxCDD	39227-28-6	0.0837	J	0.0345	5.43	1
11031	123678-HxCDD	57653-85-7	0.245	JQ	0.0337	5.43	1
11031	123789-HxCDD	19408-74-3	0.198	J	0.0345	5.43	1
11031	1234678-HpCDD	35822-46-9	8.22	B	0.0518	5.43	1
11031	OCDD	3268-87-9	67.7	B	0.0494	10.9	1
11031	2378-TCDF	51207-31-9	0.0818	JBQ	0.0393	1.09	1
11031	12378-PeCDF	57117-41-6	0.114	JBQ	0.0186	5.43	1
11031	23478-PeCDF	57117-31-4	0.211	JBQ	0.0191	5.43	1
11031	123478-HxCDF	70648-26-9	0.259	JB	0.0237	5.43	1
11031	123678-HxCDF	57117-44-9	0.108	JBQ	0.0207	5.43	1
11031	123789-HxCDF	72918-21-9	0.0826	JBQ	0.0263	5.43	1
11031	234678-HxCDF	60851-34-5	0.115	JB	0.0201	5.43	1
11031	1234678-HpCDF	67562-39-4	1.03	JBQ	0.0145	5.43	1
11031	1234789-HpCDF	55673-89-7	0.0985	JB	0.0242	5.43	1
11031	OCDF	39001-02-0	2.06	JBQ	0.0364	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	64	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-038-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-038-SA7-SB

LLI Sample # SW 6451578
LLI Group # 1273441
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/24/2011 10:55

Submitted: 10/27/2011 09:25
Reported: 11/10/2011 16:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5212 SDG#: DX152-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-038-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-038-SA7-SB

LLI Sample # SW 6451578
LLI Group # 1273441
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/24/2011 10:55

Submitted: 10/27/2011 09:25
Reported: 11/10/2011 16:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5212 SDG#: DX152-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11304002	11/01/2011 21:48	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11304002	10/31/2011 13:40	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401A	11/07/2011 22:36	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-082-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA7-SB

LLI Sample # SW 6451579
LLI Group # 1273441
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2011 09:00

Submitted: 10/27/2011 09:25
Reported: 11/10/2011 16:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5213 SDG#: DX152-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-082-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA7-SB

LLI Sample # SW 6451579
LLI Group # 1273441
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2011 09:00

Submitted: 10/27/2011 09:25
Reported: 11/10/2011 16:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5213 SDG#: DX152-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0280	U	0.0280	1.07	1
11031	12378-PeCDD	40321-76-4	0.0247	U	0.0247	5.34	1
11031	123478-HxCDD	39227-28-6	0.0202	U	0.0202	5.34	1
11031	123678-HxCDD	57653-85-7	0.0235	JQ	0.0204	5.34	1
11031	123789-HxCDD	19408-74-3	0.0488	JQ	0.0190	5.34	1
11031	1234678-HpCDD	35822-46-9	0.349	JB	0.0206	5.34	1
11031	OCDD	3268-87-9	1.28	JB	0.0311	10.7	1
11031	2378-TCDF	51207-31-9	0.0206	U	0.0206	1.07	1
11031	12378-PeCDF	57117-41-6	0.0227	JBQ	0.0117	5.34	1
11031	23478-PeCDF	57117-31-4	0.0902	JB	0.0122	5.34	1
11031	123478-HxCDF	70648-26-9	0.0554	JBQ	0.0159	5.34	1
11031	123678-HxCDF	57117-44-9	0.0188	JB	0.0143	5.34	1
11031	123789-HxCDF	72918-21-9	0.0412	JB	0.0172	5.34	1
11031	234678-HxCDF	60851-34-5	0.0642	JB	0.0139	5.34	1
11031	1234678-HpCDF	67562-39-4	0.206	JB	0.00984	5.34	1
11031	1234789-HpCDF	55673-89-7	0.0428	JBQ	0.0172	5.34	1
11031	OCDF	39001-02-0	0.239	JBQ	0.0349	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	62	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-082-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA7-SB

LLI Sample # SW 6451579
LLI Group # 1273441
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2011 09:00

Submitted: 10/27/2011 09:25
Reported: 11/10/2011 16:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5213 SDG#: DX152-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-082-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-082-SA7-SB

LLI Sample # SW 6451579
LLI Group # 1273441
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/25/2011 09:00

Submitted: 10/27/2011 09:25
Reported: 11/10/2011 16:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5213 SDG#: DX152-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11304002	11/01/2011 22:44	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11304002	10/31/2011 13:40	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401A	11/07/2011 22:36	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-086-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-086-SA7-SB

LLI Sample # SW 6451580
LLI Group # 1273441
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 15:00

Submitted: 10/27/2011 09:25
Reported: 11/10/2011 16:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5214 SDG#: DX152-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-086-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-086-SA7-SB

LLI Sample # SW 6451580
LLI Group # 1273441
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 15:00

Submitted: 10/27/2011 09:25
Reported: 11/10/2011 16:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5214 SDG#: DX152-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0331	U	0.0331	1.02	1
11031	12378-PeCDD	40321-76-4	0.0313	U	0.0313	5.10	1
11031	123478-HxCDD	39227-28-6	0.0673	JQ	0.0297	5.10	1
11031	123678-HxCDD	57653-85-7	0.170	JQ	0.0303	5.10	1
11031	123789-HxCDD	19408-74-3	0.144	J	0.0309	5.10	1
11031	1234678-HpCDD	35822-46-9	3.80	JB	0.0359	5.10	1
11031	OCDD	3268-87-9	33.6	B	0.0420	10.2	1
11031	2378-TCDF	51207-31-9	0.0287	JBQ	0.0247	1.02	1
11031	12378-PeCDF	57117-41-6	0.0637	JBQ	0.0157	5.10	1
11031	23478-PeCDF	57117-31-4	0.0844	JBQ	0.0154	5.10	1
11031	123478-HxCDF	70648-26-9	0.162	JBQ	0.0211	5.10	1
11031	123678-HxCDF	57117-44-9	0.0187	U	0.0187	5.10	1
11031	123789-HxCDF	72918-21-9	0.0229	U	0.0229	5.10	1
11031	234678-HxCDF	60851-34-5	0.140	JB	0.0198	5.10	1
11031	1234678-HpCDF	67562-39-4	0.686	JB	0.0139	5.10	1
11031	1234789-HpCDF	55673-89-7	0.0911	JB	0.0240	5.10	1
11031	OCDF	39001-02-0	1.38	JBQ	0.0411	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	65	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-086-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-086-SA7-SB

LLI Sample # SW 6451580
LLI Group # 1273441
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 15:00

Submitted: 10/27/2011 09:25
Reported: 11/10/2011 16:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5214 SDG#: DX152-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-086-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-086-SA7-SB

LLI Sample # SW 6451580
LLI Group # 1273441
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 15:00

Submitted: 10/27/2011 09:25
Reported: 11/10/2011 16:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5214 SDG#: DX152-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11304002	11/01/2011 23:41	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11304002	10/31/2011 13:40	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401A	11/07/2011 22:36	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-157-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-157-SA7-SB

LLI Sample # SW 6451581
LLI Group # 1273441
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 15:00

Submitted: 10/27/2011 09:25
Reported: 11/10/2011 16:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5215 SDG#: DX152-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-157-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-157-SA7-SB

LLI Sample # SW 6451581
LLI Group # 1273441
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 15:00

Submitted: 10/27/2011 09:25
Reported: 11/10/2011 16:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5215 SDG#: DX152-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0320	U	0.0320	1.02	1
11031	12378-PeCDD	40321-76-4	0.0504	JBQ	0.0291	5.09	1
11031	123478-HxCDD	39227-28-6	0.0532	JQ	0.0254	5.09	1
11031	123678-HxCDD	57653-85-7	0.180	J	0.0265	5.09	1
11031	123789-HxCDD	19408-74-3	0.127	J	0.0267	5.09	1
11031	1234678-HpCDD	35822-46-9	6.13	B	0.0470	5.09	1
11031	OCDD	3268-87-9	81.4	B	0.0537	10.2	1
11031	2378-TCDF	51207-31-9	0.0283	U	0.0283	1.02	1
11031	12378-PeCDF	57117-41-6	0.0894	JB	0.0162	5.09	1
11031	23478-PeCDF	57117-31-4	0.136	JBQ	0.0161	5.09	1
11031	123478-HxCDF	70648-26-9	0.124	JBQ	0.0197	5.09	1
11031	123678-HxCDF	57117-44-9	0.0909	JBQ	0.0160	5.09	1
11031	123789-HxCDF	72918-21-9	0.0438	JB	0.0244	5.09	1
11031	234678-HxCDF	60851-34-5	0.0961	JBQ	0.0181	5.09	1
11031	1234678-HpCDF	67562-39-4	0.641	JB	0.0140	5.09	1
11031	1234789-HpCDF	55673-89-7	0.0469	JB	0.0283	5.09	1
11031	OCDF	39001-02-0	1.11	JB	0.0411	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	96	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	55	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-157-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-157-SA7-SB

LLI Sample # SW 6451581
LLI Group # 1273441
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 15:00

Submitted: 10/27/2011 09:25
Reported: 11/10/2011 16:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5215 SDG#: DX152-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-157-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-157-SA7-SB

LLI Sample # SW 6451581
LLI Group # 1273441
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 15:00

Submitted: 10/27/2011 09:25
Reported: 11/10/2011 16:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5215 SDG#: DX152-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11304002	11/02/2011 00:37	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11304002	10/31/2011 13:40	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401A	11/07/2011 22:36	Scott W Freisher	1

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Analysis Report

Sample Description: **EB-SA7-SB-102611 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB

LLI Sample # WW 6451582
LLI Group # 1273441
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 07:30

Submitted: 10/27/2011 09:25
Reported: 11/10/2011 16:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5216 SDG#: DX152-16EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.367	U	0.367	2.12	1
10915	12378-PeCDD	40321-76-4	0.382	U	0.382	10.6	1
10915	123478-HxCDD	39227-28-6	0.306	U	0.306	10.6	1
10915	123678-HxCDD	57653-85-7	0.677	JBQ	0.308	10.6	1
10915	123789-HxCDD	19408-74-3	1.36	JBQ	0.314	10.6	1
10915	1234678-HpCDD	35822-46-9	4.85	JBQ	0.408	10.6	1
10915	OCDD	3268-87-9	9.34	JBQ	0.458	21.2	1
10915	2378-TCDF	51207-31-9	0.245	U	0.245	2.12	1
10915	12378-PeCDF	57117-41-6	0.323	JBQ	0.177	10.6	1
10915	23478-PeCDF	57117-31-4	0.750	JBQ	0.155	10.6	1
10915	123478-HxCDF	70648-26-9	1.20	JBQ	0.207	10.6	1
10915	123678-HxCDF	57117-44-9	0.961	JQ	0.198	10.6	1
10915	123789-HxCDF	72918-21-9	0.782	JBQ	0.198	10.6	1
10915	234678-HxCDF	60851-34-5	0.963	JB	0.185	10.6	1
10915	1234678-HpCDF	67562-39-4	2.42	JBQ	0.165	10.6	1
10915	1234789-HpCDF	55673-89-7	0.905	JBQ	0.210	10.6	1
10915	OCDF	39001-02-0	1.81	JBQ	0.554	21.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	54	25 - 164
13C12-12378-PeCDD	50	25 - 181
13C12-123478-HxCDD	44	32 - 141
13C12-123678-HxCDD	46	28 - 130
13C12-123789-HxCDD	45	28 - 130
13C12-1234678-HpCDD	41	23 - 140
13C12-OCDD	35	17 - 157
13C12-2378-TCDF	60	24 - 169
13C12-12378-PeCDF	52	24 - 185
13C12-23478-PeCDF	52	21 - 178
13C12-123478-HxCDF	43	26 - 152
13C12-123678-HxCDF	44	26 - 123
13C12-234678-HxCDF	46	28 - 136
13C12-123789-HxCDF	52	29 - 147
13C12-1234678-HpCDF	40	28 - 143
13C12-1234789-HpCDF	40	26 - 138
13C12-OCDF	34	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA7-SB-102611 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB

LLI Sample # WW 6451582
LLI Group # 1273441
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 07:30

Submitted: 10/27/2011 09:25
Reported: 11/10/2011 16:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5216 SDG#: DX152-16EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11311001	11/08/2011 18:38	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11311001	11/07/2011 08:30	Ginelle L Haines	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **FB-SA7-102611 Water**
SSFL Area IV Collocated Soil Sampling
FB-SA7

LLI Sample # WW 6451583
LLI Group # 1273441
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 09:45

Submitted: 10/27/2011 09:25
Reported: 11/10/2011 16:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5217 SDG#: DX152-17FB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.232	U	0.232	2.09	1
10915	12378-PeCDD	40321-76-4	0.257	U	0.257	10.4	1
10915	123478-HxCDD	39227-28-6	0.251	JQ	0.186	10.4	1
10915	123678-HxCDD	57653-85-7	0.567	JBQ	0.191	10.4	1
10915	123789-HxCDD	19408-74-3	0.565	JBQ	0.179	10.4	1
10915	1234678-HpCDD	35822-46-9	2.74	JB	0.215	10.4	1
10915	OCDD	3268-87-9	4.23	JBQ	0.264	20.9	1
10915	2378-TCDF	51207-31-9	0.180	U	0.180	2.09	1
10915	12378-PeCDF	57117-41-6	0.178	JB	0.120	10.4	1
10915	23478-PeCDF	57117-31-4	0.587	JBQ	0.109	10.4	1
10915	123478-HxCDF	70648-26-9	0.407	JB	0.116	10.4	1
10915	123678-HxCDF	57117-44-9	0.219	JQ	0.115	10.4	1
10915	123789-HxCDF	72918-21-9	0.123	U	0.123	10.4	1
10915	234678-HxCDF	60851-34-5	0.376	JB	0.112	10.4	1
10915	1234678-HpCDF	67562-39-4	1.76	JB	0.0967	10.4	1
10915	1234789-HpCDF	55673-89-7	0.341	JBQ	0.119	10.4	1
10915	OCDF	39001-02-0	1.44	JBQ	0.316	20.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	63	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **FB-SA7-102611 Water**
SSFL Area IV Collocated Soil Sampling
FB-SA7

LLI Sample # WW 6451583
LLI Group # 1273441
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/26/2011 09:45

Submitted: 10/27/2011 09:25
Reported: 11/10/2011 16:29

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5217 SDG#: DX152-17FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11311001	11/08/2011 19:35	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11311001	11/07/2011 08:30	Ginelle L Haines	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273441
Reported: 11/10/11 at 04:29 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11311162401A	Sample number(s): 6451576-6451581								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11304002	Sample number(s): 6451576-6451581								
2378-TCDD	0.0455 U	0.0455	1.00	ng/kg	112		67-158		
12378-PeCDD	0.0516 J	0.0421	5.00	ng/kg	111		70-142		
123478-HxCDD	0.0278 U	0.0278	5.00	ng/kg	103		70-164		
123678-HxCDD	0.0273 U	0.0273	5.00	ng/kg	99		76-134		
123789-HxCDD	0.0276 U	0.0276	5.00	ng/kg	108		64-162		
1234678-HpCDD	0.271 J	0.0288	5.00	ng/kg	104		70-140		
OCDD	0.375 J	0.0359	10.0	ng/kg	101		78-144		
2378-TCDF	0.0447 J	0.0380	1.00	ng/kg	104		75-158		
12378-PeCDF	0.0384 J	0.0198	5.00	ng/kg	107		80-134		
23478-PeCDF	0.0625 J	0.0202	5.00	ng/kg	100		68-160		
123478-HxCDF	0.0789 J	0.0220	5.00	ng/kg	104		72-134		
123678-HxCDF	0.0382 J	0.0176	5.00	ng/kg	102		84-130		
123789-HxCDF	0.0432 J	0.0235	5.00	ng/kg	104		78-130		
234678-HxCDF	0.0442 J	0.0194	5.00	ng/kg	101		70-156		
1234678-HpCDF	0.160 J	0.0113	5.00	ng/kg	95		82-122		
1234789-HpCDF	0.0480 J	0.0232	5.00	ng/kg	99		78-138		
OCDF	0.208 J	0.0566	10.0	ng/kg	102		63-170		
Batch number: 11311001	Sample number(s): 6451582-6451583								
2378-TCDD	0.411 J	0.274	2.00	pg/l	115		67-158		
12378-PeCDD	0.284 U	0.284	10.0	pg/l	116		70-142		
123478-HxCDD	0.185 U	0.185	10.0	pg/l	109		70-164		
123678-HxCDD	0.271 J	0.185	10.0	pg/l	107		76-134		
123789-HxCDD	0.361 J	0.173	10.0	pg/l	114		64-162		
1234678-HpCDD	3.52 J	0.246	10.0	pg/l	114		70-140		
OCDD	5.78 J	0.263	20.0	pg/l	115		78-144		
2378-TCDF	0.269 J	0.170	2.00	pg/l	102		75-158		
12378-PeCDF	0.339 J	0.126	10.0	pg/l	113		80-134		
23478-PeCDF	0.366 J	0.118	10.0	pg/l	104		68-160		
123478-HxCDF	0.775 J	0.127	10.0	pg/l	111		72-134		
123678-HxCDF	0.128 U	0.128	10.0	pg/l	109		84-130		
123789-HxCDF	0.487 J	0.123	10.0	pg/l	111		78-130		
234678-HxCDF	0.440 J	0.120	10.0	pg/l	105		70-156		
1234678-HpCDF	1.93 J	0.115	10.0	pg/l	106		82-122		
1234789-HpCDF	0.597 J	0.137	10.0	pg/l	111		78-138		
OCDF	1.71 J	0.352	20.0	pg/l	115		63-170		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273441
Reported: 11/10/11 at 04:29 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11311162401A	Sample number(s): 6451576-6451581					BKG: P451565			
Moisture Content by 160.3						8.7	9.3	7	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11304002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6451576	69	74	69	79	72	67
6451577	70	72	70	79	78	67
6451578	74	75	72	80	82	72
6451579	75	77	73	84	81	74
6451580	72	75	70	78	77	76
6451581	73	73	67	79	72	63
Blank	72	75	69	82	74	72
OPR	69	72	68	78	73	72
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6451576	98	62	60	75	78	78
6451577	94	62	61	73	80	83
6451578	93	66	64	75	83	86
6451579	98	66	62	77	84	85
6451580	94	67	65	74	78	83
6451581	96	59	55	75	78	81
Blank	107	66	63	80	82	86
OPR	101	67	64	75	82	82
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6451576	79	81	82	71	84
6451577	79	78	79	73	81
6451578	82	80	80	76	83
6451579	83	82	80	76	85
6451580	80	83	81	74	83
6451581	81	79	77	72	83
Blank	84	88	86	70	83
OPR	83	87	84	68	79

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273441
Reported: 11/10/11 at 04:29 PM

Surrogate Quality Control

Limits: 28-130 23-140 17-157 24-169 24-185

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11311001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6451582	54	52	43	44	46	52
6451583	74	74	72	72	73	81
Blank	78	78	75	75	75	86
OPR	77	76	71	73	73	82
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6451582	40	40	34	50	44	46
6451583	70	71	63	71	73	74
Blank	71	69	62	74	75	77
OPR	69	67	60	73	74	74
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6451582	45	41	35	60	52
6451583	72	71	66	77	75
Blank	76	72	64	82	78
OPR	73	70	62	79	77
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Grp# 1273441 Samp6# 6451576-83

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING					PRIMARY FOR ALL LOCATIONS										CONDARY FOR ALL LOCATIO						Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.						*Metals EPA 6010/6020B&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonal EPA 8270	
Samplers Signatures:																						
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																	
SL-033-SA7-SB-4.0-5.0	10.24.11	1340	SOIL	NONE	1 SS sleeve			X	X													
SL-033-SA7-SB-4.0-5.0	10.24.11	1340	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X									
SL-033-SA7-SB-9.0-10.0	10.24.11	1405	SOIL	NONE	1 SS sleeve			X	X													
SL-033-SA7-SB-9.0-10.0	10.24.11	1405	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X									
SL-038-SA7-SB-4.0-5.0	10.24.11	1055	SOIL	NONE	1 SS sleeve			X	X													
SL-038-SA7-SB-4.0-5.0	10.24.11	1055	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X									
SL-082-SA7-SB-4.0-5.0	10.25.11	0900	SOIL	NONE	1-SS Sleeve			X	X													
SL-082-SA7-SB-4.0-5.0	10.25.11	0900	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X								
SL-086-SA7-SB-3.5	10.26.11	1508	SOIL	NONE	2 Encores										X							
SL-086-SA7-SB-3.0-4.0	10.26.11	1500	SOIL	NONE	1-SS sleeve			X	X													
SL-086-SA7-SB-3.0-4.0	10.26.11	1500	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X			X	X	X	X	X	X	
SL-157-SA7-SB-2.5-3.5	10.26.11	1500	SOIL	NONE	1-16 oz Jar	X	X	X	X	X	X	X	X									Was not able to collect sleeve
TB-102611	10.26.11	1430	WATER	NONE	2-40 mL Vials										X							
Relinquished by: (*Signature*)	Date/Time 10/26/2011 / 1630		Received for Laboratory by: (*Signature*)																			Laboratory: Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time		Airbill No.(s) 8754 3341 0770; 8754 3341 0781 8754 3341 0792																			LLI 10/27/11 0928

Subsurface HA 7

acct# 13013 Gp# 1373441 sample# 6451576-83

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 5 (SA5) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers - Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dioxins EPA 8270	Other Instructions and Notes
EB-SA7-SB-102611	10/26/11	0730	WATER	NONE	5-1 liter ambers			X	X	X																		X	
EB-SA7-SB-102611	10/26/11	0730	WATER	NONE	1-500 mL poly		X				X	X	X																
EB-SA7-SB-102611	10/26/11	0730	WATER	HNO3	1-500 mL poly	X																							
FB-SA7-102611	10/26/11	0945	WATER	NONE	12-1 liter ambers			X	X	X				X	X				X			X	X		X			X	
FB-SA7-102611	10/26/11	0945	WATER	NONE	1-500 mL poly		X				X	X	X																
FB-SA7-102611	10/26/11	0945	WATER	HNO3	1-500 mL poly	X																							
FB-SA7-102611	10/26/11	0945	WATER	NaOH	1-500 mL poly																			X					
FB-SA7-102611	10/26/11	0945	WATER	HCl	11-40 mL vials											X	X	X									X		
FB-SA7-102611	10/26/11	0945	WATER	NONE	4-40 mL vials															X						X			
FB-SA7-102611	10/26/11	0945	WATER	NONE	2-120 mL ambers																X								

Relinquished by: (Signature) — Date/Time: 10/26/2011 / 1630 — Received for Laboratory by: (Signature)

Received by: (Signature) — Date/Time — Airbill No.(s): 8754 3341 0770; 8754 3341 0781 8754 3341 0792

Laboratory: Lancaster Laboratories, Inc.

LLI 10/27/11 0925

SA 7 EB & Field Blank

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 21, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/28/2011
Group Number: 1273654
SDG: DE275
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
EB-SA7-SB-102711 Water	6453096
SL-008-SA7-SB-2.5-3.0 Soil	6453097
TB-102711 Water	6453098

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robert Heisey

Robert Heisey
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **EB-SA7-SB-102711 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB

LLI Sample # WW 6453096
LLI Group # 1273654
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2011 13:00

Submitted: 10/28/2011 09:10
Reported: 11/21/2011 11:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7501 SDG#: DE275-01EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	2.02		0.494	0.987		1
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1
Explosives	**SW-846 8330A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.71		0.30	0.60	10000000	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20	U	0.20	0.60	10000000	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20	U	0.20	0.60	10000000	1
10131	1,3-Dinitrobenzene	99-65-0	0.20	U	0.20	0.60	10000000	1
10131	2,4-Dinitrotoluene	121-14-2	0.20	U	0.20	0.60	10000000	1
10131	2,6-Dinitrotoluene	606-20-2	0.20	U	0.20	0.60	10000000	1
10131	HMX	2691-41-0	0.65	U	0.65	2.0	10000000	1
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	10000000	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	10000000	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	10000000	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	10000000	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	10000000	1
10131	PETN	78-11-5	6.0	U	6.0	18	10000000	1
10131	RDX	121-82-4	2.1		0.20	0.60	10000000	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	10000000	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	10000000	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	10000000	1
HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
04144	20b Formaldehyde 8315A	50-00-0	10	U	10	50		1
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Ethanol	64-17-5	200	U	200	1,000		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB-SA7-SB-102711 Water
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB

LLI Sample # WW 6453096
LLI Group # 1273654
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2011 13:00

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CDM Federal Programs Corp.
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Suite 210
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E7501 SDG#: DE275-01EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1
The sample was analyzed 1 day outside the client requested 7 day hold time.								
GC Miscellaneous	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08278	Diethylene glycol	111-46-6	20	U	20	200		1
08278	Ethylene glycol	107-21-1	20	U	20	200		1
08278	Propylene glycol	57-55-6	20	U	20	200		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.085	U	0.085	0.27		1
10319	o-Terphenyl	84-15-1	0.085	U	0.085	0.27		1
10319	p-Terphenyl	92-94-4	0.085	U	0.085	0.27		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
10365	EFH (C12-C14)	n.a.	0.11	U	0.11	0.64		1
10365	EFH (C15-C20)	n.a.	0.11	U	0.11	0.64		1
10365	EFH (C21-C30)	n.a.	0.11	U	0.11	0.64		1
10365	EFH (C30 - C40)	n.a.	0.11	U	0.11	0.64		1
10365	EFH (C8-C11)	n.a.	0.11	U	0.11	0.64		1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050	U	0.050	0.10		1
	SW-846 9012B		**mg/l**		**mg/l**	**mg/l**	**mg/l**	
08255	16b Cyanide by 9012B	57-12-5	0.0050	U	0.0050	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11305WAA026	11/10/2011 01:28	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11305WAA026	11/01/2011 13:50	Wanda F Oswald	1

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Analysis Report

Sample Description: **EB-SA7-SB-102711 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB

LLI Sample # WW 6453096
LLI Group # 1273654
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E7501 SDG#: DE275-01EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11304A20A	11/01/2011 17:39	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11304A20A	11/01/2011 17:39	Marie D John	1
10131	15b Energetics by 8330A	SW-846 8330A	1	113040017A	11/03/2011 11:45	James H Place	1
04144	20b Formaldehyde 8315A	SW-846 8315A	1	113000025A	10/31/2011 23:47	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	113000025A	10/28/2011 13:40	Kelli M Barto	1
11122	Energetics Extraction	SW-846 8330	1	113040017A	11/01/2011 13:15	Kelli M Barto	1
06624	18b Alcohols by 8015B	SW-846 8015B	1	113070034A	11/04/2011 20:02	Elizabeth J Marin	1
08278	19b Glycols by 8015B	SW-846 8015B modified	1	113040032A	10/31/2011 21:37	Tyler O Griffin	1
10319	22b Terphenyls by 8015B	SW-846 8015B	1	113040009A	11/02/2011 13:36	Robert Brown	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	113040007A	11/02/2011 18:46	Heather E Williams	1
11203	EFH Waters Extraction	SW-846 3510C	1	113040007A	10/31/2011 18:00	Kathryn I DeHaven	1
10304	Terphenyls water prep	SW-846 3510C	1	113040009A	10/31/2011 17:00	Bronson L Cole	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	11301196601C	10/29/2011 08:55	Ashley M Adams	1
08255	16b Cyanide by 9012B	SW-846 9012B	1	11311117101A	11/08/2011 17:34	Venia B McFadden	1
08256	Cyanide Water Distillation	SW-846 9012B	1	11311117101A	11/07/2011 10:00	Nancy J Shoop	1

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Analysis Report

Sample Description: SL-008-SA7-SB-2.5-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SB

LLI Sample # SW 6453097
LLI Group # 1273654
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2011 11:55

Submitted: 10/28/2011 09:10
Reported: 11/21/2011 11:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7502 SDG#: DE275-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510		1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400		1
04688	Benzo(a)pyrene	50-32-8	84	J	17	170		1
04688	Benzo(b)fluoranthene	205-99-2	120	J	17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	74	J	17	170		1
04688	Benzo(k)fluoranthene	207-08-9	62	J	17	170		1
04688	Benzoic acid	65-85-0	170	U	170	510		1
04688	Benzyl alcohol	100-51-6	170	U	170	510		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170		1
04688	Carbazole	86-74-8	17	U	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170		1
04688	4-Chloroaniline	106-47-8	68	U	68	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170		1
04688	2-Chlorophenol	95-57-8	17	U	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170		1
04688	Dibenz(a,h)anthracene	53-70-3	17	J	17	170		1
04688	Dibenzofuran	132-64-9	17	U	17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510		1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000		1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170		1
04688	Hexachlorobenzene	118-74-1	17	U	17	170		1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510		1
04688	Hexachloroethane	67-72-1	17	U	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	62	J	17	170		1
04688	Isophorone	78-59-1	17	U	17	170		1
04688	2-Methylphenol	95-48-7	34	U	34	170		1
04688	4-Methylphenol	106-44-5	34	U	34	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	17	U	17	170		1
04688	3-Nitroaniline	99-09-2	34	U	34	170		1
04688	4-Nitroaniline	100-01-6	68	U	68	170		1
04688	Nitrobenzene	98-95-3	17	U	17	170		1
04688	2-Nitrophenol	88-75-5	17	U	17	170		1
04688	4-Nitrophenol	100-02-7	170	U	170	510		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170		1

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Sample Description: **SL-008-SA7-SB-2.5-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SB

LLI Sample # SW 6453097
LLI Group # 1273654
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2011 11:55

Submitted: 10/28/2011 09:10
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CDM Federal Programs Corp.
14420 Albemarle Point Place
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E7502 SDG#: DE275-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	170	U	170	510		1
04688	Phenol	108-95-2	17	U	17	170		1
04688	Pyrene	129-00-0	190		17	170		1
04688	Tetralin	119-64-2	170	U	170	170		1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.							
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170		1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	5.4		0.68	1.7		1
10138	Acenaphthylene	208-96-8	0.86	J	0.34	1.7		1
10138	Anthracene	120-12-7	10		0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	70		0.68	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.1	U	6.1	18		1
10138	Di-n-butylphthalate	84-74-2	8.0	J	6.1	18		1
10138	Chrysene	218-01-9	100		0.34	1.7		1
10138	Diethylphthalate	84-66-2	6.1	U	6.1	18		1
10138	Dimethylphthalate	131-11-3	6.1	U	6.1	18		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	54		6.1	18		1
10138	Fluoranthene	206-44-0	250		0.68	1.7		1
10138	Fluorene	86-73-7	3.0		0.68	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7		1
10138	Naphthalene	91-20-3	0.68	U	0.68	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.1	U	6.1	18		1
10138	Phenanthrene	85-01-8	110		0.68	1.7		1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 8.6 ug/kg. The blank value was not subtracted from the analytical result.							
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1		25.77
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	5.2		1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7		1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7		1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7		1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7		1

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Sample Description: SL-008-SA7-SB-2.5-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SB

LLI Sample # SW 6453097
LLI Group # 1273654
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2011 11:55

Submitted: 10/28/2011 09:10
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E7502 SDG#: DE275-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7		1
10225	PCB-1254	11097-69-1	1.8		0.34	1.7		1
10225	PCB-1260	11096-82-5	2.4		0.40	1.7		1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7		1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7		1
The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.								
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510		1
10501	Isopropanol	67-63-0	100	U	100	510		1
10501	Methanol	67-56-1	100	U	100	510		1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10		1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10		1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10		1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6		1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	1.2	J	0.41	1.2		1
10199	EFH (C21-C30)	n.a.	5.9		0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	10		0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.41	U	0.41	1.2		1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,300		5.95	19.7		1
07914	Boron	7440-42-8	3.18	J	0.354	4.92		1
01650	Calcium	7440-70-2	2,730		2.46	19.7		1
01654	Iron	7439-89-6	19,400		2.57	19.7		1
01656	Lithium	7439-93-2	23.2		0.61	2.0		1
01657	Magnesium	7439-95-4	3,390		0.433	9.84		1
06958	Manganese	7439-96-5	253		0.0354	0.492		1
10145	Phosphorus	7723-14-0	345		0.344	9.84		1
01662	Potassium	7440-09-7	3,000		11.1	49.2		1
01667	Sodium	7440-23-5	71.3	J	5.86	98.4		1
07968	Strontium	7440-24-6	10.0		0.0246	0.492		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-008-SA7-SB-2.5-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SB

LLI Sample # SW 6453097
LLI Group # 1273654
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2011 11:55

Submitted: 10/28/2011 09:10
Reported: 11/21/2011 11:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7502 SDG#: DE275-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06969	Tin	7440-31-5	2.49	J	0.315	9.84		1
06970	Titanium	7440-32-6	957		0.0699	0.984		1
10146	Zirconium	7440-67-7	0.593	J	0.453	4.92		1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0761	J	0.0750	0.203		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.08		0.0811	0.405		2
06126	Barium	7440-39-3	102		0.107	0.405		2
06127	Beryllium	7440-41-7	0.649		0.0162	0.101		2
06128	Cadmium	7440-43-9	0.130		0.0446	0.101		2
06131	Chromium	7440-47-3	16.9		0.122	0.405		2
06132	Cobalt	7440-48-4	5.34		0.0203	0.101		2
06133	Copper	7440-50-8	4.72		0.0780	0.390		2
06135	Lead	7439-92-1	15.0		0.0103	0.203		2
06138	Molybdenum	7439-98-7	0.415		0.0507	0.101		2
06139	Nickel	7440-02-0	10.2		0.101	0.405		2
06141	Selenium	7782-49-2	0.0830	J	0.0588	0.405		2
06142	Silver	7440-22-4	0.0633	J	0.0144	0.101		2
06145	Thallium	7440-28-0	0.370		0.0304	0.101		2
06148	Vanadium	7440-62-2	30.2		0.0223	0.101		2
06149	Zinc	7440-66-6	94.1		0.568	3.04		2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	U	0.0071	0.101		1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.0		0.83	1.0		1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.7		1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.20	U	0.20	1.0		1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.17	U	0.17	0.47		1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.89		0.0100	0.0100		1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	2.3		0.50	0.50		1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: **SL-008-SA7-SB-2.5-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SB

LLI Sample # SW 6453097
LLI Group # 1273654
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2011 11:55

Submitted: 10/28/2011 09:10
Reported: 11/21/2011 11:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7502 SDG#: DE275-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	%	

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-008-SA7-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11304SLB026	11/14/2011	12:54	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11304SLC026	11/11/2011	14:24	Brian K Graham	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11304SLC026	11/01/2011	10:15	Denise L Trimby	1
00381	BNA Soil Sonication	SW-846 3550B	1	11304SLB026	11/01/2011	10:10	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11299A16B	11/01/2011	20:41	Laura M Krieger	25.77
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201130126003	10/28/2011	14:51	Larry E Bevins	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201130126003	10/28/2011	14:51	Larry E Bevins	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113060035A	11/09/2011	15:45	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113060035A	11/03/2011	11:00	Olivia Arosemena	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	113040033A	11/01/2011	19:59	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	113080023A	11/04/2011	22:45	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	113060014A	11/09/2011	18:42	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	113070014A	11/05/2011	06:02	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	113070014A	11/03/2011	19:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	113060014A	11/02/2011	18:00	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	113040033A	11/01/2011	18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	113080023A	11/04/2011	19:35	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	113015708002	10/31/2011	02:56	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113015708002	10/31/2011	02:56	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113015708002	10/31/2011	02:56	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	113015708002	10/31/2011	02:56	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113015708002	10/31/2011	02:56	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113015708002	10/31/2011	02:56	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113015708002	10/31/2011	02:56	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113015708002	10/31/2011	02:56	Tara L Snyder	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: SL-008-SA7-SB-2.5-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SB

LLI Sample # SW 6453097
LLI Group # 1273654
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2011 11:55

Submitted: 10/28/2011 09:10
Reported: 11/21/2011 11:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7502 SDG#: DE275-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01662	Potassium	SW-846 6010B	1	113015708002	10/31/2011 02:56	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113015708002	10/31/2011 02:56	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113015708002	10/31/2011 02:56	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113015708002	10/31/2011 02:56	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	113015708002	10/31/2011 02:56	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113015708002	10/31/2011 02:56	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113011026002A	11/03/2011 13:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113011026002A	11/03/2011 13:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113011026002D	11/03/2011 13:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113011026002A	11/03/2011 13:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	113011026002A	11/03/2011 13:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113011026002A	11/03/2011 13:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113011026002A	11/03/2011 13:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113111026003A	11/09/2011 20:45	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113011026002A	11/03/2011 13:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113011026002C	11/03/2011 13:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113011026002A	11/03/2011 13:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113011026002B	11/03/2011 13:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113011026002A	11/03/2011 13:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113011026002A	11/03/2011 13:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113011026002A	11/03/2011 13:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113011026002A	11/03/2011 13:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113015711001	10/31/2011 09:17	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113015708002	10/30/2011 09:26	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113011026002	10/30/2011 09:26	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	113111026003	11/08/2011 11:44	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113015711001	10/30/2011 12:34	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11312621202A	11/08/2011 13:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11308621201A	11/04/2011 20:59	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11312243201A	11/09/2011 15:23	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11312102202A	11/08/2011 19:50	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11312621202A	11/08/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11308621201A	11/04/2011 06:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11312102202A	11/08/2011 16:25	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11311039401A	11/07/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11312243201A	11/08/2011 08:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401A	11/07/2011 22:36	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-102711 Water**
SSFL Area IV Collocated Soil Sampling
TB

LLI Sample # WW 6453098
LLI Group # 1273654
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2011 14:30

Submitted: 10/28/2011 09:10
Reported: 11/21/2011 11:18

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7503 SDG#: DE275-03TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50		1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11304A20A	11/01/2011	16:11	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11304A20A	11/01/2011	16:11	Marie D John	1

*=This limit was used in the evaluation of the final result
Shaded result = The results or reporting limit exceeded the client-provided action limit.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273654
Reported: 11/21/11 at 11:18 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11304SLB026	Sample number(s): 6453097									
Aniline	170 U		170.	500	ug/kg	65		20-115		
Benzidine	1,200 U		1,200.	3,300	ug/kg	53		15-121		
Benzo(a)pyrene	17	U	17.	170	ug/kg	105		65-124		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	105		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	96		60-125		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	109		67-125		
Benzoic acid	170 U		170.	500	ug/kg	72		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	86		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	107		73-114		
Carbazole	17	U	17.	170	ug/kg	99		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	89		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	45		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	95		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	85		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	85		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	92		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	95		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	100		74-115		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	97		61-126		
Dibenzofuran	17	U	17.	170	ug/kg	99		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	88		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	86		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	86		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	55		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	103		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	93		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	104		83-120		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	90		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	77		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	96		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	99		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	90		71-125		
Hexachlorobenzene	17	U	17.	170	ug/kg	112		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	99		65-117		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	63		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	79		61-109		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	97		64-119		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273654
Reported: 11/21/11 at 11:18 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Isophorone	17	U	17.	170	ug/kg	85		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	96		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	89		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	94		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	88		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	66		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	86		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	90		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	66		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	76		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	106		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	111		51-117		
Phenol	17	U	17.	170	ug/kg	90		58-112		
Pyrene	17	U	17.	170	ug/kg	99		75-115		
Tetralin	170	U	170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	98		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	99		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	101		78-111		
Batch number: 11304SLC026	Sample number(s): 6453097									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	88		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	88		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	94		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	91		74-120		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	81		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	98		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	95		73-114		
Diethylphthalate	6.0	U	6.0	18	ug/kg	99		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	99		79-121		
Bis(2-Ethylhexyl)phthalate	8.6	J	6.0	18	ug/kg	95		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	100		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	96		71-120		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	83		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	84		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	80		55-118		
Di-n-octylphthalate	22		6.0	18	ug/kg	84		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	92		75-120		
Batch number: 11305WAA026	Sample number(s): 6453096									
N-Nitrosodimethylamine	0.500	U	0.500	1.00	ng/l	93	95	70-130	2	30
Batch number: 11299A16B	Sample number(s): 6453097									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	74	75	67-119	2	30
Batch number: 11304A20A	Sample number(s): 6453096,6453098									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 113040017A	Sample number(s): 6453096									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	110	110	80-120	0	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	50-122	0	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	50-122	0	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	110	110	72-117	0	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	98	98	80-120	0	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273654
Reported: 11/21/11 at 11:18 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	110	110	80-120	0	30
HMX	0.65	U	0.65	2.0	ug/l	99	100	65-125	1	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	89	93	75-121	4	30
Nitroglycerin	5.2	U	5.2	15	ug/l	100	100	80-120	0	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	97	96	74-120	1	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	100	100	69-107	0	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	95	94	80-120	1	30
PETN	6.0	U	6.0	18	ug/l	104	104	80-120	0	30
RDX	0.20	U	0.20	0.60	ug/l	97	96	70-125	1	30
Tetryl	0.40	U	0.40	0.60	ug/l	89	78	31-148	13	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	100	91	53-129	9	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	76-109	0	30
Batch number: 113000025A	Sample number(s): 6453096									
20b Formaldehyde 8315A	10	U	10.	50	ug/l	98	100	69-130	2	30
Batch number: 113060035A	Sample number(s): 6453097									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	101	115*	36-106	12	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	149*		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	184*		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 113040032A	Sample number(s): 6453096									
Diethylene glycol	20	U	20.	200	mg/l	105	115	67-126	9	20
Ethylene glycol	20	U	20.	200	mg/l	85	110	78-136	26*	20
Propylene glycol	20	U	20.	200	mg/l	80	110	65-132	32*	20
Batch number: 113040033A	Sample number(s): 6453097									
Ethanol	100 U		100.	500	ug/kg	93		71-129		
Isopropanol	100 U		100.	500	ug/kg	90		75-125		
Methanol	100 U		100.	500	ug/kg	106		68-129		
Batch number: 113070034A	Sample number(s): 6453096									
Ethanol	200 U		200.	1,000	ug/l	100		78-116		
Isopropanol	200 U		200.	1,000	ug/l	100		75-125		
Methanol	200 U		200.	1,000	ug/l	116		76-122		
Batch number: 113080023A	Sample number(s): 6453097									
Diethylene glycol	5.0	U	5.0	10	mg/kg	99		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	103		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	96		67-131		
Batch number: 113040007A	Sample number(s): 6453096									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	106	108	63-121	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273654
Reported: 11/21/11 at 11:18 AM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	105	105	72-124	0	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	100	100	64-123	0	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	93	93	73-124	0	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	140*	142*	43-107	1	30
Batch number: 113040009A	Sample number(s): 6453096									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	90	98	61-108	9	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	90	98	75-125	9	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	90	98	63-110	8	20
Batch number: 113060014A	Sample number(s): 6453097									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	105		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	107		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	107		69-109		
Batch number: 113070014A	Sample number(s): 6453097									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	123		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	112		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	117		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	91		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	142*		49-107		
Batch number: 113011026002A	Sample number(s): 6453097									
Antimony	0.0718	U	0.0718	0.194	mg/kg	76		40-227		
Arsenic	0.0777	U	0.0777	0.388	mg/kg	95		83-111		
Beryllium	0.0155	U	0.0155	0.0971	mg/kg	97		84-112		
Cadmium	0.0427	U	0.0427	0.0971	mg/kg	94		83-111		
Chromium	0.386	J	0.117	0.388	mg/kg	106		77-123		
Cobalt	0.0194	U	0.0194	0.0971	mg/kg	95		85-114		
Lead	0.0102	J	0.0099	0.194	mg/kg	94		84-112		
Nickel	0.277	J	0.0971	0.388	mg/kg	94		81-110		
Silver	0.0138	U	0.0138	0.0971	mg/kg	97		83-112		
Thallium	0.0291	U	0.0291	0.0971	mg/kg	93		82-112		
Vanadium	0.0491	J	0.0214	0.0971	mg/kg	99		76-110		
Zinc	0.605	J	0.544	2.91	mg/kg	95		82-110		
Batch number: 113011026002B	Sample number(s): 6453097									
Selenium	0.0563	U	0.0563	0.388	mg/kg	95		79-110		
Batch number: 113011026002C	Sample number(s): 6453097									
Molybdenum	0.0485	U	0.0485	0.0971	mg/kg	100		80-110		
Batch number: 113011026002D	Sample number(s): 6453097									
Barium	0.103	U	0.103	0.388	mg/kg	101		83-110		
Batch number: 113015708002	Sample number(s): 6453097									
Aluminum	5.99	U	5.99	19.8	mg/kg	90		40-127		
Boron	0.356	U	0.356	4.95	mg/kg	102		83-110		
Calcium	4.94	J	2.48	19.8	mg/kg	102		81-110		
Iron	2.58	U	2.58	19.8	mg/kg	83		47-129		
Lithium	0.61	U	0.61	2.0	mg/kg	99		80-120		
Magnesium	0.996	J	0.436	9.90	mg/kg	91		63-116		
Manganese	0.102	J	0.0356	0.495	mg/kg	99		85-116		
Phosphorus	1.17	J	0.347	9.90	mg/kg	104		80-120		
Potassium	11.2	U	11.2	49.5	mg/kg	101		71-110		
Sodium	5.89	U	5.89	99.0	mg/kg	101		76-110		
Strontium	0.0248	U	0.0248	0.495	mg/kg	102		84-110		
Tin	1.27	J	0.317	9.90	mg/kg	96		86-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273654
Reported: 11/21/11 at 11:18 AM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Titanium	0.0703 U	0.0703	0.990	mg/kg	97		80-120		
Zirconium	0.455 U	0.455	4.95	mg/kg	101		80-120		
Batch number: 113015711001	Sample number(s): 6453097								
Mercury	0.0069 U	0.0069	0.0984	mg/kg	115		83-119		
Batch number: 113111026003A	Sample number(s): 6453097								
Copper	0.0784 U	0.0784	0.392	mg/kg	103		81-110		
Batch number: 11301196601C	Sample number(s): 6453096								
11b Anions by 300.0 - Nitrate	0.050 U	0.050	0.10	mg/l	103	103	90-110	0	20
Batch number: 11308621201A	Sample number(s): 6453097								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	104		85-115		
Batch number: 11311117101A	Sample number(s): 6453096								
16b Cyanide by 9012B	0.0050 U	0.0050	0.010	mg/l	99	99	90-110	0	20
Batch number: 11312102202A	Sample number(s): 6453097								
16a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	105		80-120		
Batch number: 11312243201A	Sample number(s): 6453097								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	81		80-120		
Batch number: 11312621202A	Sample number(s): 6453097								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	104		90-110		
Batch number: 11311039401A	Sample number(s): 6453097								
17a pH by 9045C					100		95-105		
Batch number: 11311162401A	Sample number(s): 6453097								
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11304SLB026	Sample number(s): 6453097 UNSPK: P451564								
Aniline	52	61	18-116	17	30				
Benzidine	0*	0*	35-141	0	30				
Benzo(a)pyrene	104	103	57-126	1	30				
Benzo(b)fluoranthene	104	104	59-125	0	30				
Benzo(g,h,i)perylene	99	99	59-127	1	30				
Benzo(k)fluoranthene	111	107	56-132	2	30				
Benzoic acid	60	58	10-173	2	30				
Benzyl alcohol	80	82	67-115	3	30				
4-Bromophenyl-phenylether	108	106	67-129	1	30				
Carbazole	103	101	64-120	1	30				
4-Chloro-3-methylphenol	85	84	62-122	0	30				
4-Chloroaniline	42	61	13-107	37*	30				
bis(2-Chloroethoxy)methane	90	90	75-104	1	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273654
Reported: 11/21/11 at 11:18 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
bis(2-Chloroethyl)ether	83	81	60-116	1	30				
bis(2-Chloroisopropyl)ether	80	80	55-142	1	30				
2-Chloronaphthalene	94	84	50-141	10	30				
2-Chlorophenol	90	92	73-121	3	30				
4-Chlorophenyl-phenylether	100	100	80-109	1	30				
Dibenz(a,h)anthracene	100	99	65-125	0	30				
Dibenzofuran	98	99	71-112	1	30				
1,2-Dichlorobenzene	85	83	66-108	2	30				
1,3-Dichlorobenzene	82	81	63-109	1	30				
1,4-Dichlorobenzene	81	80	58-108	1	30				
3,3'-Dichlorobenzidine	44	55	28-109	24	30				
2,4-Dichlorophenol	98	101	66-123	4	30				
2,4-Dimethylphenol	86	87	68-118	2	30				
3,5-Dimethylphenol	98	101	71-127	4	30				
4,6-Dinitro-2-methylphenol	83	85	11-126	3	30				
2,4-Dinitrophenol	57	58	20-143	2	30				
2,4-Dinitrotoluene	94	96	56-129	2	30				
2,6-Dinitrotoluene	99	100	69-123	1	30				
1,2-Diphenylhydrazine	91	89	71-129	1	30				
Hexachlorobenzene	114	111	77-114	2	30				
Hexachlorobutadiene	95	94	62-120	1	30				
Hexachlorocyclopentadiene	104	101	10-153	2	30				
Hexachloroethane	76	74	57-109	2	30				
Indeno(1,2,3-cd)pyrene	100	100	61-126	0	30				
Isophorone	80	81	73-102	2	30				
2-Methylphenol	87	90	75-111	3	30				
4-Methylphenol	81	83	59-123	3	30				
2-Nitroaniline	95	95	67-125	1	30				
3-Nitroaniline	89	91	59-122	3	30				
4-Nitroaniline	75	76	41-109	1	30				
Nitrobenzene	82	83	57-125	1	30				
2-Nitrophenol	85	90	56-127	6	30				
4-Nitrophenol	69	70	37-129	2	30				
N-Nitroso-di-n-propylamine	70	70	60-116	0	30				
N-Nitrosodiphenylamine	104	102	71-122	2	30				
Pentachlorophenol	114	112	28-127	1	30				
Phenol	83	85	58-126	2	30				
Pyrene	100	99	74-126	0	30				
1,2,4-Trichlorobenzene	97	95	72-115	1	30				
2,4,5-Trichlorophenol	101	102	58-129	2	30				
2,4,6-Trichlorophenol	103	103	56-134	1	30				
Batch number: 11304SLC026	Sample number(s): 6453097 UNSPK: P451564								
Acenaphthene	92	90	63-105	3	30				
Acenaphthylene	90	91	67-114	1	30				
Anthracene	94	96	73-115	1	30				
Benzo(a)anthracene	97	96	59-128	1	30				
Butylbenzylphthalate	87	87	57-173	0	30				
Di-n-butylphthalate	98	102	65-148	4	30				
Chrysene	95	95	67-123	0	30				
Diethylphthalate	94	123	70-136	26	30				
Dimethylphthalate	100	100	74-118	1	30				
Bis(2-Ethylhexyl)phthalate	98	144	39-167	33*	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273654
Reported: 11/21/11 at 11:18 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Fluoranthene	105	109	51-149	3	30				
Fluorene	95	95	66-122	0	30				
1-Methylnaphthalene	83	86	72-123	3	30				
2-Methylnaphthalene	83	86	64-103	4	30				
Naphthalene	86	92	61-102	6	30				
N-Nitrosodimethylamine	85	90	48-113	4	30				
Di-n-octylphthalate	90	92	40-192	2	30				
Phenanthrene	92	92	62-122	0	30				
Batch number: 113060035A	Sample number(s): 6453097 UNSPK: 6453097								
PCB-1016	120	92	29-146	26	50				
PCB-1260	119	96	39-149	19	50				
Batch number: 113040033A	Sample number(s): 6453097 UNSPK: P451568								
Ethanol	88	87	48-130	0	20				
Isopropanol	86	87	12-149	1	20				
Methanol	107	103	43-138	5	20				
Batch number: 113070034A	Sample number(s): 6453096 UNSPK: 6453096								
Ethanol	104	104	62-145	0	20				
Isopropanol	100	100	73-131	0	20				
Methanol	116	116	52-159	0	20				
Batch number: 113080023A	Sample number(s): 6453097 UNSPK: P454453								
Diethylene glycol	3*	4*	59-109	4	20				
Ethylene glycol	39*	39*	63-107	0	20				
Propylene glycol	56*	56*	63-107	1	20				
Batch number: 113060014A	Sample number(s): 6453097 UNSPK: P451568								
m-Terphenyl	107	105	75-125	2	20				
o-Terphenyl	109	106	75-125	2	20				
p-Terphenyl	109	106	75-125	2	20				
Batch number: 113070014A	Sample number(s): 6453097 UNSPK: P451568								
EFH (C12-C14)	89	88	49-123	1	20				
EFH (C15-C20)	104	101	49-123	2	20				
EFH (C21-C30)	133*	112	49-123	8	20				
EFH (C30 - C40)	-54*	-67*	49-123	5	20				
EFH (C8-C11)	74	71	49-123	3	20				
Batch number: 113011026002A	Sample number(s): 6453097 UNSPK: 6453097 BKG: 6453097								
Antimony	36*	43*	75-125	17	20	0.0744 J	0.684	161* (1)	20
Arsenic	96	61*	75-125	10	20	4.97	4.19	17	20
Beryllium	93	91	75-125	1	20	0.634	0.410	43* (1)	20
Cadmium	114	107	75-125	5	20	0.127	0.100	24* (1)	20
Chromium	95	83	75-125	4	20	16.5	11.3	37*	20
Cobalt	114	104	75-125	8	20	5.22	3.80	31*	20
Lead	70 (2)	112 (2)	75-125	7	20	14.6	103	150*	20
Nickel	102	92	75-125	4	20	9.98	6.95	36*	20
Silver	119	109	75-125	7	20	0.0618 J	0.0159 J	118* (1)	20
Thallium	97	83	75-125	7	20	0.362	0.235	42* (1)	20
Vanadium	86	67*	75-125	5	20	29.5	22.5	27*	20
Zinc	-42 (2)	-49 (2)	75-125	1	20	92.0	70.1	27*	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273654
Reported: 11/21/11 at 11:18 AM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 113011026002B	Sample number(s): 6453097 UNSPK: 6453097 BKG: 6453097								
Selenium	111	100	75-125	9	20	0.0811 J	0.0693 J	16 (1)	20
Batch number: 113011026002C	Sample number(s): 6453097 UNSPK: 6453097 BKG: 6453097								
Molybdenum	119	109	75-125	8	20	0.405	0.261	43* (1)	20
Batch number: 113011026002D	Sample number(s): 6453097 UNSPK: 6453097 BKG: 6453097								
Barium	-26 (2)	16 (2)	75-125	4	20	99.8	76.5	26*	20
Batch number: 113015708002	Sample number(s): 6453097 UNSPK: 6453097 BKG: 6453097								
Aluminum	815 (2)	1050 (2)	75-125	4	20	10,100	10,100	1	20
Boron	99	97	84-115	0	20	3.11 J	2.71 J	14 (1)	20
Calcium	44 (2)	45 (2)	75-125	0	20	2,670	2,430	9	20
Iron	-2936 (2)	-2307 (2)	75-125	4	20	19,000	16,200	16	20
Lithium	101	99	82-114	0	20	22.6	23.3	3	20
Magnesium	153 (2)	226 (2)	75-125	4	20	3,310	3,370	2	20
Manganese	88 (2)	126 (2)	75-125	6	20	247	236	5	20
Phosphorus	69*	84	75-125	4	20	337	311	8	20
Potassium	128*	131*	75-125	1	20	2,930	3,050	4	20
Sodium	98	97	75-125	0	20	69.7 J	70.2 J	1 (1)	20
Strontium	100	98	75-115	0	20	9.77	9.54	2	20
Tin	93	91	80-110	1	20	2.43 J	2.43 J	0 (1)	20
Titanium	184 (2)	261 (2)	75-125	7	20	935	984	5	20
Zirconium	100	98	81-110	1	20	0.580 J	1.47 J	87* (1)	20
Batch number: 113015711001	Sample number(s): 6453097 UNSPK: 6453097 BKG: 6453097								
Mercury	100	100	65-135	5	20	0.0069 U	0.0069 U	0 (1)	20
Batch number: 113111026003A	Sample number(s): 6453097 UNSPK: P461455 BKG: P461455								
Copper	113	137*	75-125	11	20	7.51	6.37	16	20
Batch number: 11308621201A	Sample number(s): 6453097 UNSPK: P451564 BKG: P451564								
7a Perchlorate EPA 314.0	113		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11312102202A	Sample number(s): 6453097 UNSPK: P451568 BKG: P451568								
16a Cyanide by 9012B	106		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 11312243201A	Sample number(s): 6453097 UNSPK: P451564 BKG: P451564								
3a Cr VI by EPA 7199	98		75-125			0.43 J	0.47 J	10 (1)	20
Batch number: 11312621202A	Sample number(s): 6453097 UNSPK: P451564 BKG: P451564								
11a Anions by 300.0 - Fluoride	73*		80-120			0.80 U	0.80 U	0 (1)	20
Batch number: 11311039401A	Sample number(s): 6453097 BKG: P451564								
17a pH by 9045C						6.66	6.67	0	3
Batch number: 11311162401A	Sample number(s): 6453097 BKG: P451565								
Moisture Content by 160.3						8.7	9.3	7	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273654
Reported: 11/21/11 at 11:18 AM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11304SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6453097	90	99	107	76	97	113
Blank	81	92	104	77	99	117
LCS	92	100	111	80	101	115
MS	85	95	112	78	101	116
MSD	87	95	112	78	102	117
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11304SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6453097	90	84	67
Blank	87	83	88
LCS	87	83	78
MS	89	87	73
MSD	91	86	67
Limits:	40-130	45-130	45-135

Analysis Name: 21b. NDMA in Water
Batch number: 11305WAA026

	N-Nitrosodimethylamine-d6
6453096	131
Blank	119
LCS	120
LCSD	118
Limits:	50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11299A16B

	Trifluorotoluene-F
6453097	84
Blank	96
LCS	89
LCSD	93
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11304A20A

	Trifluorotoluene-F
6453096	89
6453098	89

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273654
Reported: 11/21/11 at 11:18 AM

Surrogate Quality Control

Blank	88	
LCS	114	
LCSD	112	
Limits:	63-135	

Analysis Name: 20b Formaldehyde 8315A
Batch number: 113000025A

	Butyraldehyde
6453096	89
Blank	90
LCS	90
LCSD	87
Limits:	45-145

Analysis Name: 15b Energetics by 8330A
Batch number: 113040017A

	2-Nitro-m-xylene
6453096	89
Blank	93
LCS	92
LCSD	92
Limits:	50-134

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 113060035A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6453097	112	120
Blank	120	117
LCS	179*	186*
LCSD	164*	163*
MS	143*	133*
MSD	116	108
Limits:	53-139	45-120

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 113040007A

	Chlorobenzene	Orthoterphenyl
6453096	107	85
Blank	89	80
LCS	89	95
LCSD	94	96
Limits:	28-152	52-131

Analysis Name: 22b Terphenyls by 8015B
Batch number: 113040009A

	n-Triacontane-d62
6453096	70

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273654
Reported: 11/21/11 at 11:18 AM

Surrogate Quality Control

Blank	59		
LCS	67		
LCSD	72		
Limits:	17-138		

Analysis Name: 19b Glycols by 8015B
Batch number: 113040032A

	Tetramethylene glycol
6453096	104
Blank	107
LCS	105
LCSD	112
Limits:	29-157

Analysis Name: 18a Alcohols by 8015B
Batch number: 113040033A

	Acetone
6453097	90
Blank	93
LCS	92
MS	89
MSD	89
Limits:	42-138

Analysis Name: 22a Terphenyls by 8015B
Batch number: 113060014A

	n-Triacontane-d62
6453097	80
Blank	78
LCS	93
MS	84
MSD	80
Limits:	19-152

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 113070014A

	Chlorobenzene	Orthoterphenyl
6453097	104	94
Blank	93	81
LCS	90	98
MS	91	93
MSD	90	90
Limits:	37-125	47-145

Analysis Name: 18b Alcohols by 8015B
Batch number: 113070034A

	Acetone

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273654
Reported: 11/21/11 at 11:18 AM

Surrogate Quality Control

6453096	93
Blank	94
LCS	100
MS	102
MSD	104

Limits: 54-147

Analysis Name: 19a Glycols by 8015B
Batch number: 113080023A
Tetramethylene glycol

6453097	89
Blank	99
LCS	99
MS	88
MSD	87

Limits: 29-137

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Cp# 1273654 sample# 6453096-98

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/6/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB-SA7-SB-102711	10/27/11	1400	WATER	NONE	5-1 liter ambers										X			X	X		X			
EB-SA7-SB-102711	10/27/11	1400	WATER	NaOH	1-500 mL poly															X				
EB-SA7-SB-102711	10/27/11	1400	WATER	None	4-40 mL vials											X						X		
EB-SA7-SB-102711	10/27/11	1400	WATER	HCl	5-40 mL vials									X									X	
EB-SA7-SB-102711	10/27/11	1400	WATER	None	2-120 mL ambers												X							
SL-008-SA7-SB-3.0	10/27/11	1200	SOIL	NONE	2 Encores									X										
SL-008-SA7-SB-2.5-3.0	10/27/11	1155	SOIL	NONE	3-16 oz Jar	X	X	X	X	X	X	X	X		X					X	X	X	X	Was not able to collect sleeve
TB-102711	10/27/11	1430	WATER	HCl	2-40 mL vials									X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/27/2011 / 1630	10/28/11 ~~10/29/11~~ 0910 (3) GL 10/28/11	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8754 3341 0807	

Tamara J. Heisel

From: Bloisa, Peggy [BloisaMJ@cdm.com]
Sent: Thursday, October 27, 2011 7:43 PM
To: Nicole Maljovec; SA Env Entry
Subject: COC for 10/27/11
Attachments: COC_10_27_11.xlsx

Nicole – Please disregard the COC that is in the cooler you will receive tomorrow. Use the attached one in its place.

Also, for the rinsate blank bottles, use whatever time is on the bottle labels, I'm not sure I remembered the sample time correctly.

Thanks! Peggy

Peggy Bloisa, P.G.
CDM
|100 Pringle Avenue Suite 300| Walnut Creek, CA 94596|
|Phone and Fax: (925) 296-8053|


Please consider the environment before printing this email.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 08, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/28/2011
Group Number: 1273655
SDG: DX152
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-008-SA7-SB-2.5-3.0 Soil	6453099

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-008-SA7-SB-2.5-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SB

LLI Sample # SW 6453099
LLI Group # 1273655
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2011 11:55

Submitted: 10/28/2011 09:10
Reported: 11/08/2011 08:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5218 SDG#: DX152-18*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-008-SA7-SB-2.5-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SB

LLI Sample # SW 6453099
LLI Group # 1273655
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Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2011 11:55

Submitted: 10/28/2011 09:10
Reported: 11/08/2011 08:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5218 SDG#: DX152-18*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0517	J	0.0348	1.01	1
11031	12378-PeCDD	40321-76-4	0.159	JB	0.0402	5.03	1
11031	123478-HxCDD	39227-28-6	0.199	J	0.0380	5.03	1
11031	123678-HxCDD	57653-85-7	0.583	J	0.0382	5.03	1
11031	123789-HxCDD	19408-74-3	0.515	J	0.0373	5.03	1
11031	1234678-HpCDD	35822-46-9	13.5	B	0.0605	5.03	1
11031	OCDD	3268-87-9	130	B	0.0609	10.1	1
11031	2378-TCDF	51207-31-9	0.0788	JB	0.0538	1.01	1
11031	12378-PeCDF	57117-41-6	0.644	JB	0.0297	5.03	1
11031	23478-PeCDF	57117-31-4	0.375	JB	0.0308	5.03	1
11031	123478-HxCDF	70648-26-9	0.550	JB	0.0308	5.03	1
11031	123678-HxCDF	57117-44-9	0.254	JB	0.0271	5.03	1
11031	123789-HxCDF	72918-21-9	0.102	JBQ	0.0328	5.03	1
11031	234678-HxCDF	60851-34-5	0.268	JB	0.0272	5.03	1
11031	1234678-HpCDF	67562-39-4	2.76	JB	0.0173	5.03	1
11031	1234789-HpCDF	55673-89-7	0.180	JBQ	0.0308	5.03	1
11031	OCDF	39001-02-0	4.39	JB	0.0450	10.1	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	59	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-008-SA7-SB-2.5-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SB

LLI Sample # SW 6453099
LLI Group # 1273655
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2011 11:55

Submitted: 10/28/2011 09:10
Reported: 11/08/2011 08:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5218 SDG#: DX152-18*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-008-SA7-SB-2.5-3.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-008-SA7-SB

LLI Sample # SW 6453099
LLI Group # 1273655
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2011 11:55

Submitted: 10/28/2011 09:10
Reported: 11/08/2011 08:33

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5218 SDG#: DX152-18*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11304002	11/02/2011 01:34	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11304002	10/31/2011 13:40	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401A	11/07/2011 22:36	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273655
Reported: 11/08/11 at 08:33 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11311162401A	Sample number(s): 6453099								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11304002	Sample number(s): 6453099								
2378-TCDD	0.0455 U	0.0455	1.00	ng/kg	112		67-158		
12378-PeCDD	0.0516 J	0.0421	5.00	ng/kg	111		70-142		
123478-HxCDD	0.0278 U	0.0278	5.00	ng/kg	103		70-164		
123678-HxCDD	0.0273 U	0.0273	5.00	ng/kg	99		76-134		
123789-HxCDD	0.0276 U	0.0276	5.00	ng/kg	108		64-162		
1234678-HpCDD	0.271 J	0.0288	5.00	ng/kg	104		70-140		
OCDD	0.375 J	0.0359	10.0	ng/kg	101		78-144		
2378-TCDF	0.0447 J	0.0380	1.00	ng/kg	104		75-158		
12378-PeCDF	0.0384 J	0.0198	5.00	ng/kg	107		80-134		
23478-PeCDF	0.0625 J	0.0202	5.00	ng/kg	100		68-160		
123478-HxCDF	0.0789 J	0.0220	5.00	ng/kg	104		72-134		
123678-HxCDF	0.0382 J	0.0176	5.00	ng/kg	102		84-130		
123789-HxCDF	0.0432 J	0.0235	5.00	ng/kg	104		78-130		
234678-HxCDF	0.0442 J	0.0194	5.00	ng/kg	101		70-156		
1234678-HpCDF	0.160 J	0.0113	5.00	ng/kg	95		82-122		
1234789-HpCDF	0.0480 J	0.0232	5.00	ng/kg	99		78-138		
OCDF	0.208 J	0.0566	10.0	ng/kg	102		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11311162401A	Sample number(s): 6453099			BKG: P451565					
Moisture Content by 160.3						8.7	9.3	7	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273655
Reported: 11/08/11 at 08:33 AM

Surrogate Quality Control

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11304002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6453099	70	70	66	74	71	67
Blank	72	75	69	82	74	72
OPR	69	72	68	78	73	72
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6453099	88	61	59	72	75	77
Blank	107	66	63	80	82	86
OPR	101	67	64	75	82	82
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6453099	76	76	76	72	79
Blank	84	88	86	70	83
OPR	83	87	84	68	79
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Cap#1273655 sample# 6453099

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subares 6 (SA6) & Subares 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
EB-SA7-SB-102711	10/27/11	1400	WATER	NONE	5-1 liter ambers										X			X	X		X			
EB-SA7-SB-102711	10/27/11	1400	WATER	NaOH	1-500 mL poly															X				
EB-SA7-SB-102711	10/27/11	1400	WATER	None	4-40 mL vials											X						X		
EB-SA7-SB-102711	10/27/11	1400	WATER	HCl	5-40 mL vials									X									X	
EB-SA7-SB-102711	10/27/11	1400	WATER	None	2-120 mL ambers												X							
SL-008-SA7-SB-3.0	10/27/11	1200	SOIL	NONE	2 Encores									X										
SL-008-SA7-SB-2.5-3.0	10/27/11	1155	SOIL	NONE	3-16 oz Jar	X	X	X	X	X	X	X	X		X					X	X	X	X	Was not able to collect sleeve
TB-102711	10/27/11	1430	WATER	HCl	2-40 mL vials									X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	10/27/2011 / 1630	10/28/11 (3) 10/28/11 ~~10/29/11~~ 0910	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	AirBill No.(s)	
		8754 3341 0807	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 29, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/29/2011
Group Number: 1273859
SDG: DE276
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-091-SA7-SB-2.5-3.5 Soil	6454453
SL-116-SA7-SB-0.0-0.5 Soil	6454454
SL-117-SA7-SB-2.5-3.5 Soil	6454455
SL-118-SA7-SB-4.0-5.0 Soil	6454456
SL-119-SA7-SB-4.0-5.0 Soil	6454457
TB-102811 Water	6454458

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

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Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Robin C. Runkle
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-091-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA7-SB

LLI Sample # SW 6454453
LLI Group # 1273859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2011 16:00

Submitted: 10/29/2011 09:15
Reported: 11/29/2011 12:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7601 SDG#: DE276-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	510	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,400	1
04688	Benzoic acid	65-85-0	170	U	170	510	1
04688	Benzyl alcohol	100-51-6	170	U	170	510	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	34	U	34	170	1
04688	4-Chloroaniline	106-47-8	68	U	68	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	34	U	34	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	340	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	34	U	34	170	1
04688	3,5-Dimethylphenol	108-68-9	34	U	34	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	510	1
04688	2,4-Dinitrophenol	51-28-5	340	U	340	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	34	U	34	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	68	U	68	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	510	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	34	U	34	170	1
04688	4-Methylphenol	106-44-5	34	U	34	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	34	U	34	170	1
04688	4-Nitroaniline	100-01-6	68	U	68	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	510	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	510	1
04688	Phenol	108-95-2	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-091-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA7-SB

LLI Sample # SW 6454453
LLI Group # 1273859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2011 16:00

Submitted: 10/29/2011 09:15
Reported: 11/29/2011 12:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7601 SDG#: DE276-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	34	U	34	170	1
04688	2,4,6-Trichlorophenol	88-06-2	34	U	34	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.68	U	0.68	1.7	1
10138	Acenaphthylene	208-96-8	0.34	U	0.34	1.7	1
10138	Anthracene	120-12-7	1.6	J	0.34	1.7	1
10138	Benzo(a)anthracene	56-55-3	7.2		0.68	1.7	1
10138	Benzo(a)pyrene	50-32-8	9.2		0.68	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	25		0.68	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	4.5		0.68	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.68	U	0.68	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.2	U	6.2	18	1
10138	Di-n-butylphthalate	84-74-2	11	J	6.2	18	1
10138	Chrysene	218-01-9	12		0.34	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	2.0		0.68	1.7	1
10138	Diethylphthalate	84-66-2	6.2	U	6.2	18	1
10138	Dimethylphthalate	131-11-3	6.2	U	6.2	18	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	47		6.2	18	1
10138	Fluoranthene	206-44-0	24		0.68	1.7	1
10138	Fluorene	86-73-7	0.68	U	0.68	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.1		0.68	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.68	U	0.68	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.68	U	0.68	1.7	1
10138	Naphthalene	91-20-3	0.73	J	0.68	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.68	U	0.68	1.7	1
10138	Di-n-octylphthalate	117-84-0	10	J	6.2	18	1
10138	Phenanthrene	85-01-8	7.5		0.68	1.7	1
10138	Pyrene	129-00-0	19		0.68	1.7	1

The GC/MS semivolatile internal standard peak areas are outside of QC limits. The matrix spike sample was analyzed and internal standard peak areas are again outside of QC limits, indicating a matrix effect.

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 61 ug/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and bis(2-ethylhexyl)phthalate was not detected in the sample. Comparable data was not observed between the two extractions. The data reported here is from the initial extraction of the sample.

GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0	25.2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-091-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA7-SB

LLI Sample # SW 6454453
LLI Group # 1273859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2011 16:00

Submitted: 10/29/2011 09:15
Reported: 11/29/2011 12:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7601 SDG#: DE276-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.7	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.7	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.7	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.7	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.7	1
10225	PCB-1254	11097-69-1	0.66	J	0.34	1.7	1
10225	PCB-1260	11096-82-5	15		0.40	1.7	1
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.7	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.7	1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.						
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	510	1
10501	Isopropanol	67-63-0	100	U	100	510	1
10501	Methanol	67-56-1	100	U	100	510	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.1	U	5.1	10	1
08283	Ethylene glycol	107-21-1	5.1	U	5.1	10	1
08283	Propylene glycol	57-55-6	5.1	U	5.1	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.5	U	1.5	3.6	1
10318	o-Terphenyl	84-15-1	1.5	U	1.5	3.6	1
10318	p-Terphenyl	92-94-4	1.5	U	1.5	3.6	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.41	U	0.41	1.2	1
10199	EFH (C15-C20)	n.a.	1.2	J	0.41	1.2	1
10199	EFH (C21-C30)	n.a.	15		0.41	1.2	1
10199	EFH (C30 - C40)	n.a.	38		0.41	1.2	1
10199	EFH (C8-C11)	n.a.	0.41	U	0.41	1.2	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	10,800		5.91	19.5	1
07914	Boron	7440-42-8	6.67		0.352	4.88	1
01650	Calcium	7440-70-2	2,840		2.44	19.5	1
01654	Iron	7439-89-6	17,700		2.55	19.5	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-091-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA7-SB

LLI Sample # SW 6454453
LLI Group # 1273859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2011 16:00

Submitted: 10/29/2011 09:15
Reported: 11/29/2011 12:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7601 SDG#: DE276-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01656	Lithium	7439-93-2	24.6		0.61	2.0	1
01657	Magnesium	7439-95-4	3,810		0.430	9.77	1
06958	Manganese	7439-96-5	271		0.0352	0.488	1
10145	Phosphorus	7723-14-0	342		0.342	9.77	1
01662	Potassium	7440-09-7	2,970		11.0	48.8	1
01667	Sodium	7440-23-5	98.8		5.81	97.7	1
07968	Strontium	7440-24-6	11.9		0.0244	0.488	1
06969	Tin	7440-31-5	2.49	J	0.313	9.77	1
06970	Titanium	7440-32-6	952		0.0694	0.977	1
10146	Zirconium	7440-67-7	2.47	J	0.449	4.88	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0730	U	0.0730	0.197	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.48		0.0789	0.394	2
06126	Barium	7440-39-3	99.6		0.105	0.394	2
06127	Beryllium	7440-41-7	0.436		0.0158	0.0986	2
06128	Cadmium	7440-43-9	0.123		0.0434	0.0986	2
06131	Chromium	7440-47-3	15.2		0.118	0.394	2
06132	Cobalt	7440-48-4	5.85		0.0197	0.0986	2
06133	Copper	7440-50-8	6.85		0.0789	0.394	2
06135	Lead	7439-92-1	8.10		0.0101	0.197	2
06138	Molybdenum	7439-98-7	0.357		0.0493	0.0986	2
06139	Nickel	7440-02-0	9.84		0.0986	0.394	2
06141	Selenium	7782-49-2	0.0722	J	0.0572	0.394	2
06142	Silver	7440-22-4	0.0286	J	0.0140	0.0986	2
06145	Thallium	7440-28-0	0.303		0.0296	0.0986	2
06148	Vanadium	7440-62-2	29.2		0.0217	0.0986	2
06149	Zinc	7440-66-6	84.6		0.552	2.96	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0072	U	0.0072	0.102	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.83	U	0.83	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.2	U	9.2	30.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26	J	0.20	1.0	1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-091-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA7-SB

LLI Sample # SW 6454453
LLI Group # 1273859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2011 16:00

Submitted: 10/29/2011 09:15
Reported: 11/29/2011 12:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7601 SDG#: DE276-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		Std. Units	Std. Units	Std. Units	
00394	17a pH by 9045C	n.a.	8.17	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	2.5	0.50	0.50	1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-091-SA7-SB-3.0.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11304SLB026	11/14/2011 13:19	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11305SLD026	11/17/2011 00:20	Dale R Stoneroad	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11305SLD026	11/01/2011 19:00	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11304SLB026	11/01/2011 10:10	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11299A16B	11/01/2011 21:19	Laura M Krieger	25.2
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201130226015	10/29/2011 14:08	Stephanie A Sanchez	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201130226015	10/29/2011 14:08	Stephanie A Sanchez	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113060035A	11/09/2011 16:42	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113060035A	11/03/2011 11:00	Olivia Arosemena	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	113040033A	11/01/2011 20:16	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	113080023A	11/04/2011 22:57	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	113120010A	11/10/2011 03:14	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	113070014A	11/05/2011 08:01	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	113070014A	11/03/2011 19:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	113120010A	11/08/2011 18:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	113040033A	11/01/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	113080023A	11/04/2011 19:35	Tyler O Griffin	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-091-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA7-SB

LLI Sample # SW 6454453
LLI Group # 1273859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2011 16:00

Submitted: 10/29/2011 09:15
Reported: 11/29/2011 12:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7601 SDG#: DE276-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	113045708008	11/02/2011 07:19	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113045708008	11/02/2011 07:19	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113045708008	11/02/2011 07:19	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	113045708008	11/02/2011 07:19	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113045708008	11/02/2011 07:19	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113045708008	11/02/2011 07:19	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113045708008	11/02/2011 07:19	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113045708008	11/02/2011 07:19	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113045708008	11/02/2011 07:19	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113045708008	11/02/2011 07:19	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113045708008	11/02/2011 07:19	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113045708008	11/02/2011 07:19	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	113045708008	11/02/2011 07:19	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113045708008	11/02/2011 07:19	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113041026004A	11/03/2011 00:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113041026004A	11/03/2011 00:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113041026004D	11/03/2011 00:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113041026004A	11/06/2011 12:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	113041026004A	11/03/2011 00:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113041026004A	11/03/2011 00:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113041026004A	11/03/2011 00:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113041026004A	11/03/2011 00:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113041026004A	11/03/2011 00:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113041026004C	11/03/2011 00:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113041026004A	11/03/2011 00:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113041026004B	11/03/2011 00:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113041026004A	11/03/2011 00:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113041026004A	11/03/2011 00:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113041026004A	11/03/2011 00:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113041026004A	11/03/2011 00:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113045711007	11/02/2011 09:40	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113045708008	11/01/2011 11:48	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113041026004	11/01/2011 10:56	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113045711007	11/01/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11312621202A	11/08/2011 13:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11308621201A	11/04/2011 21:20	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11312243201A	11/09/2011 15:36	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11312102202A	11/08/2011 19:51	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11312621202A	11/08/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11308621201A	11/04/2011 06:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11312102202A	11/08/2011 16:25	Carolyn M Mastropietro	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11311039401A	11/07/2011 11:00	Michelle L Lalli	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-091-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA7-SB

LLI Sample # SW 6454453
LLI Group # 1273859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2011 16:00

Submitted: 10/29/2011 09:15
Reported: 11/29/2011 12:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7601 SDG#: DE276-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11312243201A	11/08/2011 08:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401A	11/07/2011 22:36	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-116-SA7-SB-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA7-SB

LLI Sample # SW 6454454
LLI Group # 1273859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 10:20

Submitted: 10/29/2011 09:15
Reported: 11/29/2011 12:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7602 SDG#: DE276-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Butylbenzylphthalate	85-68-7	17	U	17	170	1
04688	Di-n-butylphthalate	84-74-2	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	70	U	70	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	Diethylphthalate	84-66-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	Dimethylphthalate	131-11-3	17	U	17	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	J	17	350	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	70	U	70	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	70	U	70	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-116-SA7-SB-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA7-SB

LLI Sample # SW 6454454
LLI Group # 1273859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 10:20

Submitted: 10/29/2011 09:15
Reported: 11/29/2011 12:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7602 SDG#: DE276-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	17	U	17	170	1
04688	Pentachlorophenol	87-86-5	170	U	170	520	1
04688	Phenol	108-95-2	17	U	17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.5	U	3.5	8.7	5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.7	5
10138	Anthracene	120-12-7	1.7	U	1.7	8.7	5
10138	Benzo(a)anthracene	56-55-3	3.5	U	3.5	8.7	5
10138	Benzo(a)pyrene	50-32-8	3.5	U	3.5	8.7	5
10138	Benzo(b)fluoranthene	205-99-2	6.4	J	3.5	8.7	5
10138	Benzo(g,h,i)perylene	191-24-2	6.2	J	3.5	8.7	5
10138	Benzo(k)fluoranthene	207-08-9	3.5	U	3.5	8.7	5
10138	Chrysene	218-01-9	9.7		1.7	8.7	5
10138	Dibenz(a,h)anthracene	53-70-3	3.5	U	3.5	8.7	5
10138	Fluoranthene	206-44-0	3.5	U	3.5	8.7	5
10138	Fluorene	86-73-7	3.5	U	3.5	8.7	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.5	U	3.5	8.7	5
10138	1-Methylnaphthalene	90-12-0	3.5	U	3.5	8.7	5
10138	2-Methylnaphthalene	91-57-6	3.5	U	3.5	8.7	5
10138	Naphthalene	91-20-3	3.5	U	3.5	8.7	5
10138	N-Nitrosodimethylamine	62-75-9	3.5	U	3.5	8.7	5
10138	Phenanthrene	85-01-8	3.5	U	3.5	8.7	5
10138	Pyrene	129-00-0	3.5	U	3.5	8.7	5
	Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	2.6		0.35	1.8	1
10225	PCB-1260	11096-82-5	1.2	J	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-116-SA7-SB-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA7-SB

LLI Sample # SW 6454454
LLI Group # 1273859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 10:20

Submitted: 10/29/2011 09:15
Reported: 11/29/2011 12:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7602 SDG#: DE276-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520	1
10501	Isopropanol	67-63-0	100	U	100	520	1
10501	Methanol	67-56-1	100	U	100	520	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10	1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10	1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	8.4	U	8.4	25	20
10199	EFH (C15-C20)	n.a.	13	J	8.4	25	20
10199	EFH (C21-C30)	n.a.	180		8.4	25	20
10199	EFH (C30 - C40)	n.a.	410		8.4	25	20
10199	EFH (C8-C11)	n.a.	8.4	U	8.4	25	20
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	16,000		6.10	20.2	1
07914	Boron	7440-42-8	10.1		0.363	5.04	1
01650	Calcium	7440-70-2	3,170		2.52	20.2	1
01654	Iron	7439-89-6	21,600		2.63	20.2	1
01656	Lithium	7439-93-2	23.0		0.62	2.0	1
01657	Magnesium	7439-95-4	4,240		0.443	10.1	1
06958	Manganese	7439-96-5	287		0.0363	0.504	1
10145	Phosphorus	7723-14-0	326		0.353	10.1	1
01662	Potassium	7440-09-7	3,090		11.4	50.4	1
01667	Sodium	7440-23-5	974		6.00	101	1
07968	Strontium	7440-24-6	15.8		0.0252	0.504	1
06969	Tin	7440-31-5	2.52	J	0.323	10.1	1
06970	Titanium	7440-32-6	1,080		0.0716	1.01	1
10146	Zirconium	7440-67-7	3.66	J	0.464	5.04	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0861	J	0.0753	0.204	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.30		0.0814	0.407	2
06126	Barium	7440-39-3	111		0.108	0.407	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-116-SA7-SB-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA7-SB

LLI Sample # SW 6454454
LLI Group # 1273859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 10:20

Submitted: 10/29/2011 09:15
Reported: 11/29/2011 12:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7602 SDG#: DE276-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6020**		**mg/kg**		**mg/kg**	**mg/kg**	
06127	Beryllium	7440-41-7	0.525		0.0163	0.102	2
06128	Cadmium	7440-43-9	0.145		0.0448	0.102	2
06131	Chromium	7440-47-3	19.6		0.122	0.407	2
06132	Cobalt	7440-48-4	7.71		0.0204	0.102	2
06133	Copper	7440-50-8	9.73		0.0814	0.407	2
06135	Lead	7439-92-1	7.33		0.0104	0.204	2
06138	Molybdenum	7439-98-7	0.456		0.0509	0.102	2
06139	Nickel	7440-02-0	13.1		0.102	0.407	2
06141	Selenium	7782-49-2	0.0945	J	0.0590	0.407	2
06142	Silver	7440-22-4	0.0338	J	0.0145	0.102	2
06145	Thallium	7440-28-0	0.321		0.0305	0.102	2
06148	Vanadium	7440-62-2	38.4		0.0224	0.102	2
06149	Zinc	7440-66-6	69.5		0.570	3.05	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0070	U	0.0070	0.0996	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.9		0.84	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.41	J	0.21	1.0	1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.52	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.49		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.6		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-116-SA7-SB-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA7-SB

LLI Sample # SW 6454454
LLI Group # 1273859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 10:20

Submitted: 10/29/2011 09:15
Reported: 11/29/2011 12:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7602 SDG#: DE276-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11304SLB026	11/14/2011 13:44	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11305SLD026	11/20/2011 21:51	Linda M Hartenstine	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11305SLD026	11/01/2011 19:00	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11304SLB026	11/01/2011 10:10	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113150020A	11/18/2011 17:22	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	113150020A	11/11/2011 16:00	JoElla L Rice	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	113040033A	11/01/2011 20:32	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	113080023A	11/04/2011 23:36	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	113120010A	11/10/2011 03:59	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	113070014A	11/08/2011 02:22	Heather E Williams	20
11238	EFH Extraction - Soils	SW-846 3550B	1	113070014A	11/03/2011 19:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	113120010A	11/08/2011 18:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	113040033A	11/01/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	113080023A	11/04/2011 19:35	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	113045708008	11/02/2011 07:42	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113045708008	11/02/2011 07:42	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113045708008	11/02/2011 07:42	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	113045708008	11/02/2011 07:42	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113045708008	11/02/2011 07:42	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113045708008	11/02/2011 07:42	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113045708008	11/02/2011 07:42	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113045708008	11/02/2011 07:42	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113045708008	11/02/2011 07:42	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113045708008	11/02/2011 07:42	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113045708008	11/02/2011 07:42	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113045708008	11/02/2011 07:42	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	113045708008	11/02/2011 07:42	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113045708008	11/02/2011 07:42	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113041026004A	11/03/2011 00:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113041026004A	11/03/2011 00:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113041026004D	11/03/2011 00:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113041026004A	11/06/2011 12:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	113041026004A	11/03/2011 00:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113041026004A	11/03/2011 00:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113041026004A	11/03/2011 00:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113041026004A	11/03/2011 00:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113041026004A	11/03/2011 00:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113041026004C	11/03/2011 00:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113041026004A	11/03/2011 00:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113041026004B	11/03/2011 00:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113041026004A	11/03/2011 00:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113041026004A	11/03/2011 00:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113041026004A	11/03/2011 00:16	Choon Y Tian	2

*=This limit was used in the evaluation of the final result

Sample Description: **SL-116-SA7-SB-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA7-SB

LLI Sample # SW 6454454
LLI Group # 1273859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 10:20

Submitted: 10/29/2011 09:15
Reported: 11/29/2011 12:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7602 SDG#: DE276-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06149	Zinc	SW-846 6020	1	113041026004A	11/03/2011 00:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113045711007	11/02/2011 09:41	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113045708008	11/01/2011 11:48	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113041026004	11/01/2011 10:56	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113045711007	11/01/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11312621202A	11/08/2011 13:37	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11308621201A	11/04/2011 21:41	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11312243201A	11/09/2011 15:57	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11314102202A	11/10/2011 19:22	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11312621202A	11/08/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11308621201A	11/04/2011 06:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11314102202A	11/10/2011 09:55	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11311039401A	11/07/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11312243201A	11/08/2011 08:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401A	11/07/2011 22:36	Scott W Freisher	1

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-117-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA7-SB

LLI Sample # SW 6454455
LLI Group # 1273859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 09:15

Submitted: 10/29/2011 09:15
Reported: 11/29/2011 12:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7603 SDG#: DE276-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg		ug/kg	ug/kg	
04688	Aniline	62-53-3	1,700	U	1,700	5,200	1
04688	Benzidine	92-87-5	12,000	U	12,000	34,000	1
04688	Benzoic acid	65-85-0	1,700	U	1,700	5,200	1
04688	Benzyl alcohol	100-51-6	1,700	U	1,700	5,200	1
04688	4-Bromophenyl-phenylether	101-55-3	170	U	170	1,700	1
04688	Butylbenzylphthalate	85-68-7	170	U	170	1,700	1
04688	Di-n-butylphthalate	84-74-2	170	U	170	1,700	1
04688	Carbazole	86-74-8	170	U	170	1,700	1
04688	4-Chloro-3-methylphenol	59-50-7	340	U	340	1,700	1
04688	4-Chloroaniline	106-47-8	690	U	690	1,700	1
04688	bis(2-Chloroethoxy)methane	111-91-1	170	U	170	1,700	1
04688	bis(2-Chloroethyl)ether	111-44-4	170	U	170	1,700	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	170	U	170	1,700	1
04688	2-Chloronaphthalene	91-58-7	170	U	170	1,700	1
04688	2-Chlorophenol	95-57-8	170	U	170	1,700	1
04688	4-Chlorophenyl-phenylether	7005-72-3	340	U	340	1,700	1
04688	Dibenzofuran	132-64-9	170	U	170	1,700	1
04688	1,2-Dichlorobenzene	95-50-1	170	U	170	1,700	1
04688	1,3-Dichlorobenzene	541-73-1	170	U	170	1,700	1
04688	1,4-Dichlorobenzene	106-46-7	170	U	170	1,700	1
04688	3,3'-Dichlorobenzidine	91-94-1	1,000	U	1,000	3,400	1
04688	2,4-Dichlorophenol	120-83-2	170	U	170	1,700	1
04688	Diethylphthalate	84-66-2	170	U	170	1,700	1
04688	2,4-Dimethylphenol	105-67-9	340	U	340	1,700	1
04688	3,5-Dimethylphenol	108-68-9	340	U	340	1,700	1
04688	Dimethylphthalate	131-11-3	170	U	170	1,700	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,700	U	1,700	5,200	1
04688	2,4-Dinitrophenol	51-28-5	3,400	U	3,400	10,000	1
04688	2,4-Dinitrotoluene	121-14-2	340	U	340	1,700	1
04688	2,6-Dinitrotoluene	606-20-2	170	U	170	1,700	1
04688	1,2-Diphenylhydrazine	122-66-7	170	U	170	1,700	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	170	U	170	3,400	1
04688	Hexachlorobenzene	118-74-1	170	U	170	1,700	1
04688	Hexachlorobutadiene	87-68-3	690	U	690	1,700	1
04688	Hexachlorocyclopentadiene	77-47-4	1,700	U	1,700	5,200	1
04688	Hexachloroethane	67-72-1	170	U	170	1,700	1
04688	Isophorone	78-59-1	170	U	170	1,700	1
04688	2-Methylphenol	95-48-7	340	U	340	1,700	1
04688	4-Methylphenol	106-44-5	340	U	340	1,700	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	170	U	170	1,700	1
04688	2-Nitroaniline	88-74-4	170	U	170	1,700	1
04688	3-Nitroaniline	99-09-2	340	U	340	1,700	1
04688	4-Nitroaniline	100-01-6	690	U	690	1,700	1
04688	Nitrobenzene	98-95-3	170	U	170	1,700	1
04688	2-Nitrophenol	88-75-5	170	U	170	1,700	1
04688	4-Nitrophenol	100-02-7	1,700	U	1,700	5,200	1
04688	N-Nitroso-di-n-propylamine	621-64-7	170	U	170	1,700	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-117-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA7-SB

LLI Sample # SW 6454455
LLI Group # 1273859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 09:15

Submitted: 10/29/2011 09:15
Reported: 11/29/2011 12:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7603 SDG#: DE276-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	N-Nitrosodiphenylamine	86-30-6	170	U	170	1,700	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	170	U	170	1,700	1
04688	Pentachlorophenol	87-86-5	1,700	U	1,700	5,200	1
04688	Phenol	108-95-2	170	U	170	1,700	1
04688	Tetralin	119-64-2	1,700	U	1,700	1,700	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	170	U	170	1,700	1
04688	2,4,5-Trichlorophenol	95-95-4	340	U	340	1,700	1
04688	2,4,6-Trichlorophenol	88-06-2	340	U	340	1,700	1
	Reporting limits were raised due to interference from the sample matrix.						
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	3.5	U	3.5	8.7	5
10138	Acenaphthylene	208-96-8	1.7	U	1.7	8.7	5
10138	Anthracene	120-12-7	1.7	U	1.7	8.7	5
10138	Benzo(a)anthracene	56-55-3	3.5	U	3.5	8.7	5
10138	Benzo(a)pyrene	50-32-8	3.5	U	3.5	8.7	5
10138	Benzo(b)fluoranthene	205-99-2	3.5	U	3.5	8.7	5
10138	Benzo(g,h,i)perylene	191-24-2	5.0	J	3.5	8.7	5
10138	Benzo(k)fluoranthene	207-08-9	3.5	U	3.5	8.7	5
10138	Chrysene	218-01-9	2.8	J	1.7	8.7	5
10138	Dibenz(a,h)anthracene	53-70-3	3.5	U	3.5	8.7	5
10138	Fluoranthene	206-44-0	3.5	U	3.5	8.7	5
10138	Fluorene	86-73-7	3.5	U	3.5	8.7	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.5	U	3.5	8.7	5
10138	1-Methylnaphthalene	90-12-0	3.5	U	3.5	8.7	5
10138	2-Methylnaphthalene	91-57-6	3.5	U	3.5	8.7	5
10138	Naphthalene	91-20-3	3.5	U	3.5	8.7	5
10138	N-Nitrosodimethylamine	62-75-9	3.5	U	3.5	8.7	5
10138	Phenanthrene	85-01-8	3.5	U	3.5	8.7	5
10138	Pyrene	129-00-0	3.5	U	3.5	8.7	5
	Reporting limits were raised due to interference from the sample matrix.						
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.4	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.4	1
10225	Aroclor 5460	11126-42-4	4.9		1.0	3.4	1
10225	PCB-1016	12674-11-2	0.34	U	0.34	1.8	1
10225	PCB-1221	11104-28-2	0.34	U	0.34	1.8	1
10225	PCB-1232	11141-16-5	0.34	U	0.34	1.8	1
10225	PCB-1242	53469-21-9	0.34	U	0.34	1.8	1
10225	PCB-1248	12672-29-6	0.34	U	0.34	1.8	1
10225	PCB-1254	11097-69-1	8.8		0.34	1.8	1
10225	PCB-1260	11096-82-5	4.0		0.41	1.8	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-117-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA7-SB

LLI Sample # SW 6454455
LLI Group # 1273859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 09:15

Submitted: 10/29/2011 09:15
Reported: 11/29/2011 12:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7603 SDG#: DE276-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1262	37324-23-5	0.34	U	0.34	1.8	1
10225	PCB-1268	11100-14-4	0.34	U	0.34	1.8	1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.						
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,900		6.07	20.1	1
07914	Boron	7440-42-8	7.77		0.361	5.02	1
01650	Calcium	7440-70-2	2,970		2.51	20.1	1
01654	Iron	7439-89-6	19,500		2.62	20.1	1
01656	Lithium	7439-93-2	23.9		0.62	2.0	1
01657	Magnesium	7439-95-4	4,190		0.442	10.0	1
06958	Manganese	7439-96-5	274		0.0361	0.502	1
10145	Phosphorus	7723-14-0	312		0.351	10.0	1
01662	Potassium	7440-09-7	2,800		11.3	50.2	1
01667	Sodium	7440-23-5	75.8	J	5.97	100	1
07968	Strontium	7440-24-6	14.0		0.0251	0.502	1
06969	Tin	7440-31-5	2.65	J	0.321	10.0	1
06970	Titanium	7440-32-6	1,000		0.0713	1.00	1
10146	Zirconium	7440-67-7	3.19	J	0.462	5.02	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0797	J	0.0736	0.199	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.58		0.0795	0.398	2
06126	Barium	7440-39-3	112		0.105	0.398	2
06127	Beryllium	7440-41-7	0.532		0.0159	0.0994	2
06128	Cadmium	7440-43-9	0.148		0.0437	0.0994	2
06131	Chromium	7440-47-3	21.1		0.119	0.398	2
06132	Cobalt	7440-48-4	7.77		0.0199	0.0994	2
06133	Copper	7440-50-8	9.08		0.0795	0.398	2
06135	Lead	7439-92-1	7.65		0.0101	0.199	2
06138	Molybdenum	7439-98-7	0.430		0.0497	0.0994	2
06139	Nickel	7440-02-0	13.5		0.0994	0.398	2
06141	Selenium	7782-49-2	0.111	J	0.0577	0.398	2
06142	Silver	7440-22-4	0.0309	J	0.0141	0.0994	2
06145	Thallium	7440-28-0	0.325		0.0298	0.0994	2
06148	Vanadium	7440-62-2	39.2		0.0219	0.0994	2
06149	Zinc	7440-66-6	63.5		0.557	2.98	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0071	U	0.0071	0.101	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7		0.84	1.1	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-117-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA7-SB

LLI Sample # SW 6454455
LLI Group # 1273859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 09:15

Submitted: 10/29/2011 09:15
Reported: 11/29/2011 12:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7603 SDG#: DE276-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 314.0**		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.3	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	1.4		0.21	1.0	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	7.54		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.2		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11304SLB026	11/14/2011 14:10	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11305SLD026	11/20/2011 22:24	Linda M Hartenstine	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11305SLD026	11/01/2011 19:00	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11304SLB026	11/01/2011 10:10	Denise L Trimby	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113060035A	11/09/2011 17:19	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113060035A	11/03/2011 11:00	Olivia Arosemena	1
01643	Aluminum	SW-846 6010B	1	113045708008	11/02/2011 07:54	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113045708008	11/02/2011 07:54	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113045708008	11/02/2011 07:54	Tara L Snyder	1
01654	Iron	SW-846 6010B	1	113045708008	11/02/2011 07:54	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113045708008	11/02/2011 07:54	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113045708008	11/02/2011 07:54	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113045708008	11/02/2011 07:54	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113045708008	11/02/2011 07:54	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113045708008	11/02/2011 07:54	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113045708008	11/02/2011 07:54	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113045708008	11/02/2011 07:54	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-117-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA7-SB

LLI Sample # SW 6454455
LLI Group # 1273859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 09:15

Submitted: 10/29/2011 09:15
Reported: 11/29/2011 12:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7603 SDG#: DE276-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	113045708008	11/02/2011 07:54	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	113045708008	11/02/2011 07:54	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113045708008	11/02/2011 07:54	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113041026004A	11/02/2011 23:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113041026004A	11/02/2011 23:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113041026004D	11/02/2011 23:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113041026004A	11/06/2011 12:27	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	113041026004A	11/02/2011 23:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113041026004A	11/02/2011 23:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113041026004A	11/02/2011 23:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113041026004A	11/02/2011 23:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113041026004A	11/02/2011 23:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113041026004C	11/02/2011 23:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113041026004A	11/02/2011 23:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113041026004B	11/02/2011 23:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113041026004A	11/02/2011 23:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113041026004A	11/02/2011 23:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113041026004A	11/02/2011 23:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113041026004A	11/02/2011 23:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113045711007	11/02/2011 09:42	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113045708008	11/01/2011 11:48	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113041026004	11/01/2011 10:56	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113045711007	11/01/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11312621202A	11/08/2011 13:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11308621201A	11/04/2011 22:02	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11312243201A	11/09/2011 16:03	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11312621202A	11/08/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11308621201A	11/04/2011 06:50	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11311039401B	11/07/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11312243201A	11/08/2011 08:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401A	11/07/2011 22:36	Scott W Freisher	1

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Analysis Report

Sample Description: SL-118-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA7-SB

LLI Sample # SW 6454456
LLI Group # 1273859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 11:20

Submitted: 10/29/2011 09:15
Reported: 11/29/2011 12:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7604 SDG#: DE276-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,600	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	36	U	36	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U	36	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	360	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	36	U	36	180	1
04688	3,5-Dimethylphenol	108-68-9	36	U	36	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	360	U	360	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	36	U	36	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	36	U	36	180	1
04688	4-Methylphenol	106-44-5	36	U	36	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1
04688	3-Nitroaniline	99-09-2	36	U	36	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-118-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA7-SB

LLI Sample # SW 6454456
LLI Group # 1273859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 11:20

Submitted: 10/29/2011 09:15
Reported: 11/29/2011 12:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7604 SDG#: DE276-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Tetralin	119-64-2	180	U	180	180	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	36	U	36	180	1
04688	2,4,6-Trichlorophenol	88-06-2	36	U	36	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U	0.36	1.8	1
10138	Anthracene	120-12-7	0.40	J	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.78	J	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	1.7	J	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	7.6	J	6.4	19	1
10138	Chrysene	218-01-9	1.9		0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	17	J	6.4	19	1
10138	Fluoranthene	206-44-0	0.86	J	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.72	J	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.72	J	0.71	1.8	1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8	1
	Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 61 ug/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and bis(2-ethylhexyl)phthalate was again detected in the re-analysis of the sample at 6 ug/kg. Comparable data was not observed between the two extractions. The data reported here is from the initial extraction of the sample.						
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0	24.18
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-118-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA7-SB

LLI Sample # SW 6454456
LLI Group # 1273859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 11:20

Submitted: 10/29/2011 09:15
Reported: 11/29/2011 12:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7604 SDG#: DE276-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.45	J	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.78	J	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.						
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530	1
10501	Isopropanol	67-63-0	110	U	110	530	1
10501	Methanol	67-56-1	110	U	110	530	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11	1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11	1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3	1
10199	EFH (C15-C20)	n.a.	1.3		0.43	1.3	1
10199	EFH (C21-C30)	n.a.	12		0.43	1.3	1
10199	EFH (C30 - C40)	n.a.	52		0.43	1.3	1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	18,400		6.28	20.8	1
07914	Boron	7440-42-8	10.5		0.374	5.19	1
01650	Calcium	7440-70-2	5,180		2.60	20.8	1
01654	Iron	7439-89-6	23,200		2.71	20.8	1
01656	Lithium	7439-93-2	23.1		0.64	2.1	1
01657	Magnesium	7439-95-4	4,790		0.457	10.4	1
06958	Manganese	7439-96-5	292		0.0374	0.519	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-118-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA7-SB

LLI Sample # SW 6454456
LLI Group # 1273859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 11:20

Submitted: 10/29/2011 09:15
Reported: 11/29/2011 12:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7604 SDG#: DE276-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
10145	Phosphorus	7723-14-0	310		0.363	10.4	1
01662	Potassium	7440-09-7	3,100		11.7	51.9	1
01667	Sodium	7440-23-5	291		6.18	104	1
07968	Strontium	7440-24-6	22.0		0.0260	0.519	1
06969	Tin	7440-31-5	2.63	J	0.332	10.4	1
06970	Titanium	7440-32-6	1,070		0.0737	1.04	1
10146	Zirconium	7440-67-7	4.26	J	0.478	5.19	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0768	U	0.0768	0.208	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.87		0.0831	0.415	2
06126	Barium	7440-39-3	96.4		0.110	0.415	2
06127	Beryllium	7440-41-7	0.818		0.0166	0.104	2
06128	Cadmium	7440-43-9	0.133		0.0457	0.104	2
06131	Chromium	7440-47-3	19.0		0.125	0.415	2
06132	Cobalt	7440-48-4	6.76		0.0208	0.104	2
06133	Copper	7440-50-8	8.84		0.0831	0.415	2
06135	Lead	7439-92-1	6.88		0.0106	0.208	2
06138	Molybdenum	7439-98-7	0.357		0.0519	0.104	2
06139	Nickel	7440-02-0	11.9		0.104	0.415	2
06141	Selenium	7782-49-2	0.0840	J	0.0602	0.415	2
06142	Silver	7440-22-4	0.0261	J	0.0147	0.104	2
06145	Thallium	7440-28-0	0.285		0.0312	0.104	2
06148	Vanadium	7440-62-2	34.2		0.0228	0.104	2
06149	Zinc	7440-66-6	51.0		0.581	3.12	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0074	U	0.0074	0.105	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.5		0.86	1.1	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	32.1	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.34	J	0.21	1.1	1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.19	U	0.19	0.53	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.56		0.0100	0.0100	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-118-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA7-SB

LLI Sample # SW 6454456
LLI Group # 1273859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 11:20

Submitted: 10/29/2011 09:15
Reported: 11/29/2011 12:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7604 SDG#: DE276-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	6.5	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-118-SA7-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11304SLB026	11/14/2011 14:36	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11305SLD026	11/20/2011 22:59	Linda M Hartenstine	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11305SLD026	11/01/2011 19:00	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11304SLB026	11/01/2011 10:10	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11299A16B	11/01/2011 21:57	Laura M Krieger	24.18
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201130226015	10/29/2011 14:06	Stephanie A Sanchez	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201130226015	10/29/2011 14:07	Stephanie A Sanchez	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113060035A	11/09/2011 17:38	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113060035A	11/03/2011 11:00	Olivia Arosemena	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	113040033A	11/01/2011 20:49	Elizabeth J Marin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	113040033A	11/02/2011 17:45	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	113080023A	11/04/2011 23:49	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	113120010A	11/10/2011 01:24	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	113070014A	11/05/2011 08:48	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	113070014A	11/03/2011 19:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	113120010A	11/08/2011 18:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	113040033A	11/01/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	113080023A	11/04/2011 19:35	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	113045708008	11/02/2011 07:58	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113045708008	11/02/2011 07:58	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113045708008	11/02/2011 07:58	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-118-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA7-SB

LLI Sample # SW 6454456
LLI Group # 1273859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 11:20

Submitted: 10/29/2011 09:15
Reported: 11/29/2011 12:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7604 SDG#: DE276-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	113045708008	11/02/2011 07:58	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113045708008	11/02/2011 07:58	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113045708008	11/02/2011 07:58	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113045708008	11/02/2011 07:58	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113045708008	11/02/2011 07:58	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113045708008	11/02/2011 07:58	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113045708008	11/02/2011 07:58	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113045708008	11/02/2011 07:58	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113045708008	11/02/2011 07:58	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	113045708008	11/02/2011 07:58	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113045708008	11/02/2011 07:58	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113041026004A	11/03/2011 00:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113041026004A	11/03/2011 00:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113041026004D	11/03/2011 00:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113041026004A	11/06/2011 12:53	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	113041026004A	11/03/2011 00:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113041026004A	11/03/2011 00:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113041026004A	11/03/2011 00:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113041026004A	11/03/2011 00:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113041026004A	11/03/2011 00:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113041026004C	11/03/2011 00:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113041026004A	11/03/2011 00:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113041026004B	11/03/2011 00:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113041026004A	11/03/2011 00:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113041026004A	11/03/2011 00:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113041026004A	11/03/2011 00:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113041026004A	11/03/2011 00:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113045711007	11/02/2011 09:46	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113045708008	11/01/2011 11:48	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113041026004	11/01/2011 10:56	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113045711007	11/01/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11312621202B	11/08/2011 14:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11308621201B	11/04/2011 22:23	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11312243201A	11/09/2011 16:17	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11314102202A	11/10/2011 19:26	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11312621202B	11/08/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11308621201B	11/04/2011 06:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11314102202A	11/10/2011 09:55	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11311039401B	11/07/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11312243201A	11/08/2011 08:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401A	11/07/2011 22:36	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-119-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA7-SB

LLI Sample # SW 6454457
LLI Group # 1273859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 14:40

Submitted: 10/29/2011 09:15
Reported: 11/29/2011 12:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7605 SDG#: DE276-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	170	U	170	520	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	170	U	170	520	1
04688	Benzyl alcohol	100-51-6	170	U	170	520	1
04688	4-Bromophenyl-phenylether	101-55-3	17	U	17	170	1
04688	Carbazole	86-74-8	17	U	17	170	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	170	1
04688	4-Chloroaniline	106-47-8	69	U	69	170	1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U	17	170	1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U	17	170	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U	17	170	1
04688	2-Chloronaphthalene	91-58-7	17	U	17	170	1
04688	2-Chlorophenol	95-57-8	17	U	17	170	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	170	1
04688	Dibenzofuran	132-64-9	17	U	17	170	1
04688	1,2-Dichlorobenzene	95-50-1	17	U	17	170	1
04688	1,3-Dichlorobenzene	541-73-1	17	U	17	170	1
04688	1,4-Dichlorobenzene	106-46-7	17	U	17	170	1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U	100	350	1
04688	2,4-Dichlorophenol	120-83-2	17	U	17	170	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	170	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	170	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U	170	520	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,000	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	170	1
04688	2,6-Dinitrotoluene	606-20-2	17	U	17	170	1
04688	1,2-Diphenylhydrazine	122-66-7	17	U	17	170	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	34	J	17	350	1
04688	Hexachlorobenzene	118-74-1	17	U	17	170	1
04688	Hexachlorobutadiene	87-68-3	69	U	69	170	1
04688	Hexachlorocyclopentadiene	77-47-4	170	U	170	520	1
04688	Hexachloroethane	67-72-1	17	U	17	170	1
04688	Isophorone	78-59-1	17	U	17	170	1
04688	2-Methylphenol	95-48-7	35	U	35	170	1
04688	4-Methylphenol	106-44-5	35	U	35	170	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U	17	170	1
04688	3-Nitroaniline	99-09-2	35	U	35	170	1
04688	4-Nitroaniline	100-01-6	69	U	69	170	1
04688	Nitrobenzene	98-95-3	17	U	17	170	1
04688	2-Nitrophenol	88-75-5	17	U	17	170	1
04688	4-Nitrophenol	100-02-7	170	U	170	520	1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U	17	170	1
04688	N-Nitrosodiphenylamine	86-30-6	17	U	17	170	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U	170	520	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-119-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA7-SB

LLI Sample # SW 6454457
LLI Group # 1273859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 14:40

Submitted: 10/29/2011 09:15
Reported: 11/29/2011 12:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7605 SDG#: DE276-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	Phenol	108-95-2	17	U	17	170	1
04688	Tetralin	119-64-2	170	U	170	170	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	17	U	17	170	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	170	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	170	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.70	U	0.70	1.7	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.7	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	0.70	U	0.70	1.7	1
10138	Benzo(a)pyrene	50-32-8	0.70	U	0.70	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	1.1	J	0.70	1.7	1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U	0.70	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U	0.70	1.7	1
10138	Butylbenzylphthalate	85-68-7	6.3	U	6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U	6.3	19	1
10138	Chrysene	218-01-9	1.5	J	0.35	1.7	1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U	0.70	1.7	1
10138	Diethylphthalate	84-66-2	6.3	U	6.3	19	1
10138	Dimethylphthalate	131-11-3	6.3	U	6.3	19	1
10138	Fluoranthene	206-44-0	0.70	U	0.70	1.7	1
10138	Fluorene	86-73-7	0.70	U	0.70	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U	0.70	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.70	U	0.70	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.70	U	0.70	1.7	1
10138	Naphthalene	91-20-3	0.70	U	0.70	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U	0.70	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.3	U	6.3	19	1
10138	Phenanthrene	85-01-8	0.70	U	0.70	1.7	1
10138	Pyrene	129-00-0	0.70	U	0.70	1.7	1
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.1	25.46
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.0	U	1.0	3.5	1
10225	Aroclor 5442	12642-23-8	1.0	U	1.0	3.5	1
10225	Aroclor 5460	11126-42-4	1.0	U	1.0	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-119-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA7-SB

LLI Sample # SW 6454457
LLI Group # 1273859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 14:40

Submitted: 10/29/2011 09:15
Reported: 11/29/2011 12:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7605 SDG#: DE276-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.47	J	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
	The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported. The surrogate recovery was outside the client specified QC limits. However, the recovery is within our in house statistical limits of 53-142%. The data is reported.						
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	100	U	100	520	1
10501	Isopropanol	67-63-0	100	U	100	520	1
10501	Methanol	67-56-1	100	U	100	520	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.2	U	5.2	10	1
08283	Ethylene glycol	107-21-1	5.2	U	5.2	10	1
08283	Propylene glycol	57-55-6	5.2	U	5.2	10	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3	1
10199	EFH (C15-C20)	n.a.	0.99	J	0.42	1.3	1
10199	EFH (C21-C30)	n.a.	12		0.42	1.3	1
10199	EFH (C30 - C40)	n.a.	25		0.42	1.3	1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,800		6.22	20.6	1
07914	Boron	7440-42-8	8.78		0.370	5.14	1
01650	Calcium	7440-70-2	2,930		2.57	20.6	1
01654	Iron	7439-89-6	20,800		2.68	20.6	1
01656	Lithium	7439-93-2	23.2		0.64	2.1	1
01657	Magnesium	7439-95-4	4,220		0.452	10.3	1
06958	Manganese	7439-96-5	268		0.0370	0.514	1
10145	Phosphorus	7723-14-0	326		0.360	10.3	1
01662	Potassium	7440-09-7	3,230		11.6	51.4	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-119-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA7-SB

LLI Sample # SW 6454457
LLI Group # 1273859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 14:40

Submitted: 10/29/2011 09:15
Reported: 11/29/2011 12:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7605 SDG#: DE276-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01667	Sodium	7440-23-5	113		6.11	103	1
07968	Strontium	7440-24-6	17.5		0.0257	0.514	1
06969	Tin	7440-31-5	2.72	J	0.329	10.3	1
06970	Titanium	7440-32-6	1,070		0.0730	1.03	1
10146	Zirconium	7440-67-7	3.52	J	0.473	5.14	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0746	U	0.0746	0.202	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.34		0.0806	0.403	2
06126	Barium	7440-39-3	85.2		0.107	0.403	2
06127	Beryllium	7440-41-7	0.840		0.0161	0.101	2
06128	Cadmium	7440-43-9	0.0893	J	0.0443	0.101	2
06131	Chromium	7440-47-3	16.2		0.121	0.403	2
06132	Cobalt	7440-48-4	5.39		0.0202	0.101	2
06133	Copper	7440-50-8	9.07		0.0806	0.403	2
06135	Lead	7439-92-1	5.49		0.0103	0.202	2
06138	Molybdenum	7439-98-7	0.359		0.0504	0.101	2
06139	Nickel	7440-02-0	9.81		0.101	0.403	2
06141	Selenium	7782-49-2	0.0707	J	0.0585	0.403	2
06142	Silver	7440-22-4	0.0188	J	0.0143	0.101	2
06145	Thallium	7440-28-0	0.249		0.0302	0.101	2
06148	Vanadium	7440-62-2	29.0		0.0222	0.101	2
06149	Zinc	7440-66-6	49.4		0.564	3.02	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0070	U	0.0070	0.0994	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.5		0.83	1.0	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4	U	9.4	31.4	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.31	J	0.21	1.0	1
	SW-846 9012B		**mg/kg**		**mg/kg**	**mg/kg**	
05895	16a Cyanide by 9012B	57-12-5	0.18	U	0.18	0.51	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.28		0.0100	0.0100	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-119-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-119-SA7-SB

LLI Sample # SW 6454457
LLI Group # 1273859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 14:40

Submitted: 10/29/2011 09:15
Reported: 11/29/2011 12:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7605 SDG#: DE276-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	4.6	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-119-SA7-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a SVOCs with Tetralin 8270C	SW-846 8270C	1	11304SLB026	11/14/2011 15:01	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11305SLD026	11/20/2011 23:33	Linda M Hartenstine	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11305SLD026	11/01/2011 19:00	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11304SLB026	11/01/2011 10:10	Denise L Trimby	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11299A16B	11/01/2011 22:34	Laura M Krieger	25.46
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201130226015	10/29/2011 14:09	Stephanie A Sanchez	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201130226015	10/29/2011 14:09	Stephanie A Sanchez	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113060035A	11/09/2011 17:57	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113060035A	11/03/2011 11:00	Olivia Arosemena	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	113040033A	11/01/2011 21:05	Elizabeth J Marin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	113040033A	11/02/2011 18:01	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	113080023A	11/05/2011 00:01	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	113120010A	11/10/2011 02:08	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	113070014A	11/05/2011 07:37	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	113070014A	11/03/2011 19:00	Sally L Appleyard	1
10303	Terphenyls soil prep	SW-846 3550B	1	113120010A	11/08/2011 18:45	Sally L Appleyard	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	113040033A	11/01/2011 18:00	Elizabeth J Marin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	113080023A	11/04/2011 19:35	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	113045708008	11/02/2011 08:02	Tara L Snyder	1
07914	Boron	SW-846 6010B	1	113045708008	11/02/2011 08:02	Tara L Snyder	1
01650	Calcium	SW-846 6010B	1	113045708008	11/02/2011 08:02	Tara L Snyder	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-119-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA7-SB

LLI Sample # SW 6454457
LLI Group # 1273859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 14:40

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7605 SDG#: DE276-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	113045708008	11/02/2011 08:02	Tara L Snyder	1
01656	Lithium	SW-846 6010B	1	113045708008	11/02/2011 08:02	Tara L Snyder	1
01657	Magnesium	SW-846 6010B	1	113045708008	11/02/2011 08:02	Tara L Snyder	1
06958	Manganese	SW-846 6010B	1	113045708008	11/02/2011 08:02	Tara L Snyder	1
10145	Phosphorus	SW-846 6010B	1	113045708008	11/02/2011 08:02	Tara L Snyder	1
01662	Potassium	SW-846 6010B	1	113045708008	11/02/2011 08:02	Tara L Snyder	1
01667	Sodium	SW-846 6010B	1	113045708008	11/02/2011 08:02	Tara L Snyder	1
07968	Strontium	SW-846 6010B	1	113045708008	11/02/2011 08:02	Tara L Snyder	1
06969	Tin	SW-846 6010B	1	113045708008	11/02/2011 08:02	Tara L Snyder	1
06970	Titanium	SW-846 6010B	1	113045708008	11/02/2011 08:02	Tara L Snyder	1
10146	Zirconium	SW-846 6010B	1	113045708008	11/02/2011 08:02	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	113041026004A	11/03/2011 00:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113041026004A	11/03/2011 00:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113041026004D	11/03/2011 00:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113041026004A	11/06/2011 12:55	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	113041026004A	11/03/2011 00:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113041026004A	11/03/2011 00:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113041026004A	11/03/2011 00:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113041026004A	11/03/2011 00:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113041026004A	11/03/2011 00:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113041026004C	11/03/2011 00:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113041026004A	11/03/2011 00:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113041026004B	11/03/2011 00:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113041026004A	11/03/2011 00:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113041026004A	11/03/2011 00:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113041026004A	11/03/2011 00:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113041026004A	11/03/2011 00:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113045711007	11/02/2011 09:48	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113045708008	11/01/2011 11:48	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113041026004	11/01/2011 10:56	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113045711007	11/01/2011 13:30	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11312621202B	11/08/2011 14:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11308621201B	11/04/2011 23:47	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11312243201A	11/09/2011 16:30	Elyse P Brunstetter	1
05895	16a Cyanide by 9012B	SW-846 9012B	1	11314102202A	11/10/2011 19:27	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11312621202B	11/08/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11308621201B	11/04/2011 06:50	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11314102202A	11/10/2011 09:55	Nancy J Shoop	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11311039401B	11/07/2011 11:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11312243201A	11/08/2011 08:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401A	11/07/2011 22:36	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **TB-102811 Water**
SSFL Area IV Collocated Soil Sampling
TB

LLI Sample # WW 6454458
LLI Group # 1273859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 14:30

Submitted: 10/29/2011 09:15
Reported: 11/29/2011 12:20

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7606 SDG#: DE276-06TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11304A20A	11/01/2011 16:33	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11304A20A	11/01/2011 16:33	Marie D John	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273859
Reported: 11/29/11 at 12:20 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11304SLB026	Sample number(s): 6454453-6454457									
Aniline	170 U		170.	500	ug/kg	65		20-115		
Benzidine	1,200 U		1,200.	3,300	ug/kg	53		15-121		
Benzoic acid	170 U		170.	500	ug/kg	72		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	86		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	107		73-114		
Butylbenzylphthalate	17	U	17.	170	ug/kg	89		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	99		79-112		
Carbazole	17	U	17.	170	ug/kg	99		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	89		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	45		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	95		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	85		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	85		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	92		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	95		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	100		74-115		
Dibenzofuran	17	U	17.	170	ug/kg	99		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	88		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	86		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	86		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	55		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	103		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	95		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	93		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	104		83-120		
Dimethylphthalate	17	U	17.	170	ug/kg	98		77-109		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	90		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	77		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	96		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	99		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	90		71-125		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	87		75-117		
Hexachlorobenzene	17	U	17.	170	ug/kg	112		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	99		65-117		
Hexachlorocyclopentadiene	170 U		170.	500	ug/kg	63		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	79		61-109		
Isophorone	17	U	17.	170	ug/kg	85		69-110		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273859
Reported: 11/29/11 at 12:20 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Methylphenol	33	U	33.	170	ug/kg	96		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	89		66-117		
Naphthalene	17	U	17.	170	ug/kg	97		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	94		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	88		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	66		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	86		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	90		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	66		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	76		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	106		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	100		62-137		
Pentachlorophenol	170	U	170.	500	ug/kg	111		51-117		
Phenol	17	U	17.	170	ug/kg	90		58-112		
Tetralin	170	U	170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	98		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	99		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	101		78-111		
Batch number: 11305SLD026	Sample number(s): 6454453-6454457									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	99		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	97		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	102		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	103		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	102		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	112		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	108		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	99		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	108		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	124		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	103		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	109		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	123		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	113		79-121		
Bis(2-Ethylhexyl)phthalate	61		6.0	18	ug/kg	137		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	105		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	107		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	107		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	95		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	95		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	93		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	112		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	99		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	98		72-119		
Batch number: 11299A16B	Sample number(s): 6454453,6454456-6454457									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	74	75	67-119	2	30
Batch number: 11304A20A	Sample number(s): 6454458									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 113060035A	Sample number(s): 6454453,6454455-6454457									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	101	115*	36-106	12	30

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273859
Reported: 11/29/11 at 12:20 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	149*		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	184*		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 113150020A	Sample number(s): 6454454									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	71	71	36-106	0	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	79		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	86		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 113040033A	Sample number(s): 6454453-6454454,6454456-6454457									
Ethanol	100 U		100.	500	ug/kg	93		71-129		
Isopropanol	100 U		100.	500	ug/kg	90		75-125		
Methanol	100 U		100.	500	ug/kg	106		68-129		
Batch number: 113080023A	Sample number(s): 6454453-6454454,6454456-6454457									
Diethylene glycol	5.0	U	5.0	10	mg/kg	99		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	103		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	96		67-131		
Batch number: 113070014A	Sample number(s): 6454453-6454454,6454456-6454457									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	123		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	112		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	117		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	91		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	142*		49-107		
Batch number: 113120010A	Sample number(s): 6454453-6454454,6454456-6454457									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	107		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	109		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	109		69-109		
Batch number: 113041026004A	Sample number(s): 6454453-6454457									
Antimony	0.0725	U	0.0725	0.196	mg/kg	67		40-227		
Arsenic	0.0784	U	0.0784	0.392	mg/kg	99		83-111		
Beryllium	0.0157	U	0.0157	0.0980	mg/kg	100		84-112		
Cadmium	0.0431	U	0.0431	0.0980	mg/kg	103		83-111		
Chromium	0.118	U	0.118	0.392	mg/kg	104		77-123		
Cobalt	0.0196	U	0.0196	0.0980	mg/kg	108		85-114		
Copper	0.0784	U	0.0784	0.392	mg/kg	104		81-110		

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273859
Reported: 11/29/11 at 12:20 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Lead	0.0100	U	0.0100	0.196	mg/kg	97		84-112		
Nickel	0.0980	U	0.0980	0.392	mg/kg	99		81-110		
Silver	0.0139	U	0.0139	0.0980	mg/kg	100		83-112		
Thallium	0.0294	U	0.0294	0.0980	mg/kg	100		82-112		
Vanadium	0.0216	U	0.0216	0.0980	mg/kg	93		76-110		
Zinc	0.549	U	0.549	2.94	mg/kg	98		82-110		
Batch number: 113041026004B	Sample number(s): 6454453-6454457									
Selenium	0.0569	U	0.0569	0.392	mg/kg	99		79-110		
Batch number: 113041026004C	Sample number(s): 6454453-6454457									
Molybdenum	0.0490	U	0.0490	0.0980	mg/kg	97		80-110		
Batch number: 113041026004D	Sample number(s): 6454453-6454457									
Barium	0.104	U	0.104	0.392	mg/kg	103		83-110		
Batch number: 113045708008	Sample number(s): 6454453-6454457									
Aluminum	5.93	U	5.93	19.6	mg/kg	78		40-127		
Boron	0.353	U	0.353	4.90	mg/kg	97		83-110		
Calcium	3.41	J	2.45	19.6	mg/kg	93		81-110		
Iron	5.08	J	2.56	19.6	mg/kg	82		47-129		
Lithium	0.61	U	0.61	2.0	mg/kg	99		80-120		
Magnesium	0.431	U	0.431	9.80	mg/kg	84		63-116		
Manganese	0.0422	J	0.0353	0.490	mg/kg	97		85-116		
Phosphorus	1.66	J	0.343	9.80	mg/kg	104		80-120		
Potassium	11.1	U	11.1	49.0	mg/kg	96		71-110		
Sodium	5.83	U	5.83	98.0	mg/kg	96		76-110		
Strontium	0.0245	U	0.0245	0.490	mg/kg	98		84-110		
Tin	1.38	J	0.314	9.80	mg/kg	89		86-120		
Titanium	0.0941	J	0.0696	0.980	mg/kg	83		80-120		
Zirconium	0.451	U	0.451	4.90	mg/kg	101		80-120		
Batch number: 113045711007	Sample number(s): 6454453-6454457									
Mercury	0.0066	U	0.0066	0.0940	mg/kg	111		83-119		
Batch number: 11308621201A	Sample number(s): 6454453-6454455									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	104		85-115		
Batch number: 11308621201B	Sample number(s): 6454456-6454457									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	104		85-115		
Batch number: 11312102202A	Sample number(s): 6454453									
16a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	105		80-120		
Batch number: 11312243201A	Sample number(s): 6454453-6454457									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	81		80-120		
Batch number: 11312621202A	Sample number(s): 6454453-6454455									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	104		90-110		
Batch number: 11312621202B	Sample number(s): 6454456-6454457									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	104		90-110		
Batch number: 11314102202A	Sample number(s): 6454454,6454456-6454457									
16a Cyanide by 9012B	0.18	U	0.18	0.50	mg/kg	95		80-120		
Batch number: 11311039401A	Sample number(s): 6454453-6454454									
17a pH by 9045C						100		95-105		

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273859
Reported: 11/29/11 at 12:20 PM

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11311039401B	Sample number(s): 6454455-6454457								
17a pH by 9045C					100		95-105		
Batch number: 11311162401A	Sample number(s): 6454453-6454457								
Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11304SLB026	Sample number(s): 6454453-6454457 UNSPK: P451564								
Aniline	52	61	18-116	17	30				
Benzidine	0*	0*	35-141	0	30				
Benzoic acid	60	58	10-173	2	30				
Benzyl alcohol	80	82	67-115	3	30				
4-Bromophenyl-phenylether	108	106	67-129	1	30				
Butylbenzylphthalate	92	92	73-134	1	30				
Di-n-butylphthalate	100	98	67-123	1	30				
Carbazole	103	101	64-120	1	30				
4-Chloro-3-methylphenol	85	84	62-122	0	30				
4-Chloroaniline	42	61	13-107	37*	30				
bis(2-Chloroethoxy)methane	90	90	75-104	1	30				
bis(2-Chloroethyl)ether	83	81	60-116	1	30				
bis(2-Chloroisopropyl)ether	80	80	55-142	1	30				
2-Chloronaphthalene	94	84	50-141	10	30				
2-Chlorophenol	90	92	73-121	3	30				
4-Chlorophenyl-phenylether	100	100	80-109	1	30				
Dibenzofuran	98	99	71-112	1	30				
1,2-Dichlorobenzene	85	83	66-108	2	30				
1,3-Dichlorobenzene	82	81	63-109	1	30				
1,4-Dichlorobenzene	81	80	58-108	1	30				
3,3'-Dichlorobenzidine	44	55	28-109	24	30				
2,4-Dichlorophenol	98	101	66-123	4	30				
Diethylphthalate	93	92	66-118	0	30				
2,4-Dimethylphenol	86	87	68-118	2	30				
3,5-Dimethylphenol	98	101	71-127	4	30				
Dimethylphthalate	97	96	64-118	0	30				
4,6-Dinitro-2-methylphenol	83	85	11-126	3	30				
2,4-Dinitrophenol	57	58	20-143	2	30				
2,4-Dinitrotoluene	94	96	56-129	2	30				
2,6-Dinitrotoluene	99	100	69-123	1	30				
1,2-Diphenylhydrazine	91	89	71-129	1	30				
bis(2-Ethylhexyl)phthalate	92	92	63-122	1	30				
Hexachlorobenzene	114	111	77-114	2	30				
Hexachlorobutadiene	95	94	62-120	1	30				
Hexachlorocyclopentadiene	104	101	10-153	2	30				
Hexachloroethane	76	74	57-109	2	30				
Isophorone	80	81	73-102	2	30				
2-Methylphenol	87	90	75-111	3	30				
4-Methylphenol	81	83	59-123	3	30				

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273859
Reported: 11/29/11 at 12:20 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Naphthalene	94	94	72-116	1	30				
2-Nitroaniline	95	95	67-125	1	30				
3-Nitroaniline	89	91	59-122	3	30				
4-Nitroaniline	75	76	41-109	1	30				
Nitrobenzene	82	83	57-125	1	30				
2-Nitrophenol	85	90	56-127	6	30				
4-Nitrophenol	69	70	37-129	2	30				
N-Nitroso-di-n-propylamine	70	70	60-116	0	30				
N-Nitrosodiphenylamine	104	102	71-122	2	30				
Di-n-octylphthalate	100	102	56-126	2	30				
Pentachlorophenol	114	112	28-127	1	30				
Phenol	83	85	58-126	2	30				
1,2,4-Trichlorobenzene	97	95	72-115	1	30				
2,4,5-Trichlorophenol	101	102	58-129	2	30				
2,4,6-Trichlorophenol	103	103	56-134	1	30				
Batch number: 11305SLD026	Sample number(s): 6454453-6454457 UNSPK: 6454453								
Acenaphthene	102	102	63-105	0	30				
Acenaphthylene	97	101	67-114	4	30				
Anthracene	109	107	73-115	2	30				
Benzo(a)anthracene	93	115	59-128	17	30				
Benzo(a)pyrene	104	113	58-142	7	30				
Benzo(b)fluoranthene	256*	264*	54-163	2	30				
Benzo(g,h,i)perylene	47	51	33-141	6	30				
Benzo(k)fluoranthene	0*	0*	57-153	0	30				
Butylbenzylphthalate	115	123	57-173	7	30				
Di-n-butylphthalate	111	109	65-148	1	30				
Chrysene	102	106	67-123	2	30				
Dibenz(a,h)anthracene	53	63	22-133	17	30				
Diethylphthalate	119	124	70-136	4	30				
Dimethylphthalate	109	112	74-118	3	30				
Bis(2-Ethylhexyl)phthalate	64	102	39-167	17	30				
Fluoranthene	124	122	51-149	1	30				
Fluorene	106	109	66-122	3	30				
Indeno(1,2,3-cd)pyrene	51	70	21-143	27	30				
1-Methylnaphthalene	95	98	72-123	3	30				
2-Methylnaphthalene	94	97	64-103	3	30				
Naphthalene	96	97	61-102	2	30				
N-Nitrosodimethylamine	98	100	48-113	2	30				
Di-n-octylphthalate	186	175	40-192	5	30				
Phenanthrene	125*	113	62-122	8	30				
Pyrene	108	111	51-131	2	30				
Batch number: 113060035A	Sample number(s): 6454453,6454455-6454457 UNSPK: P453097								
PCB-1016	120	92	29-146	26	50				
PCB-1260	119	96	39-149	19	50				
Batch number: 113150020A	Sample number(s): 6454454 UNSPK: P465418								
PCB-1016	74	79	29-146	7	50				
PCB-1260	85	94	39-149	10	50				
Batch number: 113040033A	Sample number(s): 6454453-6454454,6454456-6454457 UNSPK: P451568								
Ethanol	88	87	48-130	0	20				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273859
Reported: 11/29/11 at 12:20 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Isopropanol	86	87	12-149	1	20				
Methanol	107	103	43-138	5	20				
Batch number: 113080023A	Sample number(s): 6454453-6454454,6454456-6454457 UNSPK: 6454453								
Diethylene glycol	3*	4*	59-109	4	20				
Ethylene glycol	39*	39*	63-107	0	20				
Propylene glycol	56*	56*	63-107	1	20				
Batch number: 113070014A	Sample number(s): 6454453-6454454,6454456-6454457 UNSPK: P451568								
EFH (C12-C14)	89	88	49-123	1	20				
EFH (C15-C20)	104	101	49-123	2	20				
EFH (C21-C30)	133*	112	49-123	8	20				
EFH (C30 - C40)	-54*	-67*	49-123	5	20				
EFH (C8-C11)	74	71	49-123	3	20				
Batch number: 113120010A	Sample number(s): 6454453-6454454,6454456-6454457 UNSPK: P457188								
m-Terphenyl	88	100	75-125	12	20				
o-Terphenyl	89	101	75-125	13	20				
p-Terphenyl	91	101	75-125	11	20				
Batch number: 113041026004A	Sample number(s): 6454453-6454457 UNSPK: 6454455 BKG: 6454455								
Antimony	28*	15*	75-125	49*	20	0.0764 J	0.0718 U	200* (1)	20
Arsenic	91	127*	75-125	9	20	5.34	4.29	22*	20
Beryllium	86	141*	75-125	30*	20	0.510	0.445	14 (1)	20
Cadmium	106	122	75-125	10	20	0.141	0.0839 J	51* (1)	20
Chromium	84	112	75-125	9	20	20.2	15.1	29*	20
Cobalt	135*	148*	75-125	6	20	7.44	5.54	29*	20
Copper	109	128*	75-125	8	20	8.70	63.7	152*	20
Lead	110	143*	75-125	8	20	7.33	6.79	8	20
Nickel	103	121	75-125	7	20	12.9	9.93	26*	20
Silver	117	123	75-125	3	20	0.0296 J	0.0214 J	32* (1)	20
Thallium	117	123	75-125	2	20	0.312	0.229	31* (1)	20
Vanadium	88	125	75-125	7	20	37.5	29.9	23*	20
Zinc	27 (2)	64 (2)	75-125	5	20	60.9	56.6	7	20
Batch number: 113041026004B	Sample number(s): 6454453-6454457 UNSPK: 6454455 BKG: 6454455								
Selenium	102	108	75-125	3	20	0.106 J	0.0823 J	25* (1)	20
Batch number: 113041026004C	Sample number(s): 6454453-6454457 UNSPK: 6454455 BKG: 6454455								
Molybdenum	120	132*	75-125	8	20	0.412	0.429	4 (1)	20
Batch number: 113041026004D	Sample number(s): 6454453-6454457 UNSPK: 6454455 BKG: 6454455								
Barium	-30 (2)	134 (2)	75-125	14	20	108	82.1	27*	20
Batch number: 113045708008	Sample number(s): 6454453-6454457 UNSPK: 6454453 BKG: 6454453								
Aluminum	1233 (2)	1042 (2)	75-125	3	20	10,600	11,400	8	20
Boron	93	93	84-115	1	20	6.50	7.04	8 (1)	20
Calcium	191 (2)	125 (2)	75-125	8	20	2,770	2,850	3	20
Iron	1004 (2)	368 (2)	75-125	4	20	17,300	19,400	12	20
Lithium	98	95	82-114	2	20	24.0	25.1	4	20
Magnesium	271 (2)	151 (2)	75-125	6	20	3,720	3,920	5	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273859
Reported: 11/29/11 at 12:20 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Manganese	112 (2)	80 (2)	75-125	5	20	264		260		2	20
Phosphorus	106	94	75-125	3	20	334		363		8	20
Potassium	122	112	75-125	2	20	2,900		3,100		7	20
Sodium	98	97	75-125	1	20	96.3		102		6 (1)	20
Strontium	100	99	75-115	1	20	11.6		12.3		6	20
Tin	85	84	80-110	1	20	2.43	J	2.41	J	1 (1)	20
Titanium	233 (2)	198 (2)	75-125	3	20	929		976		5	20
Zirconium	94	92	81-110	2	20	2.41	J	3.10	J	25* (1)	20
Batch number: 113045711007	Sample number(s): 6454453-6454457 UNSPK: 6454457 BKG: 6454457										
Mercury	103	100	65-135	2	20	0.0067	U	0.0066	U	0 (1)	20
Batch number: 11308621201A	Sample number(s): 6454453-6454455 UNSPK: P451564 BKG: P451564										
7a Perchlorate EPA 314.0	113		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11308621201B	Sample number(s): 6454456-6454457 UNSPK: 6454456 BKG: 6454456										
7a Perchlorate EPA 314.0	104		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11312102202A	Sample number(s): 6454453 UNSPK: P451568 BKG: P451568										
16a Cyanide by 9012B	106		75-125			0.18	U	0.18	U	0 (1)	20
Batch number: 11312243201A	Sample number(s): 6454453-6454457 UNSPK: P451564 BKG: P451564										
3a Cr VI by EPA 7199	98		75-125			0.43	J	0.47	J	10 (1)	20
Batch number: 11312621202A	Sample number(s): 6454453-6454455 UNSPK: P451564 BKG: P451564										
11a Anions by 300.0 - Fluoride	73*		80-120			0.80	U	0.80	U	0 (1)	20
Batch number: 11312621202B	Sample number(s): 6454456-6454457 UNSPK: 6454456 BKG: 6454456										
11a Anions by 300.0 - Fluoride	77*		80-120			5.1		4.7		9 (1)	20
Batch number: 11314102202A	Sample number(s): 6454454,6454456-6454457 UNSPK: 6454454 BKG: 6454454										
16a Cyanide by 9012B	91		75-125			0.18	U	0.17	U	0 (1)	20
Batch number: 11311039401A	Sample number(s): 6454453-6454454 BKG: P451564										
17a pH by 9045C						6.66		6.67		0	3
Batch number: 11311039401B	Sample number(s): 6454455-6454457 BKG: 6454455										
17a pH by 9045C						7.54		7.55		0	3
Batch number: 11311162401A	Sample number(s): 6454453-6454457 BKG: P451565										
Moisture Content by 160.3						8.7		9.3		7	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11304SLB026

Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273859
Reported: 11/29/11 at 12:20 PM

Surrogate Quality Control

6454453	91	102	105	81	101	116
6454454	83	91	102	73	93	110
6454455	87	98	104	80	105	115
6454456	84	94	106	77	101	113
6454457	84	95	108	78	102	118
Blank	81	92	104	77	99	117
LCS	92	100	111	80	101	115
MS	85	95	112	78	101	116
MSD	87	95	112	78	102	117
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11305SLD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6454453	109	97	121
6454454	89	79	81
6454455	85	78	83
6454456	96	87	91
6454457	97	109	92
Blank	107	96	110
LCS	100	92	100
MS	103	90	101
MSD	103	92	107
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11299A16B

	Trifluorotoluene-F
6454453	86
6454456	90
6454457	86
Blank	96
LCS	89
LCSD	93
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11304A20A

	Trifluorotoluene-F
6454458	88
Blank	88
LCS	114
LCSD	112
Limits:	63-135

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 113060035A

	Tetrachloro-m-xylene	Decachlorobiphenyl

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273859
Reported: 11/29/11 at 12:20 PM

Surrogate Quality Control

6454453	105	90
6454455	64	49
6454456	88	70
6454457	139	121*
Blank	120	117
LCS	179*	186*
LCSD	164*	163*
MS	143*	133*
MSD	116	108
Limits:	53-139	45-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 113150020A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6454454	70	62
Blank	90	97
LCS	89	96
LCSD	96	102
MS	85	88
MSD	93	99
Limits:	53-139	45-120

Analysis Name: 18a Alcohols by 8015B
Batch number: 113040033A

	Acetone
6454453	90
6454454	58
6454456	86
6454457	88
Blank	93
LCS	92
MS	89
MSD	89
Limits:	42-138

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 113070014A

	Chlorobenzene	Orthoterphenyl
6454453	86	78
6454454	98	86
6454456	85	75
6454457	80	77
Blank	93	81
LCS	90	98
MS	91	93
MSD	90	90
Limits:	37-125	47-145

Analysis Name: 19a Glycols by 8015B
Batch number: 113080023A

*- Outside of specification
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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273859
Reported: 11/29/11 at 12:20 PM

Surrogate Quality Control

	Tetramethylene glycol
6454453	87
6454454	88
6454456	85
6454457	88
Blank	99
LCS	99
MS	88
MSD	87
Limits:	29-137

Analysis Name: 22a Terphenyls by 8015B
Batch number: 113120010A

	n-Triacontane-d62
6454453	87
6454454	124
6454456	83
6454457	83
Blank	76
LCS	80
MS	73
MSD	77
Limits:	19-152

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acct# 13013 QP# 1273859 samp6# 6454453-58

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
SL-091-SA7-SB-3.0	10/27/11	1605	SOIL	NONE	2 Encores									X										
SL-091-SA7-SB-2.5-3.5	10/27/11	1600	SOIL	NONE	1 SS sleeve			X	X															
SL-091-SA7-SB-2.5-3.5	10/27/11	1600	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X					X	X	X	X	
SL-116-SA7-SB-0.0-0.5	10/28/11	1020	SOIL	NONE	1 SS sleeve			X	X															
SL-116-SA7-SB-0.0-0.5	10/28/11	1020	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X					X	X	X	X	
SL-117-SA7-SB-2.5-3.5	10/28/11	0915	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X											Was not able to collect sleeve
SL-118-SA7-SB-4.5	10/28/11	1125	SOIL	NONE	2 Encores									X										
SL-118-SA7-SB-4.0-5.0	10/28/11	1120	SOIL	NONE	1 SS sleeve			X	X															
SL-118-SA7-SB-4.0-5.0	10/28/11	1120	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X					X	X	X	X	
SL-119-SA7-SB-4.5	10/28/11	1445	SOIL	NONE	2 Encores									X										
SL-119-SA7-SB-4.0-5.0	10/28/11	1440	SOIL	NONE	1 SS sleeve			X	X															
SL-119-SA7-SB-4.0-5.0	10/28/11	1440	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X					X	X	X	X	
TB-102811	10/28/11	1430	WATER	HCl	2-40 mL vials									X										

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	10/28/2011 / 1630	10/29/11 0915	Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**	
		8754 3341 0818	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 09, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 10/29/2011
Group Number: 1273860
SDG: DX153
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-091-SA7-SB-2.5-3.5 Soil	6454459
SL-116-SA7-SB-0.0-0.5 Soil	6454460
SL-117-SA7-SB-2.5-3.5 Soil	6454461
SL-118-SA7-SB-4.0-5.0 Soil	6454462
SL-119-SA7-SB-4.0-5.0 Soil	6454463

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-091-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA7-SB

LLI Sample # SW 6454459
LLI Group # 1273860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2011 16:00

Submitted: 10/29/2011 09:15
Reported: 11/09/2011 23:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5301 SDG#: DX153-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	2.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-091-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA7-SB

LLI Sample # SW 6454459
LLI Group # 1273860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2011 16:00

Submitted: 10/29/2011 09:15
Reported: 11/09/2011 23:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5301 SDG#: DX153-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.116	J	0.0243	1.02	1
11031	12378-PeCDD	40321-76-4	0.327	J	0.0400	5.10	1
11031	123478-HxCDD	39227-28-6	0.254	JB	0.0358	5.10	1
11031	123678-HxCDD	57653-85-7	0.872	JB	0.0356	5.10	1
11031	123789-HxCDD	19408-74-3	0.761	JB	0.0371	5.10	1
11031	1234678-HpCDD	35822-46-9	16.6	B	0.0593	5.10	1
11031	OCDD	3268-87-9	189	B	0.0677	10.2	1
11031	2378-TCDF	51207-31-9	0.123	JQ	0.0536	1.02	1
11031	12378-PeCDF	57117-41-6	1.63	JB	0.0347	5.10	1
11031	23478-PeCDF	57117-31-4	0.750	JB	0.0351	5.10	1
11031	123478-HxCDF	70648-26-9	2.11	JB	0.0323	5.10	1
11031	123678-HxCDF	57117-44-9	0.703	JB	0.0269	5.10	1
11031	123789-HxCDF	72918-21-9	0.252	JB	0.0365	5.10	1
11031	234678-HxCDF	60851-34-5	0.296	JB	0.0313	5.10	1
11031	1234678-HpCDF	67562-39-4	2.50	JB	0.0165	5.10	1
11031	1234789-HpCDF	55673-89-7	0.297	J	0.0279	5.10	1
11031	OCDF	39001-02-0	4.83	JB	0.0377	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	88	32 - 141
13C12-123678-HxCDD	93	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	84	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	99	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	62	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-091-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA7-SB

LLI Sample # SW 6454459
LLI Group # 1273860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2011 16:00

Submitted: 10/29/2011 09:15
Reported: 11/09/2011 23:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5301 SDG#: DX153-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-091-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-091-SA7-SB

LLI Sample # SW 6454459
LLI Group # 1273860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/27/2011 16:00

Submitted: 10/29/2011 09:15
Reported: 11/09/2011 23:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5301 SDG#: DX153-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11307002	11/06/2011 00:01	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11307002	11/03/2011 09:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401A	11/07/2011 22:36	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-116-SA7-SB-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA7-SB

LLI Sample # SW 6454460
LLI Group # 1273860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 10:20

Submitted: 10/29/2011 09:15
Reported: 11/09/2011 23:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5302 SDG#: DX153-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-116-SA7-SB-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-116-SA7-SB

LLI Sample # SW 6454460
LLI Group # 1273860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 10:20

Submitted: 10/29/2011 09:15
Reported: 11/09/2011 23:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5302 SDG#: DX153-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0775	J	0.0249	1.02	1
11031	12378-PeCDD	40321-76-4	0.507	J	0.0407	5.12	1
11031	123478-HxCDD	39227-28-6	0.678	JB	0.0387	5.12	1
11031	123678-HxCDD	57653-85-7	1.43	JB	0.0389	5.12	1
11031	123789-HxCDD	19408-74-3	1.60	JB	0.0373	5.12	1
11031	1234678-HpCDD	35822-46-9	33.4	B	0.0723	5.12	1
11031	OCDD	3268-87-9	520	B	0.0938	10.2	1
11031	2378-TCDF	51207-31-9	0.0746	J	0.0365	1.02	1
11031	12378-PeCDF	57117-41-6	0.354	JB	0.0222	5.12	1
11031	23478-PeCDF	57117-31-4	0.337	JB	0.0206	5.12	1
11031	123478-HxCDF	70648-26-9	0.275	JBQ	0.0225	5.12	1
11031	123678-HxCDF	57117-44-9	0.240	JB	0.0209	5.12	1
11031	123789-HxCDF	72918-21-9	0.300	JB	0.0223	5.12	1
11031	234678-HxCDF	60851-34-5	0.215	JB	0.0196	5.12	1
11031	1234678-HpCDF	67562-39-4	2.60	JB	0.0182	5.12	1
11031	1234789-HpCDF	55673-89-7	0.179	JQ	0.0224	5.12	1
11031	OCDF	39001-02-0	7.08	JB	0.0350	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	86	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	74	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-116-SA7-SB-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA7-SB

LLI Sample # SW 6454460
LLI Group # 1273860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 10:20

Submitted: 10/29/2011 09:15
Reported: 11/09/2011 23:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5302 SDG#: DX153-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-116-SA7-SB-0.0-0.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-116-SA7-SB

LLI Sample # SW 6454460
LLI Group # 1273860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 10:20

Submitted: 10/29/2011 09:15
Reported: 11/09/2011 23:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5302 SDG#: DX153-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11307002	11/06/2011 00:58	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11307002	11/03/2011 09:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401A	11/07/2011 22:36	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-117-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA7-SB

LLI Sample # SW 6454461
LLI Group # 1273860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 09:15

Submitted: 10/29/2011 09:15
Reported: 11/09/2011 23:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5303 SDG#: DX153-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-117-SA7-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-117-SA7-SB

LLI Sample # SW 6454461
LLI Group # 1273860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 09:15

Submitted: 10/29/2011 09:15
Reported: 11/09/2011 23:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5303 SDG#: DX153-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0257	U	0.0257	1.03	1
11031	12378-PeCDD	40321-76-4	0.0917	JQ	0.0380	5.13	1
11031	123478-HxCDD	39227-28-6	0.160	JB	0.0314	5.13	1
11031	123678-HxCDD	57653-85-7	0.423	JB	0.0313	5.13	1
11031	123789-HxCDD	19408-74-3	0.455	JB	0.0307	5.13	1
11031	1234678-HpCDD	35822-46-9	10.0	B	0.0578	5.13	1
11031	OCDD	3268-87-9	144	B	0.0715	10.3	1
11031	2378-TCDF	51207-31-9	0.270	J	0.0760	1.03	1
11031	12378-PeCDF	57117-41-6	0.566	JB	0.0359	5.13	1
11031	23478-PeCDF	57117-31-4	0.890	JB	0.0333	5.13	1
11031	123478-HxCDF	70648-26-9	0.538	JB	0.0310	5.13	1
11031	123678-HxCDF	57117-44-9	0.189	JBQ	0.0286	5.13	1
11031	123789-HxCDF	72918-21-9	0.153	JB	0.0297	5.13	1
11031	234678-HxCDF	60851-34-5	0.152	JBQ	0.0252	5.13	1
11031	1234678-HpCDF	67562-39-4	1.27	JB	0.0177	5.13	1
11031	1234789-HpCDF	55673-89-7	0.186	J	0.0243	5.13	1
11031	OCDF	39001-02-0	3.05	JB	0.0409	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	68	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-117-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA7-SB

LLI Sample # SW 6454461
LLI Group # 1273860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 09:15

Submitted: 10/29/2011 09:15
Reported: 11/09/2011 23:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5303 SDG#: DX153-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-117-SA7-SB-2.5-3.5 Soil**
SSFL Area IV Collocated Soil Sampling
SL-117-SA7-SB

LLI Sample # SW 6454461
LLI Group # 1273860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 09:15

Submitted: 10/29/2011 09:15
Reported: 11/09/2011 23:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5303 SDG#: DX153-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11307002	11/06/2011 01:54	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11307002	11/03/2011 09:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401A	11/07/2011 22:36	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-118-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA7-SB

LLI Sample # SW 6454462
LLI Group # 1273860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 11:20

Submitted: 10/29/2011 09:15
Reported: 11/09/2011 23:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5304 SDG#: DX153-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.5	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-118-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-118-SA7-SB

LLI Sample # SW 6454462
LLI Group # 1273860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 11:20

Submitted: 10/29/2011 09:15
Reported: 11/09/2011 23:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5304 SDG#: DX153-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0225	U	0.0225	1.05	1
11031	12378-PeCDD	40321-76-4	0.0786	JQ	0.0307	5.27	1
11031	123478-HxCDD	39227-28-6	0.0943	JBQ	0.0318	5.27	1
11031	123678-HxCDD	57653-85-7	0.462	JB	0.0319	5.27	1
11031	123789-HxCDD	19408-74-3	0.357	JBQ	0.0325	5.27	1
11031	1234678-HpCDD	35822-46-9	12.5	B	0.0595	5.27	1
11031	OCDD	3268-87-9	193	B	0.0590	10.5	1
11031	2378-TCDF	51207-31-9	0.0875	JQ	0.0320	1.05	1
11031	12378-PeCDF	57117-41-6	0.130	JBQ	0.0165	5.27	1
11031	23478-PeCDF	57117-31-4	0.150	JBQ	0.0164	5.27	1
11031	123478-HxCDF	70648-26-9	0.282	JB	0.0236	5.27	1
11031	123678-HxCDF	57117-44-9	0.169	JB	0.0201	5.27	1
11031	123789-HxCDF	72918-21-9	0.215	JB	0.0274	5.27	1
11031	234678-HxCDF	60851-34-5	0.236	JBQ	0.0205	5.27	1
11031	1234678-HpCDF	67562-39-4	2.14	JB	0.0136	5.27	1
11031	1234789-HpCDF	55673-89-7	0.354	J	0.0280	5.27	1
11031	OCDF	39001-02-0	4.81	JB	0.0496	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	105	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	52	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-118-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA7-SB

LLI Sample # SW 6454462
LLI Group # 1273860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 11:20

Submitted: 10/29/2011 09:15
Reported: 11/09/2011 23:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5304 SDG#: DX153-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-118-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-118-SA7-SB

LLI Sample # SW 6454462
LLI Group # 1273860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 11:20

Submitted: 10/29/2011 09:15
Reported: 11/09/2011 23:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5304 SDG#: DX153-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11307002	11/06/2011 01:51	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11307002	11/03/2011 09:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401A	11/07/2011 22:36	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-119-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA7-SB

LLI Sample # SW 6454463
LLI Group # 1273860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 14:40

Submitted: 10/29/2011 09:15
Reported: 11/09/2011 23:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5305 SDG#: DX153-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-119-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA7-SB

LLI Sample # SW 6454463
LLI Group # 1273860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 14:40

Submitted: 10/29/2011 09:15
Reported: 11/09/2011 23:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5305 SDG#: DX153-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0257	U	0.0257	1.05	1
11031	12378-PeCDD	40321-76-4	0.0304	U	0.0304	5.24	1
11031	123478-HxCDD	39227-28-6	0.0470	JB	0.0242	5.24	1
11031	123678-HxCDD	57653-85-7	0.228	JB	0.0253	5.24	1
11031	123789-HxCDD	19408-74-3	0.259	JB	0.0237	5.24	1
11031	1234678-HpCDD	35822-46-9	3.12	JB	0.0353	5.24	1
11031	OCDD	3268-87-9	36.8	B	0.0431	10.5	1
11031	2378-TCDF	51207-31-9	0.0238	U	0.0238	1.05	1
11031	12378-PeCDF	57117-41-6	0.0913	JB	0.0136	5.24	1
11031	23478-PeCDF	57117-31-4	0.0840	JB	0.0147	5.24	1
11031	123478-HxCDF	70648-26-9	0.0997	JBQ	0.0174	5.24	1
11031	123678-HxCDF	57117-44-9	0.0729	JB	0.0135	5.24	1
11031	123789-HxCDF	72918-21-9	0.181	JB	0.0211	5.24	1
11031	234678-HxCDF	60851-34-5	0.0810	JB	0.0149	5.24	1
11031	1234678-HpCDF	67562-39-4	0.460	JB	0.0117	5.24	1
11031	1234789-HpCDF	55673-89-7	0.0890	J	0.0302	5.24	1
11031	OCDF	39001-02-0	0.844	JB	0.0549	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	109	28 - 143
13C12-1234789-HpCDF	51	26 - 138
13C12-OCDF	41	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-119-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA7-SB

LLI Sample # SW 6454463
LLI Group # 1273860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 14:40

Submitted: 10/29/2011 09:15
Reported: 11/09/2011 23:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5305 SDG#: DX153-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-119-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-119-SA7-SB

LLI Sample # SW 6454463
LLI Group # 1273860
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/28/2011 14:40

Submitted: 10/29/2011 09:15
Reported: 11/09/2011 23:01

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5305 SDG#: DX153-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11307002	11/06/2011 02:47	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11307002	11/03/2011 09:30	Deborah M Zimmerman	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401A	11/07/2011 22:36	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273860
Reported: 11/09/11 at 11:01 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11311162401A	Sample number(s): 6454459-6454463								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11307002	Sample number(s): 6454459-6454463								
2378-TCDD	0.0250 U	0.0250	1.00	ng/kg	110		67-158		
12378-PeCDD	0.0263 U	0.0263	5.00	ng/kg	108		70-142		
123478-HxCDD	0.0229 J	0.0182	5.00	ng/kg	103		70-164		
123678-HxCDD	0.0323 J	0.0182	5.00	ng/kg	99		76-134		
123789-HxCDD	0.0212 J	0.0186	5.00	ng/kg	105		64-162		
1234678-HpCDD	0.268 J	0.0221	5.00	ng/kg	102		70-140		
OCDD	0.412 J	0.0259	10.0	ng/kg	98		78-144		
2378-TCDF	0.0197 U	0.0197	1.00	ng/kg	108		75-158		
12378-PeCDF	0.0304 J	0.0104	5.00	ng/kg	105		80-134		
23478-PeCDF	0.0732 J	0.0110	5.00	ng/kg	99		68-160		
123478-HxCDF	0.0245 J	0.0131	5.00	ng/kg	100		72-134		
123678-HxCDF	0.0169 J	0.0110	5.00	ng/kg	99		84-130		
123789-HxCDF	0.0396 J	0.0154	5.00	ng/kg	101		78-130		
234678-HxCDF	0.0200 J	0.0127	5.00	ng/kg	100		70-156		
1234678-HpCDF	0.0783 J	0.00700	5.00	ng/kg	93		82-122		
1234789-HpCDF	0.0162 U	0.0162	5.00	ng/kg	101		78-138		
OCDF	0.185 J	0.0413	10.0	ng/kg	101		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11311162401A	Sample number(s): 6454459-6454463					BKG: P451565			
Moisture Content by 160.3						8.7	9.3	7	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1273860
Reported: 11/09/11 at 11:01 PM

Surrogate Quality Control

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11307002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6454459	83	79	78	86	80	79
6454460	81	83	77	80	83	83
6454461	79	80	74	75	83	82
6454462	79	76	73	83	80	68
6454463	74	73	66	82	77	62
Blank	65	65	64	76	67	64
OPR	71	66	63	79	67	58
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6454459	99	69	62	79	88	93
6454460	82	80	74	80	83	85
6454461	84	74	68	78	80	83
6454462	105	60	52	78	83	85
6454463	109	51	41	74	82	83
Blank	102	55	46	69	74	78
OPR	107	50	42	73	79	80
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6454459	89	86	80	84	88
6454460	84	83	79	86	83
6454461	82	81	76	83	83
6454462	83	81	77	80	88
6454463	80	79	74	74	86
Blank	75	78	75	64	75
OPR	81	81	78	68	80
Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Gp# 1273860 samp6# 6454459-63

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 5 (SA5) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY FOR ALL LOCATIONS									SECONDARY FOR ALL LOCATIONS									Other Instructions and Notes
						*Metals EPA 6010B/6020B/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	*TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-091-SA7-SB-3.0	10/27/11	1605	SOIL	NONE	2 Encores									X										
SL-091-SA7-SB-2.5-3.5	10/27/11	1600	SOIL	NONE	1 SS sleeve			X	X															
SL-091-SA7-SB-2.5-3.5	10/27/11	1600	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X					X	X	X	X	
SL-116-SA7-SB-0.0-0.5	10/28/11	1020	SOIL	NONE	1 SS sleeve			X	X															
SL-116-SA7-SB-0.0-0.5	10/28/11	1020	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X					X	X	X	X	
SL-117-SA7-SB-2.5-3.5	10/28/11	0915	SOIL	NONE	2-16 oz Jars	X	X	X	X	X	X	X	X											Was not able to collect sleeve
SL-118-SA7-SB-4.5	10/28/11	1125	SOIL	NONE	2 Encores									X										
SL-118-SA7-SB-4.0-5.0	10/28/11	1120	SOIL	NONE	1 SS sleeve			X	X															
SL-118-SA7-SB-4.0-5.0	10/28/11	1120	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X					X	X	X	X	
SL-119-SA7-SB-4.5	10/28/11	1445	SOIL	NONE	2 Encores									X										
SL-119-SA7-SB-4.0-5.0	10/28/11	1440	SOIL	NONE	1 SS sleeve			X	X															
SL-119-SA7-SB-4.0-5.0	10/28/11	1440	SOIL	NONE	2-16 oz Jars	X	X			X	X	X	X		X					X	X	X	X	
TB-102811	10/28/11	1430	WATER	HCl	2-40 mL vials									X										

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	10/28/2011 / 1630	10/29/11 0915	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	
		8754 3341 0818	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 22, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/02/2011
Group Number: 1274353
SDG: DX153
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-001-SA7-SB-4.0-5.0 Soil	6457203
SL-120-SA7-SB-4.0-5.0 Soil	6457204
SL-120-SA7-SB-9.0-10.0 Soil	6457205
SL-121-SA7-SB-4.0-5.0 Soil	6457206
SL-121-SA7-SB-9.0-10.0 Soil	6457207
SL-123-SA7-SB-4.0-5.0 Soil	6457208
SL-123-SA7-SB-9.0-10.0 Soil	6457209
SL-160-SA7-SB-0.0-1.0 Soil	6457210
SL-175-SA7-SB-4.0-5.0 Soil	6457211
SL-175-SA7-SB-9.0-10.0 Soil	6457212
SL-185-SA7-SB-3.0-4.0 Soil	6457213

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-001-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA7-SB

LLI Sample # SW 6457203
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/31/2011 15:15

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-001 SDG#: DX153-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	6.2	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-001-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA7-SB

LLI Sample # SW 6457203
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/31/2011 15:15

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-001 SDG#: DX153-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0623 J	0.0325	1.05	1
11031	12378-PeCDD	40321-76-4	0.0882 JBQ	0.0245	5.26	1
11031	123478-HxCDD	39227-28-6	0.0365 J	0.0211	5.26	1
11031	123678-HxCDD	57653-85-7	0.0711 JBQ	0.0212	5.26	1
11031	123789-HxCDD	19408-74-3	0.0665 JB	0.0196	5.26	1
11031	1234678-HpCDD	35822-46-9	0.790 JB	0.0242	5.26	1
11031	OCDD	3268-87-9	3.77 JB	0.0200	10.5	1
11031	2378-TCDF	51207-31-9	0.0267 U	0.0267	1.05	1
11031	12378-PeCDF	57117-41-6	0.0739 JBQ	0.0134	5.26	1
11031	23478-PeCDF	57117-31-4	0.106 JB	0.0127	5.26	1
11031	123478-HxCDF	70648-26-9	0.0520 JB	0.0155	5.26	1
11031	123678-HxCDF	57117-44-9	0.0652 JB	0.0152	5.26	1
11031	123789-HxCDF	72918-21-9	0.0728 JBQ	0.0155	5.26	1
11031	234678-HxCDF	60851-34-5	0.0882 JBQ	0.0150	5.26	1
11031	1234678-HpCDF	67562-39-4	0.271 JB	0.00991	5.26	1
11031	1234789-HpCDF	55673-89-7	0.0304 JB	0.0141	5.26	1
11031	OCDF	39001-02-0	0.412 JBQ	0.0273	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	93	23 - 140
13C12-OCDD	102	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	88	29 - 147
13C12-1234678-HpCDF	99	28 - 143
13C12-1234789-HpCDF	85	26 - 138
13C12-OCDF	91	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-001-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA7-SB

LLI Sample # SW 6457203
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/31/2011 15:15

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-001 SDG#: DX153-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-001-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-001-SA7-SB

LLI Sample # SW 6457203
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/31/2011 15:15

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-001 SDG#: DX153-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11312001	11/09/2011 20:22	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11312001	11/08/2011 09:00	Ginelle L Haines	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402A	11/21/2011 19:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-120-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SB

LLI Sample # SW 6457204
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/31/2011 09:30

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1204 SDG#: DX153-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-120-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SB

LLI Sample # SW 6457204
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/31/2011 09:30

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1204 SDG#: DX153-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0285	U	0.0285	1.05	1
11031	12378-PeCDD	40321-76-4	0.0576	JBQ	0.0258	5.25	1
11031	123478-HxCDD	39227-28-6	0.0208	U	0.0208	5.25	1
11031	123678-HxCDD	57653-85-7	0.240	JB	0.0223	5.25	1
11031	123789-HxCDD	19408-74-3	0.439	JB	0.0208	5.25	1
11031	1234678-HpCDD	35822-46-9	0.924	JB	0.0251	5.25	1
11031	OCDD	3268-87-9	7.69	JB	0.0208	10.5	1
11031	2378-TCDF	51207-31-9	0.0278	JQ	0.0232	1.05	1
11031	12378-PeCDF	57117-41-6	0.0647	JB	0.0137	5.25	1
11031	23478-PeCDF	57117-31-4	0.0752	JB	0.0129	5.25	1
11031	123478-HxCDF	70648-26-9	0.0785	JBQ	0.0152	5.25	1
11031	123678-HxCDF	57117-44-9	0.0390	JB	0.0141	5.25	1
11031	123789-HxCDF	72918-21-9	0.183	JBQ	0.0152	5.25	1
11031	234678-HxCDF	60851-34-5	0.0759	JB	0.0137	5.25	1
11031	1234678-HpCDF	67562-39-4	0.335	JB	0.0109	5.25	1
11031	1234789-HpCDF	55673-89-7	0.0636	JB	0.0154	5.25	1
11031	OCDF	39001-02-0	0.431	JB	0.0243	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	96	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	83	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-120-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SB

LLI Sample # SW 6457204
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/31/2011 09:30

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1204 SDG#: DX153-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-120-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SB

LLI Sample # SW 6457204
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/31/2011 09:30

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1204 SDG#: DX153-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11312001	11/09/2011 21:19	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11312001	11/08/2011 09:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11315162401A	11/11/2011 22:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-120-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SB

LLI Sample # SW 6457205
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/31/2011 10:40

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1209 SDG#: DX153-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-120-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SB

LLI Sample # SW 6457205
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/31/2011 10:40

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1209 SDG#: DX153-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0322 U	0.0322	1.11	1
11031	12378-PeCDD	40321-76-4	0.0288 JBQ	0.0288	5.57	1
11031	123478-HxCDD	39227-28-6	0.0257 J	0.0223	5.57	1
11031	123678-HxCDD	57653-85-7	0.108 JB	0.0233	5.57	1
11031	123789-HxCDD	19408-74-3	0.136 JB	0.0222	5.57	1
11031	1234678-HpCDD	35822-46-9	1.21 JB	0.0268	5.57	1
11031	OCDD	3268-87-9	8.89 JB	0.0205	11.1	1
11031	2378-TCDF	51207-31-9	0.0513 J	0.0277	1.11	1
11031	12378-PeCDF	57117-41-6	0.0595 JB	0.0142	5.57	1
11031	23478-PeCDF	57117-31-4	0.0508 JB	0.0135	5.57	1
11031	123478-HxCDF	70648-26-9	0.0657 JBQ	0.0159	5.57	1
11031	123678-HxCDF	57117-44-9	0.0507 JBQ	0.0138	5.57	1
11031	123789-HxCDF	72918-21-9	0.111 JB	0.0170	5.57	1
11031	234678-HxCDF	60851-34-5	0.0913 JBQ	0.0141	5.57	1
11031	1234678-HpCDF	67562-39-4	0.343 JB	0.0116	5.57	1
11031	1234789-HpCDF	55673-89-7	0.0705 JBQ	0.0209	5.57	1
11031	OCDF	39001-02-0	0.567 JB	0.0316	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	88	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	95	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	104	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	73	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-120-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SB

LLI Sample # SW 6457205
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/31/2011 10:40

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1209 SDG#: DX153-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-120-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-120-SA7-SB

LLI Sample # SW 6457205
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/31/2011 10:40

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1209 SDG#: DX153-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11312001	11/09/2011 22:15	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11312001	11/08/2011 09:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11315162401A	11/11/2011 22:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-121-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA7-SB

LLI Sample # SW 6457206
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/31/2011 11:50

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1214 SDG#: DX153-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-121-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA7-SB

LLI Sample # SW 6457206
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/31/2011 11:50

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1214 SDG#: DX153-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0305	U	0.0305	1.08	1
11031	12378-PeCDD	40321-76-4	0.0368	JB	0.0279	5.39	1
11031	123478-HxCDD	39227-28-6	0.0688	JQ	0.0248	5.39	1
11031	123678-HxCDD	57653-85-7	0.733	JB	0.0262	5.39	1
11031	123789-HxCDD	19408-74-3	0.908	JB	0.0245	5.39	1
11031	1234678-HpCDD	35822-46-9	6.26	B	0.0370	5.39	1
11031	OCDD	3268-87-9	53.8	B	0.0329	10.8	1
11031	2378-TCDF	51207-31-9	0.0462	J	0.0327	1.08	1
11031	12378-PeCDF	57117-41-6	0.279	JB	0.0182	5.39	1
11031	23478-PeCDF	57117-31-4	0.142	JB	0.0165	5.39	1
11031	123478-HxCDF	70648-26-9	0.121	JB	0.0192	5.39	1
11031	123678-HxCDF	57117-44-9	0.299	JB	0.0185	5.39	1
11031	123789-HxCDF	72918-21-9	0.211	JB	0.0185	5.39	1
11031	234678-HxCDF	60851-34-5	0.106	JBQ	0.0176	5.39	1
11031	1234678-HpCDF	67562-39-4	1.14	JB	0.0144	5.39	1
11031	1234789-HpCDF	55673-89-7	0.131	JB	0.0185	5.39	1
11031	OCDF	39001-02-0	2.80	JB	0.0228	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	99	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	85	26 - 138
13C12-OCDF	92	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-121-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA7-SB

LLI Sample # SW 6457206
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/31/2011 11:50

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1214 SDG#: DX153-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-121-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA7-SB

LLI Sample # SW 6457206
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/31/2011 11:50

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1214 SDG#: DX153-09

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11312001	11/09/2011 23:12	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11312001	11/08/2011 09:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11315162401A	11/11/2011 22:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-121-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA7-SB

LLI Sample # SW 6457207
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/31/2011 12:15

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1219 SDG#: DX153-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-121-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-121-SA7-SB

LLI Sample # SW 6457207
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/31/2011 12:15

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1219 SDG#: DX153-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0280	U	0.0280	1.11	1
11031	12378-PeCDD	40321-76-4	0.0941	JBQ	0.0301	5.54	1
11031	123478-HxCDD	39227-28-6	0.0597	JQ	0.0233	5.54	1
11031	123678-HxCDD	57653-85-7	0.346	JB	0.0235	5.54	1
11031	123789-HxCDD	19408-74-3	0.454	JB	0.0227	5.54	1
11031	1234678-HpCDD	35822-46-9	4.96	JB	0.0337	5.54	1
11031	OCDD	3268-87-9	56.2	B	0.0330	11.1	1
11031	2378-TCDF	51207-31-9	0.0270	J	0.0249	1.11	1
11031	12378-PeCDF	57117-41-6	0.160	JB	0.0135	5.54	1
11031	23478-PeCDF	57117-31-4	0.0874	JBQ	0.0137	5.54	1
11031	123478-HxCDF	70648-26-9	0.0984	JB	0.0172	5.54	1
11031	123678-HxCDF	57117-44-9	0.0948	JB	0.0151	5.54	1
11031	123789-HxCDF	72918-21-9	0.742	JBQ	0.0177	5.54	1
11031	234678-HxCDF	60851-34-5	0.108	JB	0.0143	5.54	1
11031	1234678-HpCDF	67562-39-4	0.844	JB	0.0114	5.54	1
11031	1234789-HpCDF	55673-89-7	0.0963	JB	0.0210	5.54	1
11031	OCDF	39001-02-0	1.92	JB	0.0299	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	88	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	98	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	107	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	69	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-121-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA7-SB

LLI Sample # SW 6457207
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/31/2011 12:15

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1219 SDG#: DX153-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-121-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-121-SA7-SB

LLI Sample # SW 6457207
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 10/31/2011 12:15

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1219 SDG#: DX153-10

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11312001	11/10/2011 00:08	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11312001	11/08/2011 09:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11315162401A	11/11/2011 22:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-123-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-123-SA7-SB

LLI Sample # SW 6457208
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2011 10:56

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1234 SDG#: DX153-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-123-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-123-SA7-SB

LLI Sample # SW 6457208
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2011 10:56

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1234 SDG#: DX153-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0311	U	0.0311	1.06	1
11031	12378-PeCDD	40321-76-4	0.0757	JBQ	0.0302	5.30	1
11031	123478-HxCDD	39227-28-6	0.0727	J	0.0239	5.30	1
11031	123678-HxCDD	57653-85-7	0.270	JBQ	0.0235	5.30	1
11031	123789-HxCDD	19408-74-3	0.275	JB	0.0239	5.30	1
11031	1234678-HpCDD	35822-46-9	3.67	JB	0.0334	5.30	1
11031	OCDD	3268-87-9	37.2	B	0.0271	10.6	1
11031	2378-TCDF	51207-31-9	0.0291	JQ	0.0237	1.06	1
11031	12378-PeCDF	57117-41-6	0.0631	JB	0.0133	5.30	1
11031	23478-PeCDF	57117-31-4	0.120	JBQ	0.0133	5.30	1
11031	123478-HxCDF	70648-26-9	0.114	JB	0.0208	5.30	1
11031	123678-HxCDF	57117-44-9	0.0991	JB	0.0177	5.30	1
11031	123789-HxCDF	72918-21-9	0.155	JBQ	0.0215	5.30	1
11031	234678-HxCDF	60851-34-5	0.133	JBQ	0.0180	5.30	1
11031	1234678-HpCDF	67562-39-4	0.692	JB	0.0104	5.30	1
11031	1234789-HpCDF	55673-89-7	0.110	JB	0.0221	5.30	1
11031	OCDF	39001-02-0	1.39	JB	0.0362	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	88	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	97	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	114	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	64	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Sample Description: **SL-123-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-123-SA7-SB

LLI Sample # SW 6457208
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2011 10:56

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1234 SDG#: DX153-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-123-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-123-SA7-SB

LLI Sample # SW 6457208
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2011 10:56

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1234 SDG#: DX153-11

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11312001	11/10/2011 01:05	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11312001	11/08/2011 09:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11315162401A	11/11/2011 22:24	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-123-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-123-SA7-SB

LLI Sample # SW 6457209
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2011 11:25

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1239 SDG#: DX153-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-123-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-123-SA7-SB

LLI Sample # SW 6457209
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2011 11:25

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1239 SDG#: DX153-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0339 U	0.0339	1.11	1
11031	12378-PeCDD	40321-76-4	0.0685 JBQ	0.0361	5.53	1
11031	123478-HxCDD	39227-28-6	0.0442 J	0.0257	5.53	1
11031	123678-HxCDD	57653-85-7	0.131 JB	0.0271	5.53	1
11031	123789-HxCDD	19408-74-3	0.125 JBQ	0.0264	5.53	1
11031	1234678-HpCDD	35822-46-9	1.91 JB	0.0304	5.53	1
11031	OCDD	3268-87-9	16.6 B	0.0284	11.1	1
11031	2378-TCDF	51207-31-9	0.0340 JQ	0.0283	1.11	1
11031	12378-PeCDF	57117-41-6	0.0474 JBQ	0.0145	5.53	1
11031	23478-PeCDF	57117-31-4	0.0690 JB	0.0151	5.53	1
11031	123478-HxCDF	70648-26-9	0.0716 JB	0.0204	5.53	1
11031	123678-HxCDF	57117-44-9	0.0768 JB	0.0170	5.53	1
11031	123789-HxCDF	72918-21-9	0.122 JB	0.0238	5.53	1
11031	234678-HxCDF	60851-34-5	0.110 JBQ	0.0200	5.53	1
11031	1234678-HpCDF	67562-39-4	0.369 JB	0.0111	5.53	1
11031	1234789-HpCDF	55673-89-7	0.0676 JB	0.0232	5.53	1
11031	OCDF	39001-02-0	0.761 JB	0.0489	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	96	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	112	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	61	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-123-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-123-SA7-SB

LLI Sample # SW 6457209
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2011 11:25

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1239 SDG#: DX153-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-123-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-123-SA7-SB

LLI Sample # SW 6457209
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2011 11:25

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1239 SDG#: DX153-12

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11312001	11/10/2011 02:02	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11312001	11/08/2011 09:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11315162401A	11/11/2011 22:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-160-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-160-SA7-SB

LLI Sample # SW 6457210
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2011 14:03

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-160 SDG#: DX153-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	3.9	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

Sample Description: SL-160-SA7-SB-0.0-1.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-160-SA7-SB

LLI Sample # SW 6457210
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2011 14:03

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-160 SDG#: DX153-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0917	J	0.0302	1.01	1
11031	12378-PeCDD	40321-76-4	0.352	JB	0.0369	5.04	1
11031	123478-HxCDD	39227-28-6	0.418	J	0.0311	5.04	1
11031	123678-HxCDD	57653-85-7	1.42	JB	0.0315	5.04	1
11031	123789-HxCDD	19408-74-3	0.822	JB	0.0313	5.04	1
11031	1234678-HpCDD	35822-46-9	29.2	B	0.0619	5.04	1
11031	OCDD	3268-87-9	404	B	0.0640	10.1	1
11031	2378-TCDF	51207-31-9	0.209	J	0.0462	1.01	1
11031	12378-PeCDF	57117-41-6	0.369	JB	0.0247	5.04	1
11031	23478-PeCDF	57117-31-4	0.482	JB	0.0227	5.04	1
11031	123478-HxCDF	70648-26-9	0.493	JB	0.0231	5.04	1
11031	123678-HxCDF	57117-44-9	0.362	JB	0.0232	5.04	1
11031	123789-HxCDF	72918-21-9	0.339	JB	0.0226	5.04	1
11031	234678-HxCDF	60851-34-5	0.405	JB	0.0212	5.04	1
11031	1234678-HpCDF	67562-39-4	5.10	B	0.0221	5.04	1
11031	1234789-HpCDF	55673-89-7	0.438	JB	0.0278	5.04	1
11031	OCDF	39001-02-0	12.4	B	0.0256	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	90	25 - 164
13C12-12378-PeCDD	91	25 - 181
13C12-123478-HxCDD	99	32 - 141
13C12-123678-HxCDD	100	28 - 130
13C12-123789-HxCDD	96	28 - 130
13C12-1234678-HpCDD	104	23 - 140
13C12-OCDD	114	17 - 157
13C12-2378-TCDF	94	24 - 169
13C12-12378-PeCDF	96	24 - 185
13C12-23478-PeCDF	93	21 - 178
13C12-123478-HxCDF	88	26 - 152
13C12-123678-HxCDF	91	26 - 123
13C12-234678-HxCDF	98	28 - 136
13C12-123789-HxCDF	103	29 - 147
13C12-1234678-HpCDF	104	28 - 143
13C12-1234789-HpCDF	99	26 - 138
13C12-OCDF	105	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-160-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-160-SA7-SB

LLI Sample # SW 6457210
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2011 14:03

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-160 SDG#: DX153-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-160-SA7-SB-0.0-1.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-160-SA7-SB

LLI Sample # SW 6457210
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2011 14:03

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-160 SDG#: DX153-13

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11312001	11/10/2011 02:58	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11312001	11/08/2011 09:00	Ginelle L Haines	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402A	11/21/2011 19:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-175-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-175-SA7-SB

LLI Sample # SW 6457211
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2011 08:45

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1754 SDG#: DX153-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-175-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-175-SA7-SB

LLI Sample # SW 6457211
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2011 08:45

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1754 SDG#: DX153-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0899	JQ	0.0324	1.04	1
11031	12378-PeCDD	40321-76-4	0.319	JBQ	0.0322	5.19	1
11031	123478-HxCDD	39227-28-6	0.156	JQ	0.0277	5.19	1
11031	123678-HxCDD	57653-85-7	0.475	JB	0.0281	5.19	1
11031	123789-HxCDD	19408-74-3	0.454	JB	0.0266	5.19	1
11031	1234678-HpCDD	35822-46-9	9.35	B	0.0394	5.19	1
11031	OCDD	3268-87-9	98.4	B	0.0403	10.4	1
11031	2378-TCDF	51207-31-9	0.0745	JQ	0.0250	1.04	1
11031	12378-PeCDF	57117-41-6	0.272	JB	0.0125	5.19	1
11031	23478-PeCDF	57117-31-4	0.259	JBQ	0.0133	5.19	1
11031	123478-HxCDF	70648-26-9	0.197	JB	0.0212	5.19	1
11031	123678-HxCDF	57117-44-9	0.184	JB	0.0183	5.19	1
11031	123789-HxCDF	72918-21-9	0.166	JBQ	0.0237	5.19	1
11031	234678-HxCDF	60851-34-5	0.198	JBQ	0.0193	5.19	1
11031	1234678-HpCDF	67562-39-4	0.901	JB	0.00978	5.19	1
11031	1234789-HpCDF	55673-89-7	0.136	JB	0.0225	5.19	1
11031	OCDF	39001-02-0	1.92	JB	0.0408	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	96	23 - 140
13C12-OCDD	107	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	131	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	64	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-175-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-175-SA7-SB

LLI Sample # SW 6457211
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2011 08:45

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1754 SDG#: DX153-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-175-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-175-SA7-SB

LLI Sample # SW 6457211
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2011 08:45

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1754 SDG#: DX153-14

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11312001	11/10/2011 06:58	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11312001	11/08/2011 09:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11315162401A	11/11/2011 22:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-175-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-175-SA7-SB

LLI Sample # SW 6457212
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2011 09:30

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1759 SDG#: DX153-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-175-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-175-SA7-SB

LLI Sample # SW 6457212
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2011 09:30

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1759 SDG#: DX153-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0511	J	0.0307	1.15	1
11031	12378-PeCDD	40321-76-4	0.0666	JB	0.0271	5.76	1
11031	123478-HxCDD	39227-28-6	0.0615	JQ	0.0227	5.76	1
11031	123678-HxCDD	57653-85-7	0.140	JB	0.0226	5.76	1
11031	123789-HxCDD	19408-74-3	0.134	JBQ	0.0228	5.76	1
11031	1234678-HpCDD	35822-46-9	2.68	JB	0.0301	5.76	1
11031	OCDD	3268-87-9	26.3	B	0.0293	11.5	1
11031	2378-TCDF	51207-31-9	0.0298	U	0.0298	1.15	1
11031	12378-PeCDF	57117-41-6	0.0646	JB	0.0132	5.76	1
11031	23478-PeCDF	57117-31-4	0.0865	JB	0.0139	5.76	1
11031	123478-HxCDF	70648-26-9	0.0572	JBQ	0.0189	5.76	1
11031	123678-HxCDF	57117-44-9	0.0255	JBQ	0.0160	5.76	1
11031	123789-HxCDF	72918-21-9	0.0448	JBQ	0.0226	5.76	1
11031	234678-HxCDF	60851-34-5	0.0794	JB	0.0167	5.76	1
11031	1234678-HpCDF	67562-39-4	0.359	JB	0.0104	5.76	1
11031	1234789-HpCDF	55673-89-7	0.105	JBQ	0.0266	5.76	1
11031	OCDF	39001-02-0	0.716	JB	0.0424	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	100	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	124	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	54	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-175-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-175-SA7-SB

LLI Sample # SW 6457212
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2011 09:30

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1759 SDG#: DX153-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-175-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-175-SA7-SB

LLI Sample # SW 6457212
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2011 09:30

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D1759 SDG#: DX153-15

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11312001	11/10/2011 07:54	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11312001	11/08/2011 09:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	2	11315162401A	11/11/2011 22:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-185-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-185-SA7-SB

LLI Sample # SW 6457213
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2011 14:30

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-185 SDG#: DX153-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	3.2	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

Sample Description: SL-185-SA7-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-185-SA7-SB

LLI Sample # SW 6457213
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2011 14:30

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-185 SDG#: DX153-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0292	U	0.0292	1.02	1
11031	12378-PeCDD	40321-76-4	0.0250	U	0.0250	5.12	1
11031	123478-HxCDD	39227-28-6	0.0419	JQ	0.0184	5.12	1
11031	123678-HxCDD	57653-85-7	0.120	JB	0.0191	5.12	1
11031	123789-HxCDD	19408-74-3	0.0869	JB	0.0201	5.12	1
11031	1234678-HpCDD	35822-46-9	2.21	JB	0.0237	5.12	1
11031	OCDD	3268-87-9	16.0	B	0.0219	10.2	1
11031	2378-TCDF	51207-31-9	0.0278	J	0.0193	1.02	1
11031	12378-PeCDF	57117-41-6	0.0144	JBQ	0.0114	5.12	1
11031	23478-PeCDF	57117-31-4	0.0608	JB	0.0120	5.12	1
11031	123478-HxCDF	70648-26-9	0.0801	JBQ	0.0155	5.12	1
11031	123678-HxCDF	57117-44-9	0.0418	JBQ	0.0129	5.12	1
11031	123789-HxCDF	72918-21-9	0.0648	JBQ	0.0164	5.12	1
11031	234678-HxCDF	60851-34-5	0.0693	JB	0.0134	5.12	1
11031	1234678-HpCDF	67562-39-4	0.443	JB	0.00826	5.12	1
11031	1234789-HpCDF	55673-89-7	0.0726	JB	0.0181	5.12	1
11031	OCDF	39001-02-0	1.01	JB	0.0305	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	111	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	58	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-185-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-185-SA7-SB

LLI Sample # SW 6457213
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2011 14:30

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-185 SDG#: DX153-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-185-SA7-SB-3.0-4.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-185-SA7-SB

LLI Sample # SW 6457213
LLI Group # 1274353
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/01/2011 14:30

Submitted: 11/02/2011 09:00
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

D-185 SDG#: DX153-16

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11312001	11/10/2011 08:51	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11312001	11/08/2011 09:00	Ginelle L Haines	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402A	11/21/2011 19:17	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1274353
Reported: 11/22/11 at 09:13 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11315162401A	Sample number(s): 6457204-6457209,6457211-6457212								
Moisture Content by 160.3					100		80-120		
Batch number: 11325162402A	Sample number(s): 6457203,6457210,6457213								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11312001	Sample number(s): 6457203-6457213								
2378-TCDD	0.0363 U	0.0363	1.00	ng/kg	111		67-158		
12378-PeCDD	0.0798 J	0.0298	5.00	ng/kg	108		70-142		
123478-HxCDD	0.0215 U	0.0215	5.00	ng/kg	105		70-164		
123678-HxCDD	0.0367 J	0.0206	5.00	ng/kg	103		76-134		
123789-HxCDD	0.0394 J	0.0210	5.00	ng/kg	107		64-162		
1234678-HpCDD	0.346 J	0.0222	5.00	ng/kg	104		70-140		
OCDD	0.581 J	0.0163	10.0	ng/kg	102		78-144		
2378-TCDF	0.0291 U	0.0291	1.00	ng/kg	106		75-158		
12378-PeCDF	0.0252 J	0.0149	5.00	ng/kg	108		80-134		
23478-PeCDF	0.0569 J	0.0150	5.00	ng/kg	99		68-160		
123478-HxCDF	0.0719 J	0.0162	5.00	ng/kg	104		72-134		
123678-HxCDF	0.0445 J	0.0151	5.00	ng/kg	107		84-130		
123789-HxCDF	0.0751 J	0.0163	5.00	ng/kg	105		78-130		
234678-HxCDF	0.0744 J	0.0148	5.00	ng/kg	103		70-156		
1234678-HpCDF	0.203 J	0.00860	5.00	ng/kg	95		82-122		
1234789-HpCDF	0.105 J	0.0145	5.00	ng/kg	103		78-138		
OCDF	0.318 J	0.0314	10.0	ng/kg	101		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11315162401A	Sample number(s): 6457204-6457209,6457211-6457212					BKG: P457197			
Moisture Content by 160.3						0.50 U	0.50 U	0 (1)	20
Batch number: 11325162402A	Sample number(s): 6457203,6457210,6457213					BKG: P465418			
Moisture Content by 160.3						10.3	10.3	1	20

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1274353
Reported: 11/22/11 at 09:13 AM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11312001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6457203	71	77	76	82	79	88
6457204	73	79	73	79	81	83
6457205	72	74	72	81	78	76
6457206	79	80	77	79	82	87
6457207	79	80	70	80	82	77
6457208	72	73	71	82	76	73
6457209	70	71	68	80	73	69
6457210	90	93	88	91	98	103
6457211	74	78	76	88	78	76
6457212	73	72	69	86	78	67
6457213	67	71	65	78	71	68
Blank	77	82	80	90	84	91
OPR	65	73	69	78	75	79
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6457203	99	85	91	76	82	83
6457204	95	79	83	78	87	86
6457205	104	71	73	76	88	87
6457206	91	85	92	79	89	87
6457207	107	71	69	81	88	87
6457208	114	67	64	74	88	89
6457209	112	65	61	72	86	85
6457210	104	99	105	91	99	100
6457211	131	69	64	79	84	85
6457212	124	60	54	77	86	89
6457213	111	62	58	72	83	84
Blank	122	89	96	85	93	96
OPR	112	77	83	76	82	84
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6457203	83	93	102	73	81
6457204	83	90	96	75	84
6457205	85	87	95	73	82
6457206	85	91	99	81	85
6457207	87	90	98	79	88
6457208	85	88	97	72	83
6457209	83	87	96	69	82
6457210	96	104	114	94	96
6457211	86	96	107	76	90
6457212	86	92	100	70	85
6457213	79	85	92	68	81
Blank	95	108	122	76	92
OPR	87	97	109	62	79

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1274353
Reported: 11/22/11 at 09:13 AM

Surrogate Quality Control

Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

13013 1274353 6457203-13

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
SL-001-SA7-SB-4.0-5.0	10/31/11	1515	SOIL	NONE	1-16 oz jar	X				
SL-120-SA7-SB-4.0-5.0	10/31/11	0930	SOIL	NONE	1-16 oz jar	X	X	X	X	
SL-120-SA7-SB-9.0-10.0	10/31/11	1040	SOIL	NONE	1-16 oz jar	X	X	X	X	
SL-121-SA7-SB-4.0-5.0	10/31/11	1150	SOIL	NONE	1-16 oz jar	X			X	
SL-121-SA7-SB-9.0-10.0	10/31/11	1215	SOIL	NONE	1-16 oz jar	X			X	
EB-SA7-SB-103111	10/31/11	1440	WATER	NONE	1-1 L amber			X		
SL-123-SA7-SB-4.0-5.0	11/1/11	1056	SOIL	NONE	1-16 oz jar	X			X	
SL-123-SA7-SB-9.0-10.0	11/1/11	1125	SOIL	NONE	1-16 oz jar	X			X	
SL-160-SA7-SB-0.0-1.0	11/1/11	1403	SOIL	NONE	1-8 oz jar	X				
SL-175-SA7-SB-4.0-5.0	11/1/11	0845	SOIL	NONE	1-16 oz jar	X			X	
SL-175-SA7-SB-9.0-10.0	11/1/11	0930	SOIL	NONE	1-16 oz jar	X			X	
SL-185-SA7-SB-3.0-4.0	11/1/11	1430	SOIL	NONE	1-8 oz jar	X				
TB-110111	11/1/11	1430	SOIL	NONE	1-4 oz jar			X		
TB-110111	11/1/11	1430	WATER	NONE	1-1 L amber			X		

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	11/1/2011 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8754 3341 0829	11/2/11 0906

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

December 05, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/04/2011
Group Number: 1274858
SDG: DE279
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-048-SA7-SB-4.0-5.0 Soil	6460110
SL-048-SA7-SB-9.0-10.0 Soil	6460111
SL-108-SA7-SB-2.9-3.9 Soil	6460112
SL-128-SA7-SB-4.0-5.0 Soil	6460113
SL-128-SA7-SB-9.0-10.0 Soil	6460114
SL-171-SA7-SB-4.0-5.0 Soil	6460115
SL-171-SA7-SB-9.0-10.0 Soil	6460116
EB-SA7-SB-110311 Water	6460117
EB-SA7-SB-110311 Water	6460118
TB-110311 Sand	6460119
TB-110311 Water	6460120

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Sarah M. Snyder
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: SL-048-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA7-SB

LLI Sample # SW 6460110
LLI Group # 1274858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2011 09:15

Submitted: 11/04/2011 09:10
Reported: 12/05/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7901 SDG#: DE279-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	17.6	U	17.6	35.2	1
	The internal standard peak areas were outside of QC limits in the method blank and LCS associated with this sample. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.						
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	630	U	630	1,600	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.3		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11313SLF026	11/17/2011 01:15	Matthew S Woods	1
11630	NDMA Soil Microwave	SW-846 3546	1	11313SLF026	11/10/2011 11:45	Kelli M Barto	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	113110002A	11/08/2011 19:48	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	113110002A	11/07/2011 15:00	Wanda F Oswald	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	113140011A	11/14/2011 18:21	Robert Brown	1
10303	Terphenyls soil prep	SW-846 3550B	1	113140011A	11/10/2011 18:00	David S Schrum	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401B	11/07/2011 22:36	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: SL-048-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA7-SB

LLI Sample # SW 6460111
LLI Group # 1274858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2011 10:00

Submitted: 11/04/2011 09:10
Reported: 12/05/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7902 SDG#: DE279-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	176	U	176	352	10
	The internal standard peak areas were outside of QC limits in the method blank and LCS associated with this sample. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.						
	Reporting limits were raised due to interference from the sample matrix.						
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	620	U	620	1,600	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.2		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11313SLF026	11/17/2011 01:34	Matthew S Woods	10
11630	NDMA Soil Microwave	SW-846 3546	1	11313SLF026	11/10/2011 11:45	Kelli M Barto	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	113110002A	11/08/2011 19:58	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	113110002A	11/07/2011 15:00	Wanda F Oswald	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	113140011A	11/14/2011 17:59	Robert Brown	1
10303	Terphenyls soil prep	SW-846 3550B	1	113140011A	11/10/2011 18:00	David S Schrum	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401B	11/07/2011 22:36	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-108-SA7-SB-2.9-3.9 Soil**
SSFL Area IV Collocated Soil Sampling
SL-108-SA7-SB

LLI Sample # SW 6460112
LLI Group # 1274858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2011 09:15

Submitted: 11/04/2011 09:10
Reported: 12/05/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7903 SDG#: DE279-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	173	U	173	345	10
	The internal standard peak areas were outside of QC limits in the method blank and LCS associated with this sample. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.						
	Reporting limits were raised due to interference from the sample matrix.						
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	620	U	620	1,600	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.6	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.6	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.6	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	3.4		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11313SLF026	11/17/2011 01:53	Matthew S Woods	10
11630	NDMA Soil Microwave	SW-846 3546	1	11313SLF026	11/10/2011 11:45	Kelli M Barto	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	113110002A	11/08/2011 20:07	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	113110002A	11/07/2011 15:00	Wanda F Oswald	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	113140011A	11/14/2011 19:50	Robert Brown	1
10303	Terphenyls soil prep	SW-846 3550B	1	113140011A	11/10/2011 18:00	David S Schrum	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401B	11/07/2011 22:36	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-128-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA7-SB

LLI Sample # SW 6460113
LLI Group # 1274858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2011 10:05

Submitted: 11/04/2011 09:10
Reported: 12/05/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7904 SDG#: DE279-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	178	U	178	357	10
	The internal standard peak areas were outside of QC limits in the method blank and LCS associated with this sample. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.						
	Reporting limits were raised due to interference from the sample matrix.						
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	640	U	640	1,600	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.6		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11313SLF026	11/17/2011 02:12	Matthew S Woods	10
11630	NDMA Soil Microwave	SW-846 3546	1	11313SLF026	11/10/2011 11:45	Kelli M Barto	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	113110002A	11/08/2011 20:17	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	113110002A	11/07/2011 15:00	Wanda F Oswald	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	113140011A	11/14/2011 20:57	Robert Brown	1
10303	Terphenyls soil prep	SW-846 3550B	1	113140011A	11/10/2011 18:00	David S Schrum	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401B	11/07/2011 22:36	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-128-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-128-SA7-SB

LLI Sample # SW 6460114
LLI Group # 1274858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2011 10:35

Submitted: 11/04/2011 09:10
Reported: 12/05/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7905 SDG#: DE279-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	179	U	179	358	10
	The internal standard peak areas were outside of QC limits in the method blank and LCS associated with this sample. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.						
	Reporting limits were raised due to interference from the sample matrix.						
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	640	U	640	1,600	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.9		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11313SLF026	11/17/2011 02:32	Matthew S Woods	10
11630	NDMA Soil Microwave	SW-846 3546	1	11313SLF026	11/10/2011 11:45	Kelli M Barto	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	113110002A	11/08/2011 20:36	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	113110002A	11/07/2011 15:00	Wanda F Oswald	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	113140011A	11/14/2011 21:41	Robert Brown	1
10303	Terphenyls soil prep	SW-846 3550B	1	113140011A	11/10/2011 18:00	David S Schrum	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401B	11/07/2011 22:36	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-171-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA7-SB

LLI Sample # SW 6460115
LLI Group # 1274858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2011 13:25

Submitted: 11/04/2011 09:10
Reported: 12/05/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7906 SDG#: DE279-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	174	U	174	349	10
	The internal standard peak areas were outside of QC limits in the method blank and LCS associated with this sample. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.						
	Reporting limits were raised due to interference from the sample matrix.						
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	630	U	630	1,600	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	4.4		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11313SLF026	11/17/2011 03:10	Matthew S Woods	10
11630	NDMA Soil Microwave	SW-846 3546	1	11313SLF026	11/10/2011 11:45	Kelli M Barto	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	113110002A	11/08/2011 20:45	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	113110002A	11/07/2011 15:00	Wanda F Oswald	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	113140011A	11/14/2011 22:26	Robert Brown	1
10303	Terphenyls soil prep	SW-846 3550B	1	113140011A	11/10/2011 18:00	David S Schrum	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401B	11/07/2011 22:36	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: SL-171-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA7-SB

LLI Sample # SW 6460116
LLI Group # 1274858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2011 14:05

Submitted: 11/04/2011 09:10
Reported: 12/05/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7907 SDG#: DE279-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	175	U	175	350	10
	The internal standard peak areas were outside of QC limits in the method blank and LCS associated with this sample. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.						
	Reporting limits were raised due to interference from the sample matrix.						
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	620	U	620	1,600	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.3		0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11313SLF026	11/17/2011 03:29	Matthew S Woods	10
11630	NDMA Soil Microwave	SW-846 3546	1	11313SLF026	11/10/2011 11:45	Kelli M Barto	1
04173	20a Formaldehyde 8315A	SW-846 8315A	1	113110002A	11/08/2011 20:55	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	113110002A	11/07/2011 15:00	Wanda F Oswald	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	113140011A	11/14/2011 23:33	Robert Brown	1
10303	Terphenyls soil prep	SW-846 3550B	1	113140011A	11/10/2011 18:00	David S Schrum	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401B	11/07/2011 22:36	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: EB-SA7-SB-110311 Water
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB

LLI Sample # WW 6460117
LLI Group # 1274858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2011 15:00

Submitted: 11/04/2011 09:10
Reported: 12/05/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7908 SDG#: DE279-08EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/l**		**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	1.59		0.500	0.999	1
	The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.						
HPLC Organics	**SW-846 8315A**		**ug/l**		**ug/l**	**ug/l**	
04144	20b Formaldehyde 8315A	50-00-0	10	U	10	50	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/l**		**mg/l**	**mg/l**	
10319	m-Terphenyl	92-06-8	0.080	U	0.080	0.25	1
10319	o-Terphenyl	84-15-1	0.080	U	0.080	0.25	1
10319	p-Terphenyl	92-94-4	0.080	U	0.080	0.25	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. Sufficient sample was not available to repeat the analysis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11309WAD026	11/16/2011 21:44	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11309WAD026	11/07/2011 05:00	David V Hershey Jr	1
04144	20b Formaldehyde 8315A	SW-846 8315A	1	113080018A	11/07/2011 22:07	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	113080018A	11/05/2011 08:15	Kelli M Barto	1
10319	22b Terphenyls by 8015B	SW-846 8015B	1	113120003A	11/09/2011 16:29	Robert Brown	1
10304	Terphenyls water prep	SW-846 3510C	1	113120003A	11/08/2011 17:55	Bronson L Cole	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **EB-SA7-SB-110311 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB

LLI Sample # WW 6460118
LLI Group # 1274858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2011 14:00

Submitted: 11/04/2011 09:10
Reported: 12/05/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7909 SDG#: DE279-09EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	1.53	0.502	1.00	1

The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11309WAD026	11/16/2011 22:03	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11309WAD026	11/07/2011 05:00	David V Hershey Jr	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **TB-110311 Sand**
SSFL Area IV Collocated Soil Sampling
TB

LLI Sample # SW 6460119
LLI Group # 1274858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2011 08:00

Submitted: 11/04/2011 09:10
Reported: 12/05/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7910 SDG#: DE279-10TB

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	16.7	U	16.7	33.3	1
	The internal standard peak areas were outside of QC limits in the method blank and LCS associated with this sample. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.						
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.50	U	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11313SLF026	11/17/2011 03:48	Matthew S Woods	1
11630	NDMA Soil Microwave	SW-846 3546	1	11313SLF026	11/10/2011 11:45	Kelli M Barto	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401B	11/07/2011 22:36	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-110311 Water**
SSFL Area IV Collocated Soil Sampling
TB

LLI Sample # WW 6460120
LLI Group # 1274858
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2011 08:00

Submitted: 11/04/2011 09:10
Reported: 12/05/2011 13:06

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E7911 SDG#: DE279-11TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	0.478 U	0.478	0.955	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11309WAD026	11/16/2011 22:23	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11309WAD026	11/07/2011 05:00	David V Hershey Jr	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1274858
Reported: 12/05/11 at 01:06 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11309WAD026	Sample number(s): 6460117-6460118,6460120									
N-Nitrosodimethylamine	0.500	U	0.500	1.00	ng/l	88	88	70-130	0	30
Batch number: 11313SLF026	Sample number(s): 6460110-6460116,6460119									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	89		70-130		
Batch number: 113080018A	Sample number(s): 6460117									
20b Formaldehyde 8315A	10	U	10.	50	ug/l	100	102	69-130	2	30
Batch number: 113110002A	Sample number(s): 6460110-6460116									
20a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	106		80-126		
Batch number: 113120003A	Sample number(s): 6460117									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	96	65	61-108	38*	20
o-Terphenyl	0.080	U	0.080	0.25	mg/l	96	64*	75-125	40*	20
p-Terphenyl	0.080	U	0.080	0.25	mg/l	96	65	63-110	39*	20
Batch number: 113140011A	Sample number(s): 6460110-6460116									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	105		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	107		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	106		69-109		
Batch number: 11311162401B	Sample number(s): 6460110-6460116,6460119									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11313SLF026	Sample number(s): 6460110-6460116,6460119 UNSPK: P457188								
N-Nitrosodimethylamine	84	83	70-130	1	30				
Batch number: 113110002A	Sample number(s): 6460110-6460116 UNSPK: P457188								
20a Formaldehyde 8315A	113	116	80-120	3	50				
Batch number: 113140011A	Sample number(s): 6460110-6460116 UNSPK: 6460110								
m-Terphenyl	108	105	75-125	2	20				
o-Terphenyl	109	107	75-125	2	20				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1274858
Reported: 12/05/11 at 01:06 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
p-Terphenyl	109	106	75-125	2	20				
Batch number: 11311162401B	Sample number(s): 6460110-6460116,6460119					BKG: 6460111			
Moisture Content by 160.3						5.2	5.1	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 21b. NDMA in Water
Batch number: 11309WAD026

	N-Nitrosodimethylamine-d6
6460117	181*
6460118	185*
6460120	309*
Blank	113
LCS	120
LCSD	117
Limits:	50-150

Analysis Name: 21a NDMA by 1625C
Batch number: 11313SLF026

	N-Nitrosodimethylamine-d6
6460110	143
6460111	136
6460112	129
6460113	131
6460114	132
6460115	128
6460116	127
6460119	129
Blank	136
LCS	148
MS	133
MSD	138
Limits:	50-150

Analysis Name: 20b Formaldehyde 8315A
Batch number: 113080018A

	Butyraldehyde
6460117	96
Blank	94

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1274858
Reported: 12/05/11 at 01:06 PM

Surrogate Quality Control

LCS	94
LCSD	95
Limits:	45-145

Analysis Name: 20a Formaldehyde 8315A
Batch number: 113110002A

	Butyraldehyde
6460110	84
6460111	79
6460112	96
6460113	90
6460114	84
6460115	93
6460116	94
Blank	96
LCS	84
MS	97
MSD	84
Limits:	64-126

Analysis Name: 22b Terphenyls by 8015B
Batch number: 113120003A

	n-Triacontane-d62
6460117	21
Blank	67
LCS	70
LCSD	46
Limits:	17-138

Analysis Name: 22a Terphenyls by 8015B
Batch number: 113140011A

	n-Triacontane-d62
6460110	76
6460111	85
6460112	74
6460113	76
6460114	75
6460115	73
6460116	75
Blank	95
LCS	75
MS	78
MSD	75
Limits:	19-152

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct# 13013 Ap# 1374558 Sample# 6460110 20

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
SL-048-SA7-SB-4.0-5.0	11.02.11	0915	SOIL	NONE	1 16 oz Jar	X	X	X	X	
SL-048-SA7-SB-9.0-10.0	11.02.11	1000	SOIL	NONE	1 16 oz Jar	X	X	X	X	
SL-161-SA7-SB-4.0-5.0	11.02.11	1320	SOIL	NONE	1 8 oz Jar	X				
SL-108-SA7-SB-2.9-3.9	11.03.11	0915	SOIL	NONE	1 16 oz Jar	X	X	X	X	
SL-128-SA7-SB-4.0-5.0	11.03.11	1005	SOIL	NONE	1 16 oz Jar	X	X	X	X	
SL-128-SA7-SB-9.0-10.0	11.03.11	1035	SOIL	NONE	1 16 oz Jar	X	X	X	X	
SL-171-SA7-SB-4.0-5.0	11.03.11	1325	SOIL	NONE	1 16 oz Jar	X	X	X	X	
SL-171-SA7-SB-9.0-10.0	11.03.11	1405	SOIL	NONE	1 16 oz Jar	X	X	X	X	
EB-SA7-SB-110311	11.03.11	1500	WATER	NONE	3-1 L Amber	X		X	X	ASTM II WATER
EB-SA7-SB-110311	11.03.11	1500	WATER	NONE	2-250 mL Amber		X			ASTM II WATER
EB-SA7-SB-110311	11.03.11	1400	WATER	NONE	1-1 L amber			X		HGL WATER
TB-110311	11.03.11	0800	SOIL	NONE	1-4 oz jar			X		
TB-110311	11.03.11	0800	WATER	NONE	1-1 L amber			X		

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	11/03/2011 / 1630	11/4/11 0910	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8767 9857 4880	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 22, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/04/2011
Group Number: 1274859
SDG: DX154
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-048-SA7-SB-4.0-5.0 Soil	6460121
SL-048-SA7-SB-9.0-10.0 Soil	6460122
SL-161-SA7-SB-4.0-5.0 Soil	6460123
SL-108-SA7-SB-2.9-3.9 Soil	6460124
SL-128-SA7-SB-4.0-5.0 Soil	6460125
SL-128-SA7-SB-9.0-10.0 Soil	6460126
SL-171-SA7-SB-4.0-5.0 Soil	6460127
SL-171-SA7-SB-9.0-10.0 Soil	6460128
EB-SA7-SB-110311 Water	6460129

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-048-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA7-SB

LLI Sample # SW 6460121
LLI Group # 1274859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2011 09:15

Submitted: 11/04/2011 09:10
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5401 SDG#: DX154-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-048-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA7-SB

LLI Sample # SW 6460121
LLI Group # 1274859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2011 09:15

Submitted: 11/04/2011 09:10
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5401 SDG#: DX154-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0313	U	0.0313	1.02	1
11031	12378-PeCDD	40321-76-4	0.105	JQ	0.0262	5.08	1
11031	123478-HxCDD	39227-28-6	0.0238	U	0.0238	5.08	1
11031	123678-HxCDD	57653-85-7	0.140	JB	0.0238	5.08	1
11031	123789-HxCDD	19408-74-3	0.134	J	0.0231	5.08	1
11031	1234678-HpCDD	35822-46-9	2.50	JB	0.0345	5.08	1
11031	OCDD	3268-87-9	24.6	B	0.0277	10.2	1
11031	2378-TCDF	51207-31-9	0.0250	U	0.0250	1.02	1
11031	12378-PeCDF	57117-41-6	0.139	JB	0.0140	5.08	1
11031	23478-PeCDF	57117-31-4	0.102	JB	0.0138	5.08	1
11031	123478-HxCDF	70648-26-9	0.0554	JB	0.0152	5.08	1
11031	123678-HxCDF	57117-44-9	0.0544	JBQ	0.0138	5.08	1
11031	123789-HxCDF	72918-21-9	0.0647	JBQ	0.0159	5.08	1
11031	234678-HxCDF	60851-34-5	0.0682	JB	0.0135	5.08	1
11031	1234678-HpCDF	67562-39-4	0.298	JB	0.0113	5.08	1
11031	1234789-HpCDF	55673-89-7	0.0802	JB	0.0170	5.08	1
11031	OCDF	39001-02-0	0.623	JB	0.0343	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	76	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-048-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA7-SB

LLI Sample # SW 6460121
LLI Group # 1274859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2011 09:15

Submitted: 11/04/2011 09:10
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5401 SDG#: DX154-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-048-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA7-SB

LLI Sample # SW 6460121
LLI Group # 1274859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2011 09:15

Submitted: 11/04/2011 09:10
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5401 SDG#: DX154-01

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11314001	11/11/2011 20:03	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11314001	11/10/2011 10:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401B	11/07/2011 22:36	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-048-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA7-SB

LLI Sample # SW 6460122
LLI Group # 1274859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2011 10:00

Submitted: 11/04/2011 09:10
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5402 SDG#: DX154-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.2	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-048-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-048-SA7-SB

LLI Sample # SW 6460122
LLI Group # 1274859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2011 10:00

Submitted: 11/04/2011 09:10
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5402 SDG#: DX154-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0307	U	0.0307	1.03	1
11031	12378-PeCDD	40321-76-4	0.0414	J	0.0271	5.13	1
11031	123478-HxCDD	39227-28-6	0.0366	J	0.0241	5.13	1
11031	123678-HxCDD	57653-85-7	0.118	JBQ	0.0256	5.13	1
11031	123789-HxCDD	19408-74-3	0.140	J	0.0238	5.13	1
11031	1234678-HpCDD	35822-46-9	2.79	JB	0.0331	5.13	1
11031	OCDD	3268-87-9	33.4	B	0.0280	10.3	1
11031	2378-TCDF	51207-31-9	0.0278	J	0.0256	1.03	1
11031	12378-PeCDF	57117-41-6	0.0987	JBQ	0.0142	5.13	1
11031	23478-PeCDF	57117-31-4	0.0686	JBQ	0.0139	5.13	1
11031	123478-HxCDF	70648-26-9	0.0365	JB	0.0174	5.13	1
11031	123678-HxCDF	57117-44-9	0.0367	JB	0.0152	5.13	1
11031	123789-HxCDF	72918-21-9	0.167	JB	0.0196	5.13	1
11031	234678-HxCDF	60851-34-5	0.0292	JBQ	0.0154	5.13	1
11031	1234678-HpCDF	67562-39-4	0.370	JB	0.0121	5.13	1
11031	1234789-HpCDF	55673-89-7	0.0613	JBQ	0.0191	5.13	1
11031	OCDF	39001-02-0	0.735	JB	0.0281	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	96	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	79	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-048-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA7-SB

LLI Sample # SW 6460122
LLI Group # 1274859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2011 10:00

Submitted: 11/04/2011 09:10
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5402 SDG#: DX154-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-048-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-048-SA7-SB

LLI Sample # SW 6460122
LLI Group # 1274859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2011 10:00

Submitted: 11/04/2011 09:10
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5402 SDG#: DX154-02

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11314001	11/11/2011 21:00	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11314001	11/10/2011 10:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401B	11/07/2011 22:36	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-161-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-161-SA7-SB

LLI Sample # SW 6460123
LLI Group # 1274859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2011 13:20

Submitted: 11/04/2011 09:10
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5403 SDG#: DX154-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11624	Moisture Content by 160.3	n.a.	5.1	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

*=This limit was used in the evaluation of the final result

Sample Description: **SL-161-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-161-SA7-SB

LLI Sample # SW 6460123
LLI Group # 1274859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2011 13:20

Submitted: 11/04/2011 09:10
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5403 SDG#: DX154-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0293	U	0.0293	1.05	1
11031	12378-PeCDD	40321-76-4	0.0217	U	0.0217	5.24	1
11031	123478-HxCDD	39227-28-6	0.0175	U	0.0175	5.24	1
11031	123678-HxCDD	57653-85-7	0.0448	JBQ	0.0183	5.24	1
11031	123789-HxCDD	19408-74-3	0.0317	J	0.0182	5.24	1
11031	1234678-HpCDD	35822-46-9	0.408	JB	0.0213	5.24	1
11031	OCDD	3268-87-9	2.87	JB	0.0192	10.5	1
11031	2378-TCDF	51207-31-9	0.0247	U	0.0247	1.05	1
11031	12378-PeCDF	57117-41-6	0.0180	JBQ	0.0105	5.24	1
11031	23478-PeCDF	57117-31-4	0.0386	JBQ	0.0102	5.24	1
11031	123478-HxCDF	70648-26-9	0.0105	U	0.0105	5.24	1
11031	123678-HxCDF	57117-44-9	0.0222	JBQ	0.00938	5.24	1
11031	123789-HxCDF	72918-21-9	0.0479	JBQ	0.0125	5.24	1
11031	234678-HxCDF	60851-34-5	0.0209	JBQ	0.00906	5.24	1
11031	1234678-HpCDF	67562-39-4	0.0788	JBQ	0.00843	5.24	1
11031	1234789-HpCDF	55673-89-7	0.0225	JB	0.0140	5.24	1
11031	OCDF	39001-02-0	0.140	JB	0.0301	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	88	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	94	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	74	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-161-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-161-SA7-SB

LLI Sample # SW 6460123
LLI Group # 1274859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2011 13:20

Submitted: 11/04/2011 09:10
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5403 SDG#: DX154-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-161-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-161-SA7-SB

LLI Sample # SW 6460123
LLI Group # 1274859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/02/2011 13:20

Submitted: 11/04/2011 09:10
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5403 SDG#: DX154-03

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11314001	11/11/2011 21:56	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11314001	11/10/2011 10:45	Ginelle L Haines	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11325162402A	11/21/2011 19:17	Scott W Freisher	1

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Analysis Report

Sample Description: **SL-108-SA7-SB-2.9-3.9 Soil**
SSFL Area IV Collocated Soil Sampling
SL-108-SA7-SB

LLI Sample # SW 6460124
LLI Group # 1274859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2011 09:15

Submitted: 11/04/2011 09:10
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5404 SDG#: DX154-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	3.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-108-SA7-SB-2.9-3.9 Soil
SSFL Area IV Collocated Soil Sampling
SL-108-SA7-SB

LLI Sample # SW 6460124
LLI Group # 1274859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2011 09:15

Submitted: 11/04/2011 09:10
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5404 SDG#: DX154-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0324	J	0.0302	1.00	1
11031	12378-PeCDD	40321-76-4	0.0740	JQ	0.0313	5.02	1
11031	123478-HxCDD	39227-28-6	0.0347	U	0.0347	5.02	1
11031	123678-HxCDD	57653-85-7	0.348	JB	0.0369	5.02	1
11031	123789-HxCDD	19408-74-3	0.273	J	0.0334	5.02	1
11031	1234678-HpCDD	35822-46-9	9.73	B	0.0474	5.02	1
11031	OCDD	3268-87-9	100	B	0.0473	10.0	1
11031	2378-TCDF	51207-31-9	0.0270	U	0.0270	1.00	1
11031	12378-PeCDF	57117-41-6	0.101	JBQ	0.0167	5.02	1
11031	23478-PeCDF	57117-31-4	0.117	JBQ	0.0164	5.02	1
11031	123478-HxCDF	70648-26-9	0.105	JBQ	0.0210	5.02	1
11031	123678-HxCDF	57117-44-9	0.0758	JBQ	0.0192	5.02	1
11031	123789-HxCDF	72918-21-9	0.0911	JB	0.0227	5.02	1
11031	234678-HxCDF	60851-34-5	0.0929	JB	0.0195	5.02	1
11031	1234678-HpCDF	67562-39-4	0.944	JB	0.0172	5.02	1
11031	1234789-HpCDF	55673-89-7	0.116	JBQ	0.0271	5.02	1
11031	OCDF	39001-02-0	2.35	JB	0.0360	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	62	25 - 181
13C12-123478-HxCDD	69	32 - 141
13C12-123678-HxCDD	68	28 - 130
13C12-123789-HxCDD	68	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	59	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	64	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-108-SA7-SB-2.9-3.9 Soil**
SSFL Area IV Collocated Soil Sampling
SL-108-SA7-SB

LLI Sample # SW 6460124
LLI Group # 1274859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2011 09:15

Submitted: 11/04/2011 09:10
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5404 SDG#: DX154-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-108-SA7-SB-2.9-3.9 Soil**
SSFL Area IV Collocated Soil Sampling
SL-108-SA7-SB

LLI Sample # SW 6460124
LLI Group # 1274859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2011 09:15

Submitted: 11/04/2011 09:10
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5404 SDG#: DX154-04

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11314001	11/11/2011 22:53	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11314001	11/10/2011 10:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401B	11/07/2011 22:36	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-128-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA7-SB

LLI Sample # SW 6460125
LLI Group # 1274859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2011 10:05

Submitted: 11/04/2011 09:10
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5405 SDG#: DX154-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.6	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-128-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA7-SB

LLI Sample # SW 6460125
LLI Group # 1274859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2011 10:05

Submitted: 11/04/2011 09:10
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5405 SDG#: DX154-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0324	JQ	0.0254	1.03	1
11031	12378-PeCDD	40321-76-4	0.0429	JQ	0.0308	5.17	1
11031	123478-HxCDD	39227-28-6	0.113	J	0.0346	5.17	1
11031	123678-HxCDD	57653-85-7	0.515	JB	0.0363	5.17	1
11031	123789-HxCDD	19408-74-3	0.285	J	0.0375	5.17	1
11031	1234678-HpCDD	35822-46-9	20.4	B	0.0715	5.17	1
11031	OCDD	3268-87-9	323	B	0.0615	10.3	1
11031	2378-TCDF	51207-31-9	0.0282	JQ	0.0256	1.03	1
11031	12378-PeCDF	57117-41-6	0.0521	JB	0.0156	5.17	1
11031	23478-PeCDF	57117-31-4	0.0470	JBQ	0.0153	5.17	1
11031	123478-HxCDF	70648-26-9	0.216	JB	0.0238	5.17	1
11031	123678-HxCDF	57117-44-9	0.133	JBQ	0.0214	5.17	1
11031	123789-HxCDF	72918-21-9	0.207	JBQ	0.0227	5.17	1
11031	234678-HxCDF	60851-34-5	0.163	JB	0.0207	5.17	1
11031	1234678-HpCDF	67562-39-4	2.54	JB	0.0193	5.17	1
11031	1234789-HpCDF	55673-89-7	0.259	JB	0.0257	5.17	1
11031	OCDF	39001-02-0	5.91	JB	0.0294	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	81	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-128-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA7-SB

LLI Sample # SW 6460125
LLI Group # 1274859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2011 10:05

Submitted: 11/04/2011 09:10
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5405 SDG#: DX154-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-128-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA7-SB

LLI Sample # SW 6460125
LLI Group # 1274859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2011 10:05

Submitted: 11/04/2011 09:10
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5405 SDG#: DX154-05

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11314001	11/11/2011 23:50	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11314001	11/10/2011 10:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401B	11/07/2011 22:36	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-128-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA7-SB

LLI Sample # SW 6460126
LLI Group # 1274859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2011 10:35

Submitted: 11/04/2011 09:10
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5406 SDG#: DX154-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.9	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-128-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA7-SB

LLI Sample # SW 6460126
LLI Group # 1274859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2011 10:35

Submitted: 11/04/2011 09:10
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5406 SDG#: DX154-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0289	U	0.0289	1.07	1
11031	12378-PeCDD	40321-76-4	0.0671	JQ	0.0314	5.33	1
11031	123478-HxCDD	39227-28-6	0.0793	J	0.0311	5.33	1
11031	123678-HxCDD	57653-85-7	0.230	JBQ	0.0335	5.33	1
11031	123789-HxCDD	19408-74-3	0.213	JQ	0.0315	5.33	1
11031	1234678-HpCDD	35822-46-9	6.87	B	0.0426	5.33	1
11031	OCDD	3268-87-9	66.7	B	0.0396	10.7	1
11031	2378-TCDF	51207-31-9	0.0260	U	0.0260	1.07	1
11031	12378-PeCDF	57117-41-6	0.0361	JB	0.0155	5.33	1
11031	23478-PeCDF	57117-31-4	0.0499	JB	0.0149	5.33	1
11031	123478-HxCDF	70648-26-9	0.0898	JB	0.0211	5.33	1
11031	123678-HxCDF	57117-44-9	0.108	JB	0.0193	5.33	1
11031	123789-HxCDF	72918-21-9	0.0882	JBQ	0.0226	5.33	1
11031	234678-HxCDF	60851-34-5	0.0773	JBQ	0.0194	5.33	1
11031	1234678-HpCDF	67562-39-4	0.777	JB	0.0158	5.33	1
11031	1234789-HpCDF	55673-89-7	0.0643	JBQ	0.0223	5.33	1
11031	OCDF	39001-02-0	1.74	JB	0.0295	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	95	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	81	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-128-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA7-SB

LLI Sample # SW 6460126
LLI Group # 1274859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2011 10:35

Submitted: 11/04/2011 09:10
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5406 SDG#: DX154-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-128-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-128-SA7-SB

LLI Sample # SW 6460126
LLI Group # 1274859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2011 10:35

Submitted: 11/04/2011 09:10
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5406 SDG#: DX154-06

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11314001	11/12/2011 00:46	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11314001	11/10/2011 10:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401B	11/07/2011 22:36	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-171-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-171-SA7-SB

LLI Sample # SW 6460127
LLI Group # 1274859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2011 13:25

Submitted: 11/04/2011 09:10
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5407 SDG#: DX154-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	4.4	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-171-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-171-SA7-SB

LLI Sample # SW 6460127
LLI Group # 1274859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2011 13:25

Submitted: 11/04/2011 09:10
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5407 SDG#: DX154-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0279	U	0.0279	1.03	1
11031	12378-PeCDD	40321-76-4	0.0412	JQ	0.0290	5.15	1
11031	123478-HxCDD	39227-28-6	0.0612	J	0.0294	5.15	1
11031	123678-HxCDD	57653-85-7	0.327	JB	0.0295	5.15	1
11031	123789-HxCDD	19408-74-3	0.216	J	0.0277	5.15	1
11031	1234678-HpCDD	35822-46-9	13.1	B	0.0478	5.15	1
11031	OCDD	3268-87-9	125	B	0.0449	10.3	1
11031	2378-TCDF	51207-31-9	0.0265	U	0.0265	1.03	1
11031	12378-PeCDF	57117-41-6	0.0901	JB	0.0182	5.15	1
11031	23478-PeCDF	57117-31-4	0.0890	JB	0.0173	5.15	1
11031	123478-HxCDF	70648-26-9	0.124	JB	0.0189	5.15	1
11031	123678-HxCDF	57117-44-9	0.0997	JB	0.0177	5.15	1
11031	123789-HxCDF	72918-21-9	0.0887	JB	0.0184	5.15	1
11031	234678-HxCDF	60851-34-5	0.163	JB	0.0172	5.15	1
11031	1234678-HpCDF	67562-39-4	0.873	JB	0.0149	5.15	1
11031	1234789-HpCDF	55673-89-7	0.108	JB	0.0194	5.15	1
11031	OCDF	39001-02-0	2.08	JB	0.0293	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	79	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-171-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-171-SA7-SB

LLI Sample # SW 6460127
LLI Group # 1274859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2011 13:25

Submitted: 11/04/2011 09:10
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5407 SDG#: DX154-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	*Saturation of detection signal*					

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-171-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-171-SA7-SB

LLI Sample # SW 6460127
LLI Group # 1274859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2011 13:25

Submitted: 11/04/2011 09:10
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5407 SDG#: DX154-07

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11314001	11/12/2011 01:43	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11314001	11/10/2011 10:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401B	11/07/2011 22:36	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-171-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-171-SA7-SB

LLI Sample # SW 6460128
LLI Group # 1274859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2011 14:05

Submitted: 11/04/2011 09:10
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5408 SDG#: DX154-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.3	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-171-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-171-SA7-SB

LLI Sample # SW 6460128
LLI Group # 1274859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2011 14:05

Submitted: 11/04/2011 09:10
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5408 SDG#: DX154-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0554	JQ	0.0283	1.06	1
11031	12378-PeCDD	40321-76-4	0.205	J	0.0328	5.28	1
11031	123478-HxCDD	39227-28-6	0.116	J	0.0353	5.28	1
11031	123678-HxCDD	57653-85-7	0.413	JB	0.0384	5.28	1
11031	123789-HxCDD	19408-74-3	0.274	J	0.0367	5.28	1
11031	1234678-HpCDD	35822-46-9	15.5	B	0.0545	5.28	1
11031	OCDD	3268-87-9	153	B	0.0549	10.6	1
11031	2378-TCDF	51207-31-9	0.0481	J	0.0275	1.06	1
11031	12378-PeCDF	57117-41-6	0.221	JBQ	0.0192	5.28	1
11031	23478-PeCDF	57117-31-4	0.271	JB	0.0173	5.28	1
11031	123478-HxCDF	70648-26-9	0.158	JB	0.0232	5.28	1
11031	123678-HxCDF	57117-44-9	0.146	JB	0.0224	5.28	1
11031	123789-HxCDF	72918-21-9	0.120	JBQ	0.0242	5.28	1
11031	234678-HxCDF	60851-34-5	0.139	JB	0.0210	5.28	1
11031	1234678-HpCDF	67562-39-4	1.09	JB	0.0174	5.28	1
11031	1234789-HpCDF	55673-89-7	0.0839	JB	0.0226	5.28	1
11031	OCDF	39001-02-0	2.45	JB	0.0282	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	94	32 - 141
13C12-123678-HxCDD	91	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	98	17 - 157
13C12-2378-TCDF	89	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	89	28 - 136
13C12-123789-HxCDF	90	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	87	26 - 138
13C12-OCDF	93	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-171-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-171-SA7-SB

LLI Sample # SW 6460128
LLI Group # 1274859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2011 14:05

Submitted: 11/04/2011 09:10
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5408 SDG#: DX154-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-171-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-171-SA7-SB

LLI Sample # SW 6460128
LLI Group # 1274859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2011 14:05

Submitted: 11/04/2011 09:10
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5408 SDG#: DX154-08

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11314001	11/12/2011 02:40	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11314001	11/10/2011 10:45	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11311162401B	11/07/2011 22:36	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA7-SB-110311 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB

LLI Sample # WW 6460129
LLI Group # 1274859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2011 15:00

Submitted: 11/04/2011 09:10
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5409 SDG#: DX154-09EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		pg/l		pg/l	pg/l	
10915	2378-TCDD	1746-01-6	0.253	U	0.253	1.97	1
10915	12378-PeCDD	40321-76-4	0.223	U	0.223	9.84	1
10915	123478-HxCDD	39227-28-6	0.159	U	0.159	9.84	1
10915	123678-HxCDD	57653-85-7	0.219	JBQ	0.169	9.84	1
10915	123789-HxCDD	19408-74-3	0.285	JB	0.169	9.84	1
10915	1234678-HpCDD	35822-46-9	2.43	JBQ	0.204	9.84	1
10915	OCDD	3268-87-9	4.20	JBQ	0.248	19.7	1
10915	2378-TCDF	51207-31-9	0.165	JBQ	0.138	1.97	1
10915	12378-PeCDF	57117-41-6	0.151	JBQ	0.104	9.84	1
10915	23478-PeCDF	57117-31-4	0.343	JBQ	0.0971	9.84	1
10915	123478-HxCDF	70648-26-9	0.248	JBQ	0.106	9.84	1
10915	123678-HxCDF	57117-44-9	0.262	JQ	0.103	9.84	1
10915	123789-HxCDF	72918-21-9	0.147	JBQ	0.105	9.84	1
10915	234678-HxCDF	60851-34-5	0.474	JB	0.101	9.84	1
10915	1234678-HpCDF	67562-39-4	2.14	JBQ	0.0852	9.84	1
10915	1234789-HpCDF	55673-89-7	0.222	JB	0.102	9.84	1
10915	OCDF	39001-02-0	1.31	JBQ	0.276	19.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	59	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA7-SB-110311 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB

LLI Sample # WW 6460129
LLI Group # 1274859
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/03/2011 15:00

Submitted: 11/04/2011 09:10
Reported: 11/22/2011 09:13

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5409 SDG#: DX154-09EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor

S *Saturation of detection signal*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	11311001	11/09/2011 00:18	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	11311001	11/07/2011 08:30	Ginelle L Haines	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1274859
Reported: 11/22/11 at 09:13 AM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11311162401B	Sample number(s): 6460121-6460122,6460124-6460128									
Moisture Content by 160.3						100		80-120		
Batch number: 11325162402A	Sample number(s): 6460123									
Moisture Content by 160.3						100		80-120		

Analysis Name	Blank Result		Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11311001	Sample number(s): 6460129									
2378-TCDD	0.411	J	0.274	2.00	pg/l	115		67-158		
12378-PeCDD	0.284	U	0.284	10.0	pg/l	116		70-142		
123478-HxCDD	0.185	U	0.185	10.0	pg/l	109		70-164		
123678-HxCDD	0.271	J	0.185	10.0	pg/l	107		76-134		
123789-HxCDD	0.361	J	0.173	10.0	pg/l	114		64-162		
1234678-HpCDD	3.52	J	0.246	10.0	pg/l	114		70-140		
OCDD	5.78	J	0.263	20.0	pg/l	115		78-144		
2378-TCDF	0.269	J	0.170	2.00	pg/l	102		75-158		
12378-PeCDF	0.339	J	0.126	10.0	pg/l	113		80-134		
23478-PeCDF	0.366	J	0.118	10.0	pg/l	104		68-160		
123478-HxCDF	0.775	J	0.127	10.0	pg/l	111		72-134		
123678-HxCDF	0.128	U	0.128	10.0	pg/l	109		84-130		
123789-HxCDF	0.487	J	0.123	10.0	pg/l	111		78-130		
234678-HxCDF	0.440	J	0.120	10.0	pg/l	105		70-156		
1234678-HpCDF	1.93	J	0.115	10.0	pg/l	106		82-122		
1234789-HpCDF	0.597	J	0.137	10.0	pg/l	111		78-138		
OCDF	1.71	J	0.352	20.0	pg/l	115		63-170		
Batch number: 11314001	Sample number(s): 6460121-6460128									
2378-TCDD	0.0297	U	0.0297	1.00	ng/kg	103		67-158		
12378-PeCDD	0.0234	U	0.0234	5.00	ng/kg	104		70-142		
123478-HxCDD	0.0192	U	0.0192	5.00	ng/kg	98		70-164		
123678-HxCDD	0.0211	J	0.0199	5.00	ng/kg	92		76-134		
123789-HxCDD	0.0192	U	0.0192	5.00	ng/kg	101		64-162		
1234678-HpCDD	0.227	J	0.0206	5.00	ng/kg	100		70-140		
OCDD	0.373	J	0.0147	10.0	ng/kg	95		78-144		
2378-TCDF	0.0224	U	0.0224	1.00	ng/kg	99		75-158		
12378-PeCDF	0.0144	J	0.0118	5.00	ng/kg	101		80-134		
23478-PeCDF	0.0487	J	0.0117	5.00	ng/kg	95		68-160		
123478-HxCDF	0.0342	J	0.0138	5.00	ng/kg	84		72-134		
123678-HxCDF	0.0199	J	0.0122	5.00	ng/kg	98		84-130		
123789-HxCDF	0.0237	J	0.0142	5.00	ng/kg	97		78-130		
234678-HxCDF	0.0328	J	0.0126	5.00	ng/kg	93		70-156		
1234678-HpCDF	0.0927	J	0.00670	5.00	ng/kg	90		82-122		
1234789-HpCDF	0.0322	J	0.0102	5.00	ng/kg	96		78-138		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1274859
Reported: 11/22/11 at 09:13 AM

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
OCDF	0.140 J	0.0258	10.0	ng/kg	96		63-170		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11311162401B	Sample number(s): 6460121-6460122,6460124-6460128					BKG: P460111			
Moisture Content by 160.3						5.2	5.1	1	20
Batch number: 11325162402A	Sample number(s): 6460123					BKG: P465418			
Moisture Content by 160.3						10.3	10.3	1	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B
Batch number: 11311001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6460129	76	77	72	72	76	84
Blank	78	78	75	75	75	86
OPR	77	76	71	73	73	82
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6460129	68	69	59	74	73	76
Blank	71	69	62	74	75	77
OPR	69	67	60	73	74	74
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6460129	74	68	61	81	78
Blank	76	72	64	82	78
OPR	73	70	62	79	77
Limits:	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11314001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6460121	67	67	67	73	71	69
6460122	72	71	70	79	76	71

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1274859
Reported: 11/22/11 at 09:13 AM

Surrogate Quality Control

6460123	67	69	67	77	78	69
6460124	63	59	60	66	63	64
6460125	76	74	72	76	78	80
6460126	75	72	72	77	79	77
6460127	75	71	69	73	75	79
6460128	84	85	81	83	89	90
Blank	77	78	74	86	79	83
OPR	70	71	67	70	73	74
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6460121	86	70	76	70	76	77
6460122	94	72	79	73	85	84
6460123	95	70	74	73	88	86
6460124	76	60	64	62	69	68
6460125	84	78	81	74	83	84
6460126	91	76	81	75	86	85
6460127	83	75	79	72	80	79
6460128	90	87	93	83	94	91
Blank	109	81	88	85	91	92
OPR	95	75	81	75	79	84
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6460121	77	82	90	66	75	
6460122	82	87	96	72	80	
6460123	84	88	94	66	77	
6460124	68	72	78	62	67	
6460125	80	84	91	77	78	
6460126	83	87	95	76	80	
6460127	79	82	87	75	76	
6460128	90	92	98	89	86	
Blank	91	101	112	72	86	
OPR	82	90	100	67	76	
Limits:	28-130	23-140	17-157	24-169	24-185	

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct# 13013 AP# 1274559 Sample# 6460121-29

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
SL-048-SA7-SB-4.0-5.0	11.02.11	0915	SOIL	NONE	1 16 oz Jar	X	X	X	X	
SL-048-SA7-SB-9.0-10.0	11.02.11	1000	SOIL	NONE	1 16 oz Jar	X	X	X	X	
SL-161-SA7-SB-4.0-5.0	11.02.11	1320	SOIL	NONE	1 8 oz Jar	X				
SL-108-SA7-SB-2.9-3.9	11.03.11	0915	SOIL	NONE	1 16 oz Jar	X	X	X	X	
SL-128-SA7-SB-4.0-5.0	11.03.11	1005	SOIL	NONE	1 16 oz Jar	X	X	X	X	
SL-128-SA7-SB-9.0-10.0	11.03.11	1035	SOIL	NONE	1 16 oz Jar	X	X	X	X	
SL-171-SA7-SB-4.0-5.0	11.03.11	1325	SOIL	NONE	1 16 oz Jar	X	X	X	X	
SL-171-SA7-SB-9.0-10.0	11.03.11	1405	SOIL	NONE	1 16 oz Jar	X	X	X	X	
EB-SA7-SB-110311	11.03.11	1500	WATER	NONE	3-1 L Amber	X		X	X	ASTM II WATER
EB-SA7-SB-110311	11.03.11	1500	WATER	NONE	2-250 mL Amber		X			ASTM II WATER
EB-SA7-SB-110311	11.03.11	1400	WATER	NONE	1-1 L amber			X		HGL WATER
TB-110311	11.03.11	0800	SOIL	NONE	1-4 oz jar			X		
TB-110311	11.03.11	0800	WATER	NONE	1-1 L amber			X		

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	11/03/2011 / 1630	11/4/11 0910	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	
		8767 9857 4880	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

December 05, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/05/2011
Group Number: 1275057
SDG: DE280
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-107-SA7-SB-4.0-5.0 Soil	6461454
SL-107-SA7-SB-9.0-10.0 Soil	6461455
SL-107-SA7-SB-13.0-14.0 Soil	6461456
EB-SA7-SB-110411 Water	6461457
TB-110411 Sand	6461458
TB-110411 Water	6461459
TB-110411 Water	6461460

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
1 COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,

Sarah M. Snyder
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: SL-107-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-107-SA7-SB

LLI Sample # SW 6461454
LLI Group # 1275057
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2011 09:15

Submitted: 11/05/2011 09:30
Reported: 12/05/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8001 SDG#: DE280-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	176	U	176	351	10
	The internal standard peak areas were outside of QC limits in the method blank and LCS associated with this sample. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.						
	Reporting limits were raised due to interference from the sample matrix.						
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	2-butoxy-Ethanol	111-76-2	1,800	U	1,800	1,800	1
	2-butoxy-Ethanol was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-107-SA7-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-107-SA7-SB

LLI Sample # SW 6461454
LLI Group # 1275057
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2011 09:15

Submitted: 11/05/2011 09:30
Reported: 12/05/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8001 SDG#: DE280-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	2-phenoxy-Ethanol	122-99-6	1,800	U	1,800	1,800	1
	2-phenoxy-Ethanol was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	Tetralin	119-64-2	180	U	180	180	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.88	J	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	J	6.4	19	1
10138	Chrysene	218-01-9	0.84	J	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J	6.4	19	1
10138	Fluoranthene	206-44-0	0.71	U	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	0.71	U	0.71	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-107-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA7-SB

LLI Sample # SW 6461454
LLI Group # 1275057
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2011 09:15

Submitted: 11/05/2011 09:30
Reported: 12/05/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8001 SDG#: DE280-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0	23.63
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	640	U	640	1,600	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	2.0	J	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530	1
10501	Isopropanol	67-63-0	110	U	110	530	1
10501	Methanol	67-56-1	110	U	110	530	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11	1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11	1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3	1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3	1
10199	EFH (C21-C30)	n.a.	2.6		0.43	1.3	1
10199	EFH (C30 - C40)	n.a.	10		0.43	1.3	1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-107-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA7-SB

LLI Sample # SW 6461454
LLI Group # 1275057
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2011 09:15

Submitted: 11/05/2011 09:30
Reported: 12/05/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8001 SDG#: DE280-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	14,500		6.25	20.7	1
07914	Boron	7440-42-8	4.76	J	0.372	5.16	1
01650	Calcium	7440-70-2	4,020		2.58	20.7	1
01654	Iron	7439-89-6	18,600		2.70	20.7	1
01656	Lithium	7439-93-2	22.4		0.64	2.1	1
01657	Magnesium	7439-95-4	4,150		0.454	10.3	1
06958	Manganese	7439-96-5	255		0.0372	0.516	1
10145	Phosphorus	7723-14-0	330		0.361	10.3	1
01662	Potassium	7440-09-7	2,630		11.7	51.6	1
01667	Sodium	7440-23-5	166		6.15	103	1
07968	Strontium	7440-24-6	19.4		0.0258	0.516	1
06969	Tin	7440-31-5	2.46	J	0.331	10.3	1
06970	Titanium	7440-32-6	958		0.0733	1.03	1
10146	Zirconium	7440-67-7	2.06	J	0.475	5.16	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0779	U	0.0779	0.211	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.37		0.0843	0.421	2
06126	Barium	7440-39-3	85.6		0.112	0.421	2
06127	Beryllium	7440-41-7	0.467		0.0169	0.105	2
06128	Cadmium	7440-43-9	0.0970	J	0.0463	0.105	2
06131	Chromium	7440-47-3	14.8		0.126	0.421	2
06132	Cobalt	7440-48-4	5.14		0.0211	0.105	2
06133	Copper	7440-50-8	7.18		0.0843	0.421	2
06135	Lead	7439-92-1	5.37		0.0107	0.211	2
06138	Molybdenum	7439-98-7	0.454		0.0527	0.105	2
06139	Nickel	7440-02-0	9.60		0.105	0.421	2
06141	Selenium	7782-49-2	0.211	J	0.0611	0.421	2
06142	Silver	7440-22-4	0.0278	J	0.0150	0.105	2
06145	Thallium	7440-28-0	0.241		0.0316	0.105	2
06148	Vanadium	7440-62-2	29.7		0.0232	0.105	2
06149	Zinc	7440-66-6	58.7		0.590	3.16	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0135	J	0.0070	0.0998	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1		0.86	1.1	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.8		0.86	1.6	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	31.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.67	J	0.21	1.1	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-107-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA7-SB

LLI Sample # SW 6461454
LLI Group # 1275057
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2011 09:15

Submitted: 11/05/2011 09:30
Reported: 12/05/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8001 SDG#: DE280-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**SW-846 9045C modified**		**Std. Units**	**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.53	0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**	**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.0	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-107-SA7-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11313SLF026	11/17/2011 04:07	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11318SLA026	11/26/2011 09:07	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11318SLB026	11/29/2011 02:59	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11313SLF026	11/10/2011 11:45	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11318SLB026	11/14/2011 18:10	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11318SLA026	11/14/2011 18:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11313A16A	11/09/2011 21:42	Marie D John	23.63
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201130926096	11/05/2011 14:22	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201130926096	11/05/2011 14:22	Christopher D Meeks	n.a.
04173	20a Formaldehyde 8315A	SW-846 8315A	1	113110002A	11/08/2011 21:52	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113150020A	11/28/2011 23:30	Sarah M Snyder	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113150020A	11/11/2011 16:00	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	113110002A	11/07/2011 15:00	Wanda F Oswald	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	113130024A	11/10/2011 23:44	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	113200029A	11/16/2011 20:34	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	113180012A	11/15/2011 19:38	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	113190011A	11/17/2011 21:58	Heather E Williams	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-107-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA7-SB

LLI Sample # SW 6461454
LLI Group # 1275057
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2011 09:15

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CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8001 SDG#: DE280-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11238	EFH Extraction - Soils	SW-846 3550B	1	113190011A	11/15/2011 16:15	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	113180012A	11/14/2011 18:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	113130024A	11/10/2011 19:00	Lei Yin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	113200029A	11/16/2011 16:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	113115708004	11/09/2011 06:34	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	113115708004	11/09/2011 06:34	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	113115708004	11/09/2011 06:34	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	113115708004	11/09/2011 06:34	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	113115708004	11/09/2011 06:34	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	113115708004	11/09/2011 06:34	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	113115708004	11/09/2011 06:34	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	113115708004	11/09/2011 06:34	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	113115708004	11/09/2011 06:34	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	113115708004	11/09/2011 06:34	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	113115708004	11/09/2011 06:34	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	113115708004	11/09/2011 06:34	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	113115708004	11/09/2011 06:34	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	113115708004	11/09/2011 06:34	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	113111026003A	11/09/2011 20:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113111026003A	11/09/2011 20:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113111026003D	11/09/2011 20:48	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113111026003A	11/09/2011 20:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	113111026003A	11/09/2011 20:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113111026003A	11/09/2011 20:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113111026003A	11/09/2011 20:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113111026003A	11/09/2011 20:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113111026003A	11/09/2011 20:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113111026003C	11/09/2011 20:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113111026003A	11/09/2011 20:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113111026003B	11/09/2011 20:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113111026003A	11/09/2011 20:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113111026003A	11/09/2011 20:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113111026003A	11/09/2011 20:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113111026003A	11/09/2011 20:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113115711003	11/08/2011 19:00	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113115708004	11/08/2011 11:18	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113111026003	11/08/2011 11:44	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113115711003	11/08/2011 12:34	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11312621202B	11/08/2011 15:07	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11312621202B	11/08/2011 15:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11313621202A	11/09/2011 14:06	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11312243201A	11/09/2011 16:44	Elyse P Brunstetter	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-107-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA7-SB

LLI Sample # SW 6461454
LLI Group # 1275057
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2011 09:15

Submitted: 11/05/2011 09:30
Reported: 12/05/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8001 SDG#: DE280-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11312621202B	11/08/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11313621202A	11/09/2011 06:10	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11319039401A	11/15/2011 09:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11312243201A	11/08/2011 08:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11315162401B	11/11/2011 22:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-107-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-107-SA7-SB

LLI Sample # SW 6461455
LLI Group # 1275057
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2011 10:05

Submitted: 11/05/2011 09:30
Reported: 12/05/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8002 SDG#: DE280-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	177	U	177	354	10
	The internal standard peak areas were outside of QC limits in the method blank and LCS associated with this sample. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.						
	Reporting limits were raised due to interference from the sample matrix.						
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	2-butoxy-Ethanol	111-76-2	1,800	U	1,800	1,800	1
	2-butoxy-Ethanol was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-107-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA7-SB

LLI Sample # SW 6461455
LLI Group # 1275057
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2011 10:05

Submitted: 11/05/2011 09:30
Reported: 12/05/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8002 SDG#: DE280-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270C**		**ug/kg**		**ug/kg**	**ug/kg**	
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	2-phenoxy-Ethanol	122-99-6	1,800	U	1,800	1,800	1
	2-phenoxy-Ethanol was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	Tetralin	119-64-2	180	U	180	180	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles	**SW-846 8270C SIM**		**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.71	U	0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.71	U	0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	1.2	J	0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U	0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U	0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	9.6	J	6.4	19	1
10138	Chrysene	218-01-9	1.0	J	0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	32		6.4	19	1
10138	Fluoranthene	206-44-0	1.8	J	0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4	U	6.4	19	1
10138	Phenanthrene	85-01-8	0.71	U	0.71	1.8	1
10138	Pyrene	129-00-0	1.3	J	0.71	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-107-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA7-SB

LLI Sample # SW 6461455
LLI Group # 1275057
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2011 10:05

Submitted: 11/05/2011 09:30
Reported: 12/05/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8002 SDG#: DE280-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1	22.56
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	630	U	630	1,600	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.41	U	0.41	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1
	The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside of the method required holding time, and surrogate recoveries are within the QC acceptance limits. Since the hold time had expired prior to the second extraction all results are reported from the original extract. Similar results were obtained in both extracts.						
GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530	1
10501	Isopropanol	67-63-0	110	U	110	530	1
10501	Methanol	67-56-1	110	U	110	530	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11	1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11	1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-107-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA7-SB

LLI Sample # SW 6461455
LLI Group # 1275057
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2011 10:05

Submitted: 11/05/2011 09:30
Reported: 12/05/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8002 SDG#: DE280-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.42	U	0.42	1.3	1
10199	EFH (C15-C20)	n.a.	0.42	U	0.42	1.3	1
10199	EFH (C21-C30)	n.a.	1.5		0.42	1.3	1
10199	EFH (C30 - C40)	n.a.	5.3		0.42	1.3	1
10199	EFH (C8-C11)	n.a.	0.42	U	0.42	1.3	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	13,400		6.30	20.8	1
07914	Boron	7440-42-8	4.77	J	0.375	5.20	1
01650	Calcium	7440-70-2	11,900		2.60	20.8	1
01654	Iron	7439-89-6	17,600		2.72	20.8	1
01656	Lithium	7439-93-2	22.1		0.65	2.1	1
01657	Magnesium	7439-95-4	4,350		0.458	10.4	1
06958	Manganese	7439-96-5	248		0.0375	0.520	1
10145	Phosphorus	7723-14-0	375		0.364	10.4	1
01662	Potassium	7440-09-7	2,510		11.8	52.0	1
01667	Sodium	7440-23-5	151		6.19	104	1
07968	Strontium	7440-24-6	28.3		0.0260	0.520	1
06969	Tin	7440-31-5	2.52	J	0.333	10.4	1
06970	Titanium	7440-32-6	963		0.0739	1.04	1
10146	Zirconium	7440-67-7	2.88	J	0.479	5.20	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0870	J	0.0755	0.204	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.20		0.0817	0.408	2
06126	Barium	7440-39-3	91.1		0.108	0.408	2
06127	Beryllium	7440-41-7	0.586		0.0163	0.102	2
06128	Cadmium	7440-43-9	0.111		0.0449	0.102	2
06131	Chromium	7440-47-3	16.0		0.122	0.408	2
06132	Cobalt	7440-48-4	6.03		0.0204	0.102	2
06133	Copper	7440-50-8	7.97		0.0817	0.408	2
06135	Lead	7439-92-1	6.13		0.0104	0.204	2
06138	Molybdenum	7439-98-7	0.494		0.0510	0.102	2
06139	Nickel	7440-02-0	10.2		0.102	0.408	2
06141	Selenium	7782-49-2	0.181	J	0.0592	0.408	2
06142	Silver	7440-22-4	0.0313	J	0.0145	0.102	2
06145	Thallium	7440-28-0	0.299		0.0306	0.102	2
06148	Vanadium	7440-62-2	31.5		0.0225	0.102	2
06149	Zinc	7440-66-6	108		0.572	3.06	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0075	U	0.0075	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: **SL-107-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA7-SB

LLI Sample # SW 6461455
LLI Group # 1275057
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2011 10:05

Submitted: 11/05/2011 09:30
Reported: 12/05/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8002 SDG#: DE280-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.6		0.86	1.1	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.3		0.86	1.6	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	31.8	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26	J	0.21	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.71		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	5.8		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-107-SA7-SB-9.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11313SLF026	11/17/2011 04:27	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11318SLA026	11/26/2011 10:23	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11318SLB026	11/29/2011 03:32	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11313SLF026	11/10/2011 11:45	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11318SLB026	11/14/2011 18:10	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11318SLA026	11/14/2011 18:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11313A16A	11/09/2011 22:19	Marie D John	22.56
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201130926096	11/05/2011 14:23	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201130926096	11/05/2011 14:23	Christopher D Meeks	n.a.
04173	20a Formaldehyde 8315A	SW-846 8315A	1	113110002A	11/08/2011 21:14	James H Place	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-107-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA7-SB

LLI Sample # SW 6461455
LLI Group # 1275057
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2011 10:05

Submitted: 11/05/2011 09:30
Reported: 12/05/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8002 SDG#: DE280-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113150020A	11/16/2011 06:49	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113150020A	11/11/2011 16:00	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	113110002A	11/07/2011 15:00	Wanda F Oswald	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	113130024A	11/11/2011 00:00	Elizabeth J Marin	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	113130024A	11/11/2011 18:35	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	113200029A	11/16/2011 20:49	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	113180012A	11/15/2011 18:10	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	113190011A	11/17/2011 21:34	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	113190011A	11/15/2011 16:15	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	113180012A	11/14/2011 18:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	113130024A	11/10/2011 19:00	Lei Yin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	113200029A	11/16/2011 16:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	113115708004	11/09/2011 06:59	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	113115708004	11/09/2011 06:59	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	113115708004	11/09/2011 06:59	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	113115708004	11/09/2011 06:59	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	113115708004	11/09/2011 06:59	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	113115708004	11/09/2011 06:59	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	113115708004	11/09/2011 06:59	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	113115708004	11/09/2011 06:59	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	113115708004	11/09/2011 06:59	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	113115708004	11/09/2011 06:59	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	113115708004	11/09/2011 06:59	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	113115708004	11/09/2011 06:59	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	113115708004	11/09/2011 06:59	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	113115708004	11/09/2011 06:59	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	113111026003A	11/09/2011 20:20	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113111026003A	11/09/2011 20:20	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113111026003D	11/09/2011 20:20	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113111026003A	11/09/2011 20:20	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	113111026003A	11/09/2011 20:20	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113111026003A	11/09/2011 20:20	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113111026003A	11/09/2011 20:20	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113111026003A	11/09/2011 20:20	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113111026003A	11/09/2011 20:20	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113111026003C	11/09/2011 20:20	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113111026003A	11/09/2011 20:20	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113111026003B	11/09/2011 20:20	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113111026003A	11/09/2011 20:20	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113111026003A	11/09/2011 20:20	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113111026003A	11/09/2011 20:20	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113111026003A	11/09/2011 20:20	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113115711003	11/08/2011 19:01	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113115708004	11/08/2011 11:18	James L Mertz	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-107-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA7-SB

LLI Sample # SW 6461455
LLI Group # 1275057
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2011 10:05

Submitted: 11/05/2011 09:30
Reported: 12/05/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8002 SDG#: DE280-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113111026003	11/08/2011 11:44	James L Mertz	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113115711003	11/08/2011 12:34	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11312621202B	11/08/2011 15:22	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11312621202B	11/08/2011 15:22	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11313621202A	11/09/2011 15:09	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11312243201A	11/09/2011 17:10	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11312621202B	11/08/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11313621202A	11/09/2011 06:10	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11319039401A	11/15/2011 09:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11312243201A	11/08/2011 08:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11315162401B	11/11/2011 22:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: SL-107-SA7-SB-13.0-14.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-107-SA7-SB

LLI Sample # SW 6461456
LLI Group # 1275057
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2011 11:05

Submitted: 11/05/2011 09:30
Reported: 12/05/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8003 SDG#: DE280-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/kg**		**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	178	U	178	355	10
	The internal standard peak areas were outside of QC limits in the method blank and LCS associated with this sample. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.						
	Reporting limits were raised due to interference from the sample matrix.						
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	Aniline	62-53-3	180	U	180	530	1
04688	Benzidine	92-87-5	1,200	U	1,200	3,500	1
04688	Benzoic acid	65-85-0	180	U	180	530	1
04688	Benzyl alcohol	100-51-6	180	U	180	530	1
04688	4-Bromophenyl-phenylether	101-55-3	18	U	18	180	1
04688	2-butoxy-Ethanol	111-76-2	1,800	U	1,800	1,800	1
	2-butoxy-Ethanol was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	Carbazole	86-74-8	18	U	18	180	1
04688	4-Chloro-3-methylphenol	59-50-7	35	U	35	180	1
04688	4-Chloroaniline	106-47-8	71	U	71	180	1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U	18	180	1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U	18	180	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U	18	180	1
04688	2-Chloronaphthalene	91-58-7	18	U	18	180	1
04688	2-Chlorophenol	95-57-8	18	U	18	180	1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U	35	180	1
04688	Dibenzofuran	132-64-9	18	U	18	180	1
04688	1,2-Dichlorobenzene	95-50-1	18	U	18	180	1
04688	1,3-Dichlorobenzene	541-73-1	18	U	18	180	1
04688	1,4-Dichlorobenzene	106-46-7	18	U	18	180	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	350	1
04688	2,4-Dichlorophenol	120-83-2	18	U	18	180	1
04688	2,4-Dimethylphenol	105-67-9	35	U	35	180	1
04688	3,5-Dimethylphenol	108-68-9	35	U	35	180	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U	180	530	1
04688	2,4-Dinitrophenol	51-28-5	350	U	350	1,100	1
04688	2,4-Dinitrotoluene	121-14-2	35	U	35	180	1
04688	2,6-Dinitrotoluene	606-20-2	18	U	18	180	1
04688	1,2-Diphenylhydrazine	122-66-7	18	U	18	180	1
04688	Hexachlorobenzene	118-74-1	18	U	18	180	1
04688	Hexachlorobutadiene	87-68-3	71	U	71	180	1
04688	Hexachlorocyclopentadiene	77-47-4	180	U	180	530	1
04688	Hexachloroethane	67-72-1	18	U	18	180	1
04688	Isophorone	78-59-1	18	U	18	180	1
04688	2-Methylphenol	95-48-7	35	U	35	180	1
04688	4-Methylphenol	106-44-5	35	U	35	180	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U	18	180	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-107-SA7-SB-13.0-14.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-107-SA7-SB

LLI Sample # SW 6461456
LLI Group # 1275057
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2011 11:05

Submitted: 11/05/2011 09:30
Reported: 12/05/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8003 SDG#: DE280-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			**ug/kg**		**ug/kg**	**ug/kg**	
04688	3-Nitroaniline	99-09-2	35	U	35	180	1
04688	4-Nitroaniline	100-01-6	71	U	71	180	1
04688	Nitrobenzene	98-95-3	18	U	18	180	1
04688	2-Nitrophenol	88-75-5	18	U	18	180	1
04688	4-Nitrophenol	100-02-7	180	U	180	530	1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U	18	180	1
04688	N-Nitrosodiphenylamine	86-30-6	18	U	18	180	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U	180	530	1
04688	Phenol	108-95-2	18	U	18	180	1
04688	2-phenoxy-Ethanol	122-99-6	1,800	U	1,800	1,800	1
	2-phenoxy-Ethanol was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	Tetralin	119-64-2	180	U	180	180	1
	1,2,3,4-Tetrahydronaphthalene (Tetralin) was quantified using a single point calibration analyzed at the beginning of each 12 hour tune period.						
04688	1,2,4-Trichlorobenzene	120-82-1	18	U	18	180	1
04688	2,4,5-Trichlorophenol	95-95-4	35	U	35	180	1
04688	2,4,6-Trichlorophenol	88-06-2	35	U	35	180	1
GC/MS Semivolatiles SW-846 8270C SIM			**ug/kg**		**ug/kg**	**ug/kg**	
10138	Acenaphthene	83-32-9	0.71	U	0.71	1.8	1
10138	Acenaphthylene	208-96-8	0.35	U	0.35	1.8	1
10138	Anthracene	120-12-7	0.35	U	0.35	1.8	1
10138	Benzo(a)anthracene	56-55-3	2.6		0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	3.4		0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	5.6		0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	2.3		0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	2.7		0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U	6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U	6.4	19	1
10138	Chrysene	218-01-9	3.8		0.35	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U	0.71	1.8	1
10138	Diethylphthalate	84-66-2	6.4	U	6.4	19	1
10138	Dimethylphthalate	131-11-3	6.4	U	6.4	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	69		6.4	19	1
10138	Fluoranthene	206-44-0	6.7		0.71	1.8	1
10138	Fluorene	86-73-7	0.71	U	0.71	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.5	J	0.71	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.71	U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71	U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71	U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	59		6.4	19	1
10138	Phenanthrene	85-01-8	2.4		0.71	1.8	1
10138	Pyrene	129-00-0	5.3		0.71	1.8	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-107-SA7-SB-13.0-14.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA7-SB

LLI Sample # SW 6461456
LLI Group # 1275057
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2011 11:05

Submitted: 11/05/2011 09:30
Reported: 12/05/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8003 SDG#: DE280-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Volatiles	**TPH GRO SW-846 8015B mod**		**mg/kg**		**mg/kg**	**mg/kg**	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2	U	0.2	1.0	24.46
HPLC Organics	**SW-846 8315A**		**ug/kg**		**ug/kg**	**ug/kg**	
04173	20a Formaldehyde 8315A	50-00-0	640	U	640	1,600	1
Pesticides/PCBs	**SW-846 8082**		**ug/kg**		**ug/kg**	**ug/kg**	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.35	U	0.35	1.8	1
10225	PCB-1232	11141-16-5	0.35	U	0.35	1.8	1
10225	PCB-1242	53469-21-9	0.35	U	0.35	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35	U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.42	U	0.42	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside of the method required holding time, and surrogate recoveries are within the QC acceptance limits. Since the hold time had expired prior to the second extraction all results are reported from the original extract. Similar results were obtained in both extracts.

GC Miscellaneous	**SW-846 8015B**		**ug/kg**		**ug/kg**	**ug/kg**	
10501	Ethanol	64-17-5	110	U	110	530	1
10501	Isopropanol	67-63-0	110	U	110	530	1
10501	Methanol	67-56-1	110	U	110	530	1
GC Miscellaneous	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
08283	Diethylene glycol	111-46-6	5.3	U	5.3	11	1
08283	Ethylene glycol	107-21-1	5.3	U	5.3	11	1
08283	Propylene glycol	57-55-6	5.3	U	5.3	11	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**mg/kg**		**mg/kg**	**mg/kg**	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7	1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7	1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7	1
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-107-SA7-SB-13.0-14.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-107-SA7-SB

LLI Sample # SW 6461456
LLI Group # 1275057
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2011 11:05

Submitted: 11/05/2011 09:30
Reported: 12/05/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8003 SDG#: DE280-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B modified**		**mg/kg**		**mg/kg**	**mg/kg**	
10199	EFH (C12-C14)	n.a.	0.43	U	0.43	1.3	1
10199	EFH (C15-C20)	n.a.	0.43	U	0.43	1.3	1
10199	EFH (C21-C30)	n.a.	7.1		0.43	1.3	1
10199	EFH (C30 - C40)	n.a.	30		0.43	1.3	1
10199	EFH (C8-C11)	n.a.	0.43	U	0.43	1.3	1
Metals	**SW-846 6010B**		**mg/kg**		**mg/kg**	**mg/kg**	
01643	Aluminum	7429-90-5	15,700		6.32	20.9	1
07914	Boron	7440-42-8	4.60	J	0.376	5.22	1
01650	Calcium	7440-70-2	3,060		2.61	20.9	1
01654	Iron	7439-89-6	17,700		2.73	20.9	1
01656	Lithium	7439-93-2	21.6		0.65	2.1	1
01657	Magnesium	7439-95-4	3,880		0.459	10.4	1
06958	Manganese	7439-96-5	236		0.0376	0.522	1
10145	Phosphorus	7723-14-0	261		0.365	10.4	1
01662	Potassium	7440-09-7	2,470		11.8	52.2	1
01667	Sodium	7440-23-5	149		6.21	104	1
07968	Strontium	7440-24-6	16.9		0.0261	0.522	1
06969	Tin	7440-31-5	2.35	J	0.334	10.4	1
06970	Titanium	7440-32-6	948		0.0741	1.04	1
10146	Zirconium	7440-67-7	1.35	J	0.480	5.22	1
	SW-846 6020		**mg/kg**		**mg/kg**	**mg/kg**	
06124	Antimony	7440-36-0	0.0751	U	0.0751	0.203	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.80		0.0811	0.406	2
06126	Barium	7440-39-3	74.2		0.108	0.406	2
06127	Beryllium	7440-41-7	0.563		0.0162	0.101	2
06128	Cadmium	7440-43-9	0.0986	J	0.0446	0.101	2
06131	Chromium	7440-47-3	15.1		0.122	0.406	2
06132	Cobalt	7440-48-4	5.23		0.0203	0.101	2
06133	Copper	7440-50-8	8.72		0.0811	0.406	2
06135	Lead	7439-92-1	5.18		0.0103	0.203	2
06138	Molybdenum	7439-98-7	0.482		0.0507	0.101	2
06139	Nickel	7440-02-0	9.73		0.101	0.406	2
06141	Selenium	7782-49-2	0.140	J	0.0588	0.406	2
06142	Silver	7440-22-4	0.0289	J	0.0144	0.101	2
06145	Thallium	7440-28-0	0.251		0.0304	0.101	2
06148	Vanadium	7440-62-2	29.2		0.0223	0.101	2
06149	Zinc	7440-66-6	63.5		0.568	3.04	2
	SW-846 7471A		**mg/kg**		**mg/kg**	**mg/kg**	
00159	Mercury	7439-97-6	0.0081	J	0.0074	0.106	1
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	

*=This limit was used in the evaluation of the final result

Sample Description: SL-107-SA7-SB-13.0-14.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-107-SA7-SB

LLI Sample # SW 6461456
LLI Group # 1275057
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2011 11:05

Submitted: 11/05/2011 09:30
Reported: 12/05/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8003 SDG#: DE280-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/kg**		**mg/kg**	**mg/kg**	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1		0.85	1.1	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.5		0.85	1.6	1
	EPA 314.0		**ug/kg**		**ug/kg**	**ug/kg**	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6	U	9.6	31.9	1
	SW-846 7199		**mg/kg**		**mg/kg**	**mg/kg**	
05892	3a Cr VI by EPA 7199	18540-29-9	0.33	J	0.21	1.1	1
	SW-846 9045C modified		**Std. Units**		**Std. Units**	**Std. Units**	
00394	17a pH by 9045C	n.a.	8.30		0.0100	0.0100	1
Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	6.1		0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-107-SA7-SB-13.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11313SLF026	11/17/2011 04:46	Matthew S Woods	10
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11318SLA026	11/26/2011 10:48	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11318SLB026	11/29/2011 04:08	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	11313SLF026	11/10/2011 11:45	Kelli M Barto	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11318SLB026	11/14/2011 18:10	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11318SLA026	11/14/2011 18:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11313A16A	11/09/2011 22:57	Marie D John	24.46
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201130926096	11/05/2011 14:24	Christopher D Meeks	n.a.
06130	GC - 5 g HL Encore Prep	SW-846 5035	2	201130926096	11/05/2011 14:25	Christopher D Meeks	n.a.
04173	20a Formaldehyde 8315A	SW-846 8315A	1	113110002A	11/08/2011 21:24	James H Place	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-107-SA7-SB-13.0-14.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-107-SA7-SB

LLI Sample # SW 6461456
LLI Group # 1275057
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2011 11:05

Submitted: 11/05/2011 09:30
Reported: 12/05/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8003 SDG#: DE280-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	113150020A	11/16/2011 07:08	Jessica L Miller	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	113150020A	11/11/2011 16:00	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	113110002A	11/07/2011 15:00	Wanda F Oswald	1
10501	18a Alcohols by 8015B	SW-846 8015B	1	113130024A	11/11/2011 00:17	Elizabeth J Marin	1
08283	19a Glycols by 8015B	SW-846 8015B modified	1	113200029A	11/16/2011 21:04	Tyler O Griffin	1
10318	22a Terphenyls by 8015B	SW-846 8015B	1	113180012A	11/15/2011 18:54	Robert Brown	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	113190011A	11/17/2011 22:46	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	113190011A	11/15/2011 16:15	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	113180012A	11/14/2011 18:00	David S Schrum	1
00380	Solids Extraction for Alcohols	SW-846 8015B	1	113130024A	11/10/2011 19:00	Lei Yin	1
11551	Solids Glycol Extraction	SW-846 8015B modified	1	113200029A	11/16/2011 16:30	Tyler O Griffin	1
01643	Aluminum	SW-846 6010B	1	113115708004	11/09/2011 07:12	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	113115708004	11/09/2011 07:12	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	113115708004	11/09/2011 07:12	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	113115708004	11/09/2011 07:12	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	113115708004	11/09/2011 07:12	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	113115708004	11/09/2011 07:12	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	113115708004	11/09/2011 07:12	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	113115708004	11/09/2011 07:12	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	113115708004	11/09/2011 07:12	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	113115708004	11/09/2011 07:12	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	113115708004	11/09/2011 07:12	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	113115708004	11/09/2011 07:12	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	113115708004	11/09/2011 07:12	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	113115708004	11/09/2011 07:12	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	113111026003A	11/09/2011 20:52	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	113111026003A	11/09/2011 20:52	Choon Y Tian	2
06126	Barium	SW-846 6020	1	113111026003D	11/09/2011 20:52	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	113111026003A	11/09/2011 20:52	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	113111026003A	11/09/2011 20:52	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	113111026003A	11/09/2011 20:52	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	113111026003A	11/09/2011 20:52	Choon Y Tian	2
06133	Copper	SW-846 6020	1	113111026003A	11/09/2011 20:52	Choon Y Tian	2
06135	Lead	SW-846 6020	1	113111026003A	11/09/2011 20:52	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	113111026003C	11/09/2011 20:52	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	113111026003A	11/09/2011 20:52	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	113111026003B	11/09/2011 20:52	Choon Y Tian	2
06142	Silver	SW-846 6020	1	113111026003A	11/09/2011 20:52	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	113111026003A	11/09/2011 20:52	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	113111026003A	11/09/2011 20:52	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	113111026003A	11/09/2011 20:52	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	113115711003	11/08/2011 19:03	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	113115708004	11/08/2011 11:18	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	113111026003	11/08/2011 11:44	James L Mertz	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-107-SA7-SB-13.0-14.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA7-SB

LLI Sample # SW 6461456
LLI Group # 1275057
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2011 11:05

Submitted: 11/05/2011 09:30
Reported: 12/05/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8003 SDG#: DE280-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	113115711003	11/08/2011 12:34	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11312621202B	11/08/2011 16:06	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11312621202B	11/08/2011 16:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11313621202A	11/09/2011 15:51	Elyse P Brunstetter	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11312243201A	11/09/2011 17:31	Elyse P Brunstetter	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11312621202B	11/08/2011 06:00	William L Hamaker Jr	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11313621202A	11/09/2011 06:10	William L Hamaker Jr	1
00394	17a pH by 9045C	SW-846 9045C modified	1	11319039401A	11/15/2011 09:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11312243201A	11/08/2011 08:30	Yolunder Y Bunch	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11315162401B	11/11/2011 22:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **EB-SA7-SB-110411 Water**
SSFL Area IV Collocated Soil Sampling
EB-SA7-SB

LLI Sample # WW 6461457
LLI Group # 1275057
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2011 13:30

Submitted: 11/05/2011 09:30
Reported: 12/05/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8004 SDG#: DE280-04EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	1.66	0.507	1.01	1

The surrogate recovery of n-nitrosodimethylamine-d6 was above the advisory QC limits in this sample. No further action was taken.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11309WAD026	11/16/2011 22:42	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11309WAD026	11/07/2011 05:00	David V Hershey Jr	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-110411 Sand**
SSFL Area IV Collocated Soil Sampling
TB

LLI Sample # SW 6461458
LLI Group # 1275057
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2011 08:00

Submitted: 11/05/2011 09:30
Reported: 12/05/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8005 SDG#: DE280-05TB

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**EPA 1625C**		**ng/kg**		**ng/kg**	**ng/kg**	
11622	N-Nitrosodimethylamine	62-75-9	16.7	U	16.7	33.3	1

The internal standard peak areas were outside of QC limits in the method blank and LCS associated with this sample. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

Wet Chemistry	**EPA 160.3 modified**		**%**		**%**	**%**	
11624	Moisture Content by 160.3	n.a.	0.50	U	0.50	0.50	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	21a NDMA by 1625C	EPA 1625C	1	11313SLF026	11/17/2011 05:06	Matthew S Woods	1
11630	NDMA Soil Microwave	SW-846 3546	1	11313SLF026	11/10/2011 11:45	Kelli M Barto	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	11315162401B	11/11/2011 22:24	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: TB-110411 Water
SSFL Area IV Collocated Soil Sampling
TB

LLI Sample # WW 6461459
LLI Group # 1275057
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2011 08:00

Submitted: 11/05/2011 09:30
Reported: 12/05/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8006 SDG#: DE280-06TB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC Volatiles	**TPH GRO SW-8015B**		**ug/l**		**ug/l**	**ug/l**	
08229	TPH-GRO S.CA water C5-C12	n.a.	20	U	20	50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11313A20A	11/09/2011 13:59	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11313A20A	11/09/2011 13:59	Marie D John	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **TB-110411 Water**
SSFL Area IV Collocated Soil Sampling
TB

LLI Sample # WW 6461460
LLI Group # 1275057
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2011 08:00

Submitted: 11/05/2011 09:30
Reported: 12/05/2011 13:07

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

E8007 SDG#: DE280-07TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C			**ng/l**	**ng/l**	**ng/l**	
10962	N-Nitrosodimethylamine	62-75-9	0.477 U	0.477	0.953	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10962	21b NDMA by 1625C	EPA 1625C	1	11309WAD026	11/16/2011 23:01	Matthew S Woods	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	11309WAD026	11/07/2011 05:00	David V Hershey Jr	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1275057
Reported: 12/05/11 at 01:07 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11309WAD026	Sample number(s): 6461457,6461460									
N-Nitrosodimethylamine	0.500	U	0.500	1.00	ng/l	88	88	70-130	0	30
Batch number: 11313SLF026	Sample number(s): 6461454-6461456,6461458									
N-Nitrosodimethylamine	16.7	U	16.7	33.3	ng/kg	89		70-130		
Batch number: 11318SLA026	Sample number(s): 6461454-6461456									
Aniline	170 U		170.	500	ug/kg	71		20-115		
Benzidine	1,200 U		1,200.	3,300	ug/kg	50		15-121		
Benzoic acid	170 U		170.	500	ug/kg	82		62-113		
Benzyl alcohol	170 U		170.	500	ug/kg	89		68-111		
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	95		73-114		
2-butoxy-Ethanol	1,700 U		1,700.	1,700	ug/kg					
Carbazole	17	U	17.	170	ug/kg	92		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	96		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	40		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	93		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	87		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	90		62-115		
2-Chloronaphthalene	17	U	17.	170	ug/kg	93		49-128		
2-Chlorophenol	17	U	17.	170	ug/kg	95		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	94		74-115		
Dibenzofuran	17	U	17.	170	ug/kg	91		74-116		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	86		74-99		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	84		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	85		74-106		
3,3'-Dichlorobenzidine	100 U		100.	330	ug/kg	38		10-116		
2,4-Dichlorophenol	17	U	17.	170	ug/kg	97		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	95		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	94		83-120		
4,6-Dinitro-2-methylphenol	170 U		170.	500	ug/kg	71		46-120		
2,4-Dinitrophenol	330 U		330.	1,000	ug/kg	50		18-133		
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	95		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	98		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	95		71-125		
Hexachlorobenzene	17	U	17.	170	ug/kg	95		73-119		
Hexachlorobutadiene	67	U	67.	170	ug/kg	87		65-117		
Hexachlorocyclopentadiene	170		170.	500	ug/kg	79		46-115		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1275057
Reported: 12/05/11 at 01:07 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Hexachloroethane	17	U	17.	170	ug/kg	81		61-109		
Isophorone	17	U	17.	170	ug/kg	92		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	96		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	94		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	91		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	89		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	70		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	91		66-119		
2-Nitrophenol	17	U	17.	170	ug/kg	88		76-111		
4-Nitrophenol	170	U	170.	500	ug/kg	80		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	84		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	97		67-141		
Pentachlorophenol	170	U	170.	500	ug/kg	85		51-117		
Phenol	17	U	17.	170	ug/kg	98		58-112		
2-phenoxy-Ethanol	1,700	U	1,700.	1,700	ug/kg					
Tetralin	170	U	170.	170	ug/kg					
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	90		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	92		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	94		78-111		
Batch number: 11318SLB026	Sample number(s): 6461454-6461456									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	97		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	99		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	100		73-113		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	100		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	99		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	101		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	107		66-150		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	100		54-142		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	105		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	123		75-137		
Chrysene	0.33	U	0.33	1.7	ug/kg	101		73-114		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	105		53-138		
Diethylphthalate	6.0	U	6.0	18	ug/kg	117		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	109		79-121		
Bis(2-Ethylhexyl)phthalate	6.0	U	6.0	18	ug/kg	119		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	102		64-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	105		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	105		56-134		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	93		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	96		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	90		55-118		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	96		68-162		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	97		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	97		72-119		
Batch number: 11313A16A	Sample number(s): 6461454-6461456									
9a TPH by EPA 8015B Gas C5-C12	0.2	U	0.2	1.0	mg/kg	78	87	67-119	10	30
Batch number: 11313A20A	Sample number(s): 6461459									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	100	75-135	9	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1275057
Reported: 12/05/11 at 01:07 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 113110002A	Sample number(s): 6461454-6461456									
20a Formaldehyde 8315A	600 U		600.	1,500	ug/kg	106		80-126		
Batch number: 113150020A	Sample number(s): 6461454-6461456									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	71	71	36-106	0	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	79		72-120		
PCB-1221	0.33	U	0.33	1.7	ug/kg					
PCB-1232	0.33	U	0.33	1.7	ug/kg					
PCB-1242	0.33	U	0.33	1.7	ug/kg					
PCB-1248	0.33	U	0.33	1.7	ug/kg					
PCB-1254	0.33	U	0.33	1.7	ug/kg					
PCB-1260	0.39	U	0.39	1.7	ug/kg	86		65-137		
PCB-1262	0.33	U	0.33	1.7	ug/kg					
PCB-1268	0.33	U	0.33	1.7	ug/kg					
Batch number: 113130024A	Sample number(s): 6461454-6461456									
Ethanol	100 U		100.	500	ug/kg	100		71-129		
Isopropanol	100 U		100.	500	ug/kg	96		75-125		
Methanol	100 U		100.	500	ug/kg	102		68-129		
Batch number: 113200029A	Sample number(s): 6461454-6461456									
Diethylene glycol	5.0	U	5.0	10	mg/kg	100		75-125		
Ethylene glycol	5.0	U	5.0	10	mg/kg	106		53-149		
Propylene glycol	5.0	U	5.0	10	mg/kg	99		67-131		
Batch number: 113180012A	Sample number(s): 6461454-6461456									
m-Terphenyl	1.5	U	1.5	3.5	mg/kg	98		64-111		
o-Terphenyl	1.5	U	1.5	3.5	mg/kg	99		75-125		
p-Terphenyl	1.5	U	1.5	3.5	mg/kg	98		69-109		
Batch number: 113190011A	Sample number(s): 6461454-6461456									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	101		70-123		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	108		75-128		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	105		64-134		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	115		65-128		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	89		49-107		
Batch number: 113111026003A	Sample number(s): 6461454-6461456									
Antimony	0.0725	U	0.0725	0.196	mg/kg	70		40-227		
Arsenic	0.0784	U	0.0784	0.392	mg/kg	103		83-111		
Beryllium	0.0157	U	0.0157	0.0980	mg/kg	103		84-112		
Cadmium	0.0431	U	0.0431	0.0980	mg/kg	101		83-111		
Chromium	0.118	U	0.118	0.392	mg/kg	108		77-123		
Cobalt	0.0196	U	0.0196	0.0980	mg/kg	108		85-114		
Copper	0.0784	U	0.0784	0.392	mg/kg	103		81-110		
Lead	0.0285	J	0.0100	0.196	mg/kg	98		84-112		
Nickel	0.0980	U	0.0980	0.392	mg/kg	101		81-110		
Silver	0.0139	U	0.0139	0.0980	mg/kg	101		83-112		
Thallium	0.0294	U	0.0294	0.0980	mg/kg	97		82-112		
Vanadium	0.0265	J	0.0216	0.0980	mg/kg	100		76-110		
Zinc	0.549	U	0.549	2.94	mg/kg	99		82-110		

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1275057
Reported: 12/05/11 at 01:07 PM

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 113111026003B	Sample number(s): 6461454-6461456									
Selenium	0.0569	U	0.0569	0.392	mg/kg	95		79-110		
Batch number: 113111026003C	Sample number(s): 6461454-6461456									
Molybdenum	0.0490	U	0.0490	0.0980	mg/kg	99		80-110		
Batch number: 113111026003D	Sample number(s): 6461454-6461456									
Barium	0.104	U	0.104	0.392	mg/kg	102		83-110		
Batch number: 113115708004	Sample number(s): 6461454-6461456									
Aluminum	6.43	J	5.87	19.4	mg/kg	83		40-127		
Boron	0.350	U	0.350	4.85	mg/kg	98		83-110		
Calcium	9.65	J	2.43	19.4	mg/kg	95		81-110		
Iron	4.14	J	2.53	19.4	mg/kg	81		47-129		
Lithium	0.60	U	0.60	1.9	mg/kg	98		80-120		
Magnesium	5.60	J	0.427	9.71	mg/kg	87		63-116		
Manganese	0.0350	U	0.0350	0.485	mg/kg	97		85-116		
Phosphorus	1.15	J	0.340	9.71	mg/kg	100		80-120		
Potassium	11.0	U	11.0	48.5	mg/kg	97		71-110		
Sodium	5.78	U	5.78	97.1	mg/kg	98		76-110		
Strontium	0.0272	J	0.0243	0.485	mg/kg	97		84-110		
Tin	1.39	J	0.311	9.71	mg/kg	95		86-120		
Titanium	0.0689	U	0.0689	0.971	mg/kg	84		80-120		
Zirconium	0.447	U	0.447	4.85	mg/kg	100		80-120		
Batch number: 113115711003	Sample number(s): 6461454-6461456									
Mercury	0.0069	U	0.0069	0.0984	mg/kg	102		83-119		
Batch number: 11312243201A	Sample number(s): 6461454-6461456									
3a Cr VI by EPA 7199	0.20	U	0.20	1.0	mg/kg	81		80-120		
Batch number: 11312621202B	Sample number(s): 6461454-6461456									
11a Anions by 300.0 - Fluoride	0.80	U	0.80	1.0	mg/kg	104		90-110		
11a Anions by 300.0 - Nitrate	0.80	U	0.80	1.5	mg/kg	102		90-110		
Batch number: 11313621202A	Sample number(s): 6461454-6461456									
7a Perchlorate EPA 314.0	9.0	U	9.0	30.0	ug/kg	99		85-115		
Batch number: 11319039401A	Sample number(s): 6461454-6461456									
17a pH by 9045C						100		95-105		
Batch number: 11315162401B	Sample number(s): 6461454-6461456,6461458									
Moisture Content by 160.3						100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11313SLF026	Sample number(s): 6461454-6461456,6461458 UNSPK: P457188								
N-Nitrosodimethylamine	84	83	70-130	1	30				

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Quality Control Summary

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Reported: 12/05/11 at 01:07 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 11318SLA026	Sample number(s): 6461454-6461456 UNSPK: 6461454								
Aniline	53	73	18-116	32*	30				
Benzidine	0*	0*	35-141	0	30				
Benzoic acid	42	50	10-173	18	30				
Benzyl alcohol	89	98	67-115	9	30				
4-Bromophenyl-phenylether	91	100	67-129	10	30				
Carbazole	87	96	64-120	10	30				
4-Chloro-3-methylphenol	92	100	62-122	8	30				
4-Chloroaniline	37	68	13-107	58*	30				
bis(2-Chloroethoxy)methane	86	96	75-104	10	30				
bis(2-Chloroethyl)ether	83	92	60-116	10	30				
bis(2-Chloroisopropyl)ether	87	96	55-142	9	30				
2-Chloronaphthalene	88	93	50-141	6	30				
2-Chlorophenol	94	104	73-121	10	30				
4-Chlorophenyl-phenylether	91	99	80-109	9	30				
Dibenzofuran	88	96	71-112	8	30				
1,2-Dichlorobenzene	83	88	66-108	6	30				
1,3-Dichlorobenzene	80	87	63-109	8	30				
1,4-Dichlorobenzene	82	88	58-108	7	30				
3,3'-Dichlorobenzidine	46	64	28-109	33*	30				
2,4-Dichlorophenol	93	104	66-123	10	30				
2,4-Dimethylphenol	91	100	68-118	9	30				
3,5-Dimethylphenol	88	97	71-127	9	30				
4,6-Dinitro-2-methylphenol	52	60	11-126	14	30				
2,4-Dinitrophenol	30	34	20-143	14	30				
2,4-Dinitrotoluene	90	97	56-129	7	30				
2,6-Dinitrotoluene	93	101	69-123	9	30				
1,2-Diphenylhydrazine	91	103	71-129	12	30				
Hexachlorobenzene	90	102	77-114	12	30				
Hexachlorobutadiene	84	91	62-120	8	30				
Hexachlorocyclopentadiene	76	86	10-153	12	30				
Hexachloroethane	79	85	57-109	7	30				
Isophorone	86	94	73-102	9	30				
2-Methylphenol	93	104	75-111	11	30				
4-Methylphenol	92	102	59-123	10	30				
2-Nitroaniline	90	99	67-125	10	30				
3-Nitroaniline	84	95	59-122	12	30				
4-Nitroaniline	65	79	41-109	19	30				
Nitrobenzene	86	94	57-125	8	30				
2-Nitrophenol	88	96	56-127	9	30				
4-Nitrophenol	77	85	37-129	9	30				
N-Nitroso-di-n-propylamine	81	89	60-116	10	30				
N-Nitrosodiphenylamine	91	102	71-122	11	30				
Pentachlorophenol	70	75	28-127	6	30				
Phenol	94	104	58-126	10	30				
1,2,4-Trichlorobenzene	85	92	72-115	8	30				
2,4,5-Trichlorophenol	90	100	58-129	10	30				
2,4,6-Trichlorophenol	93	102	56-134	9	30				
Batch number: 11318SLB026	Sample number(s): 6461454-6461456 UNSPK: P462616								
Acenaphthene	97	93	63-105	4	30				
Acenaphthylene	96	96	67-114	0	30				
Anthracene	96	99	73-115	3	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1275057
Reported: 12/05/11 at 01:07 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(a)anthracene	98	100	59-128	2	30				
Benzo(a)pyrene	96	97	58-142	1	30				
Benzo(b)fluoranthene	116	117	54-163	1	30				
Benzo(g,h,i)perylene	77	77	33-141	0	30				
Benzo(k)fluoranthene	91	91	57-153	0	30				
Butylbenzylphthalate	105	110	57-173	5	30				
Di-n-butylphthalate	105	108	65-148	2	30				
Chrysene	92	95	67-123	3	30				
Dibenz(a,h)anthracene	86	87	22-133	0	30				
Diethylphthalate	110	113	70-136	2	30				
Dimethylphthalate	100	104	74-118	4	30				
Bis(2-Ethylhexyl)phthalate	64	71	39-167	5	30				
Fluoranthene	101	103	51-149	2	30				
Fluorene	98	98	66-122	1	30				
Indeno(1,2,3-cd)pyrene	84	84	21-143	0	30				
1-Methylnaphthalene	92	92	72-123	1	30				
2-Methylnaphthalene	90	91	64-103	1	30				
Naphthalene	93	94	61-102	2	30				
N-Nitrosodimethylamine	86	84	48-113	3	30				
Di-n-octylphthalate	98	98	40-192	0	30				
Phenanthrene	93	96	62-122	3	30				
Pyrene	89	92	51-131	3	30				
Batch number: 113110002A	Sample number(s): 6461454-6461456 UNSPK: P457188								
20a Formaldehyde 8315A	113	116	80-120	3	50				
Batch number: 113150020A	Sample number(s): 6461454-6461456 UNSPK: P465418								
PCB-1016	74	79	29-146	7	50				
PCB-1260	85	94	39-149	10	50				
Batch number: 113130024A	Sample number(s): 6461454-6461456 UNSPK: P462617								
Ethanol	98	48	48-130	68*	20				
Isopropanol	94	41	12-149	78*	20				
Methanol	98	47	43-138	70*	20				
Batch number: 113200029A	Sample number(s): 6461454-6461456 UNSPK: 6461456								
Diethylene glycol	23*	22*	59-109	4	20				
Ethylene glycol	64	65	63-107	1	20				
Propylene glycol	73	73	63-107	1	20				
Batch number: 113180012A	Sample number(s): 6461454-6461456 UNSPK: 6461454								
m-Terphenyl	101	100	75-125	1	20				
o-Terphenyl	102	101	75-125	1	20				
p-Terphenyl	101	100	75-125	1	20				
Batch number: 113190011A	Sample number(s): 6461454-6461456 UNSPK: P462617								
EFH (C12-C14)	85	98	49-123	14	20				
EFH (C15-C20)	99	108	49-123	8	20				
EFH (C21-C30)	102	111	49-123	9	20				
EFH (C30 - C40)	73	86	49-123	11	20				
EFH (C8-C11)	71	79	49-123	10	20				
Batch number: 113111026003A	Sample number(s): 6461454-6461456 UNSPK: 6461455 BKG: 6461455								

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Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1275057
Reported: 12/05/11 at 01:07 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Antimony	35*	44*	75-125	18	20	0.0820 J	0.0976 J	17 (1)	20
Arsenic	90	133*	75-125	11	20	4.90	4.04	19	20
Beryllium	100	128*	75-125	14	20	0.552	0.475	15 (1)	20
Cadmium	111	125	75-125	8	20	0.105	0.0877 J	18 (1)	20
Chromium	103	136*	75-125	11	20	15.0	14.1	6	20
Cobalt	115	129*	75-125	8	20	5.68	4.52	23*	20
Copper	113	137*	75-125	11	20	7.51	6.37	16	20
Lead	96	133*	75-125	11	20	5.77	4.78	19	20
Nickel	124	147*	75-125	9	20	9.65	8.66	11	20
Silver	113	124	75-125	7	20	0.0295 J	0.0174 J	51* (1)	20
Thallium	101	127*	75-125	13	20	0.282	0.219	25* (1)	20
Vanadium	111	159*	75-125	10	20	29.7	27.3	8	20
Zinc	-122 (2)	-106 (2)	75-125	2	20	102	68.9	38*	20
Batch number: 113111026003B	Sample number(s): 6461454-6461456 UNSPK: 6461455 BKG: 6461455								
Selenium	100	106	75-125	4	20	0.170 J	0.169 J	1 (1)	20
Batch number: 113111026003C	Sample number(s): 6461454-6461456 UNSPK: 6461455 BKG: 6461455								
Molybdenum	112	123	75-125	7	20	0.466	0.324	36* (1)	20
Batch number: 113111026003D	Sample number(s): 6461454-6461456 UNSPK: 6461455 BKG: 6461455								
Barium	107 (2)	128 (2)	75-125	2	20	85.8	75.6	13	20
Batch number: 113115708004	Sample number(s): 6461454-6461456 UNSPK: 6461454 BKG: 6461454								
Aluminum	1372 (2)	839 (2)	75-125	6	20	13,700	12,600	8	20
Boron	95	94	84-115	1	20	4.47 J	3.74 J	18 (1)	20
Calcium	149 (2)	117 (2)	75-125	3	20	3,780	3,550	6	20
Iron	475 (2)	-112 (2)	75-125	3	20	17,400	16,900	3	20
Lithium	98	97	82-114	1	20	21.1	20.1	5	20
Magnesium	146 (2)	167 (2)	75-125	1	20	3,900	3,770	3	20
Manganese	60 (2)	67 (2)	75-125	1	20	240	229	4	20
Phosphorus	101	103	75-125	0	20	310	306	1	20
Potassium	116	109	75-125	2	20	2,480	2,360	5	20
Sodium	96	94	75-125	2	20	156	145	7 (1)	20
Strontium	98	96	75-115	2	20	18.3	16.9	8	20
Tin	89	87	80-110	2	20	2.31 J	2.27 J	2 (1)	20
Titanium	187 (2)	194 (2)	75-125	1	20	901	881	2	20
Zirconium	99	97	81-110	2	20	1.93 J	2.26 J	16 (1)	20
Batch number: 113115711003	Sample number(s): 6461454-6461456 UNSPK: 6461456 BKG: 6461456								
Mercury	100	102	65-135	1	20	0.0076 J	0.0069 U	200* (1)	20
Batch number: 11312243201A	Sample number(s): 6461454-6461456 UNSPK: P451564 BKG: P451564								
3a Cr VI by EPA 7199	98		75-125			0.43 J	0.47 J	10 (1)	20
Batch number: 11312621202B	Sample number(s): 6461454-6461456 UNSPK: P454456 BKG: P454456								
11a Anions by 300.0 - Fluoride	77*		80-120			5.1	4.7	9 (1)	20
11a Anions by 300.0 - Nitrate	96		80-120			1.7	1.8	8 (1)	20
Batch number: 11313621202A	Sample number(s): 6461454-6461456 UNSPK: 6461454 BKG: 6461454								

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1275057
Reported: 12/05/11 at 01:07 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
7a Perchlorate EPA 314.0	103		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 11319039401A	Sample number(s): 6461454-6461456					BKG: 6461454					
17a pH by 9045C						8.53		8.53		0	3
Batch number: 11315162401B	Sample number(s): 6461454-6461456,6461458					BKG: P463912					
Moisture Content by 160.3						0.50	U	0.50	U	0 (1)	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed
unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 21b. NDMA in Water
Batch number: 11309WAD026

	N-Nitrosodimethylamine-d6
6461457	173*
6461460	129
Blank	113
LCS	120
LCSD	117
Limits:	50-150

Analysis Name: 21a NDMA by 1625C
Batch number: 11313SLF026

	N-Nitrosodimethylamine-d6
6461454	124
6461455	122
6461456	121
6461458	110
Blank	136
LCS	148
MS	133
MSD	138
Limits:	50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 11318SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6461454	100	102	94	89	91	90
6461455	96	97	85	83	87	85
6461456	95	95	87	79	85	86
Blank	92	95	87	85	91	87

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1275057
Reported: 12/05/11 at 01:07 PM

Surrogate Quality Control

LCS	95	97	89	85	87	84
MS	99	102	92	86	91	86
MSD	102	104	94	87	93	88
Limits:	25-120	25-130	35-130	40-130	45-130	45-135

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11318SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6461454	109	96	99
6461455	101	91	95
6461456	103	93	101
Blank	114	105	118
LCS	104	94	99
MS	98	90	96
MSD	103	91	104
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 11313A16A

	Trifluorotoluene-F
6461454	90
6461455	84
6461456	85
Blank	97
LCS	84
LCSD	93
Limits:	61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 11313A20A

	Trifluorotoluene-F
6461459	93
Blank	93
LCS	120
LCSD	119
Limits:	63-135

Analysis Name: 20a Formaldehyde 8315A
Batch number: 113110002A

	Butyraldehyde
6461454	96
6461455	93
6461456	93
Blank	96
LCS	84
MS	97
MSD	84
Limits:	64-126

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1275057
Reported: 12/05/11 at 01:07 PM

Surrogate Quality Control

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 113150020A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6461454	93	90
6461455	104	43*
6461456	90	37*
Blank	90	97
LCS	89	96
LCSD	96	102
MS	85	88
MSD	93	99
Limits:	53-139	45-120

Analysis Name: 18a Alcohols by 8015B
Batch number: 113130024A

	Acetone
6461454	81
6461455	79
6461456	80
Blank	84
LCS	86
MS	4*
MSD	22*
Limits:	42-138

Analysis Name: 22a Terphenyls by 8015B
Batch number: 113180012A

	n-Triacontane-d62
6461454	80
6461455	78
6461456	82
Blank	79
LCS	76
MS	78
MSD	78
Limits:	19-152

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 113190011A

	Chlorobenzene	Orthoterphenyl
6461454	64	86
6461455	67	83
6461456	63	79
Blank	71	89
LCS	78	94
MS	68	85
MSD	68	87
Limits:	37-125	47-145

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1275057
Reported: 12/05/11 at 01:07 PM

Surrogate Quality Control

Analysis Name: 19a Glycols by 8015B
Batch number: 113200029A

	Tetramethylene glycol
6461454	91
6461455	91
6461456	91
Blank	102
LCS	102
MS	91
MSD	92
Limits:	29-137

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

acct#13013 Ap#1375057 Sample# 6461454-60

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020/7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH GRO EPA 8015B $	**TPH-EPH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Triphenylis EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Downhill EPA 8270	Other Instructions and Notes
SL-107-SA7-SB-4.5	11.04.11	0920	SOIL	NONE	2-Encores										X											
SL-107-SA7-SB-4.0-5.0	11.04.11	0915	SOIL	NONE	1-SS Sleeve			X	X																	
SL-107-SA7-SB-4.0-5.0	11.04.11	0915	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X			X	X	X	X			X	X	X	X	
SL-107-SA7-SB-9.5	11.04.11	1010	SOIL	NONE	2-Encores										X											
SL-107-SA7-SB-9.0-10.0	11.04.11	1005	SOIL	NONE	1-SS Sleeve			X	X																	
SL-107-SA7-SB-9.0-10.0	11.04.11	1005	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X			X	X	X	X			X	X	X	X	
SL-107-SA7-SB-13.5	11.04.11	1110	SOIL	NONE	2-Encores										X											
SL-107-SA7-SB-13.0-14.0	11.04.11	1105	SOIL	NONE	1-SS Sleeve			X	X																	
SL-107-SA7-SB-13.0-14.0	11.04.11	1105	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X			X	X	X	X			X	X	X	X	
EB-SA7-SB-110411	11.04.11	1330	WATER	NONE	1-1 L Amber														X							
TB-110411	11.04.11	0800	SOIL	NONE	1-4 oz jar														X							
TB-110411	11.04.11	0800	WATER	NONE	2-40 mL Vials										X											
TB-110411	11.04.11	0800	WATER	NONE	1-1 L amber														X							

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	11/04/2011 / 1630	Brandy Barclay 11-5-11 930 LL	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

November 17, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/05/2011
Group Number: 1275058
SDG: DX153
PO Number: 1203-004-009-AL
Release Number: TRACKING #12571
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
SL-107-SA7-SB-4.0-5.0 Soil	6461461
SL-107-SA7-SB-9.0-10.0 Soil	6461462
SL-107-SA7-SB-13.0-14.0 Soil	6461463

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CDM Federal Services Program	Attn: Todd Burgesser
ELECTRONIC COPY TO	Data Package Group	

Lancaster Laboratories

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Analysis Report

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Michele J. Smith
Senior Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-107-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA7-SB

LLI Sample # SW 6461461
LLI Group # 1275058
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2011 09:15

Submitted: 11/05/2011 09:30
Reported: 11/17/2011 23:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5317 SDG#: DX153-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.0	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: **SL-107-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA7-SB

LLI Sample # SW 6461461
LLI Group # 1275058
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2011 09:15

Submitted: 11/05/2011 09:30
Reported: 11/17/2011 23:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5317 SDG#: DX153-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg	ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0251 U	0.0251	1.06	1
11031	12378-PeCDD	40321-76-4	0.0800 JBQ	0.0297	5.32	1
11031	123478-HxCDD	39227-28-6	0.0778 J	0.0310	5.32	1
11031	123678-HxCDD	57653-85-7	0.379 JB	0.0318	5.32	1
11031	123789-HxCDD	19408-74-3	0.255 JB	0.0304	5.32	1
11031	1234678-HpCDD	35822-46-9	10.7 B	0.0449	5.32	1
11031	OCDD	3268-87-9	95.0 B	0.0417	10.6	1
11031	2378-TCDF	51207-31-9	0.0312 J	0.0227	1.06	1
11031	12378-PeCDF	57117-41-6	0.0430 JB	0.0146	5.32	1
11031	23478-PeCDF	57117-31-4	0.183 JB	0.0155	5.32	1
11031	123478-HxCDF	70648-26-9	0.169 JB	0.0237	5.32	1
11031	123678-HxCDF	57117-44-9	0.0915 JB	0.0203	5.32	1
11031	123789-HxCDF	72918-21-9	0.0932 JBQ	0.0229	5.32	1
11031	234678-HxCDF	60851-34-5	0.123 JB	0.0204	5.32	1
11031	1234678-HpCDF	67562-39-4	1.10 JB	0.0138	5.32	1
11031	1234789-HpCDF	55673-89-7	0.136 JB	0.0226	5.32	1
11031	OCDF	39001-02-0	2.28 JB	0.0303	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	89	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	65	17 - 157

Dioxins/Furans Data Qualifiers:

B *Detected in Method Blank*
U *Undetected*
J *Estimated concentration between Estimated Detection Limit and Minimum Level*
E *Exceeds calibration range*
C *Confirmed quantitation on secondary GC column*
Q *EMPC - Estimated Maximum Possible Concentration*
F *Interference is present*

*=This limit was used in the evaluation of the final result

Sample Description: **SL-107-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA7-SB

LLI Sample # SW 6461461
LLI Group # 1275058
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2011 09:15

Submitted: 11/05/2011 09:30
Reported: 11/17/2011 23:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5317 SDG#: DX153-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **SL-107-SA7-SB-4.0-5.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA7-SB

LLI Sample # SW 6461461
LLI Group # 1275058
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2011 09:15

Submitted: 11/05/2011 09:30
Reported: 11/17/2011 23:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5317 SDG#: DX153-17

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11312001	11/10/2011 09:48	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11312001	11/08/2011 09:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11315162401B	11/11/2011 22:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-107-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA7-SB

LLI Sample # SW 6461462
LLI Group # 1275058
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2011 10:05

Submitted: 11/05/2011 09:30
Reported: 11/17/2011 23:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5318 SDG#: DX153-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	5.8	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-107-SA7-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-107-SA7-SB

LLI Sample # SW 6461462
LLI Group # 1275058
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2011 10:05

Submitted: 11/05/2011 09:30
Reported: 11/17/2011 23:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5318 SDG#: DX153-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0290	U	0.0290	1.05	1
11031	12378-PeCDD	40321-76-4	0.0468	JBQ	0.0265	5.23	1
11031	123478-HxCDD	39227-28-6	0.0482	JQ	0.0261	5.23	1
11031	123678-HxCDD	57653-85-7	0.245	JBQ	0.0264	5.23	1
11031	123789-HxCDD	19408-74-3	0.180	JB	0.0253	5.23	1
11031	1234678-HpCDD	35822-46-9	6.00	B	0.0389	5.23	1
11031	OCDD	3268-87-9	65.1	B	0.0322	10.5	1
11031	2378-TCDF	51207-31-9	0.0234	U	0.0234	1.05	1
11031	12378-PeCDF	57117-41-6	0.0645	JB	0.0136	5.23	1
11031	23478-PeCDF	57117-31-4	0.0956	JBQ	0.0136	5.23	1
11031	123478-HxCDF	70648-26-9	0.0771	JB	0.0178	5.23	1
11031	123678-HxCDF	57117-44-9	0.0897	JB	0.0151	5.23	1
11031	123789-HxCDF	72918-21-9	0.101	JB	0.0200	5.23	1
11031	234678-HxCDF	60851-34-5	0.104	JB	0.0154	5.23	1
11031	1234678-HpCDF	67562-39-4	0.663	JB	0.0108	5.23	1
11031	1234789-HpCDF	55673-89-7	0.0623	JB	0.0229	5.23	1
11031	OCDF	39001-02-0	1.44	JB	0.0327	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	106	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	61	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: **SL-107-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA7-SB

LLI Sample # SW 6461462
LLI Group # 1275058
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2011 10:05

Submitted: 11/05/2011 09:30
Reported: 11/17/2011 23:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5318 SDG#: DX153-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-107-SA7-SB-9.0-10.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA7-SB

LLI Sample # SW 6461462
LLI Group # 1275058
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2011 10:05

Submitted: 11/05/2011 09:30
Reported: 11/17/2011 23:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5318 SDG#: DX153-18

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11312001	11/10/2011 10:44	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11312001	11/08/2011 09:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11315162401B	11/11/2011 22:24	Scott W Freisher	1

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-107-SA7-SB-13.0-14.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA7-SB

LLI Sample # SW 6461463
LLI Group # 1275058
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2011 11:05

Submitted: 11/05/2011 09:30
Reported: 11/17/2011 23:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5319 SDG#: DX153-19*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 160.3 modified**		%	%	%	
11625	Moisture Content by 160.3	n.a.	6.1	0.50	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: SL-107-SA7-SB-13.0-14.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-107-SA7-SB

LLI Sample # SW 6461463
LLI Group # 1275058
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2011 11:05

Submitted: 11/05/2011 09:30
Reported: 11/17/2011 23:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5319 SDG#: DX153-19*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
Dioxins/Furans	**EPA 1613B**		ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0284	J	0.0281	1.06	1
11031	12378-PeCDD	40321-76-4	0.0804	JB	0.0263	5.31	1
11031	123478-HxCDD	39227-28-6	0.0687	J	0.0281	5.31	1
11031	123678-HxCDD	57653-85-7	0.285	JB	0.0289	5.31	1
11031	123789-HxCDD	19408-74-3	0.257	JB	0.0276	5.31	1
11031	1234678-HpCDD	35822-46-9	7.23	B	0.0372	5.31	1
11031	OCDD	3268-87-9	71.7	B	0.0354	10.6	1
11031	2378-TCDF	51207-31-9	0.0247	U	0.0247	1.06	1
11031	12378-PeCDF	57117-41-6	0.0494	JB	0.0150	5.31	1
11031	23478-PeCDF	57117-31-4	0.136	JB	0.0147	5.31	1
11031	123478-HxCDF	70648-26-9	0.125	JBQ	0.0184	5.31	1
11031	123678-HxCDF	57117-44-9	0.0942	JB	0.0168	5.31	1
11031	123789-HxCDF	72918-21-9	0.109	JB	0.0187	5.31	1
11031	234678-HxCDF	60851-34-5	0.107	JBQ	0.0165	5.31	1
11031	1234678-HpCDF	67562-39-4	0.912	JB	0.0113	5.31	1
11031	1234789-HpCDF	55673-89-7	0.0907	JBQ	0.0192	5.31	1
11031	OCDF	39001-02-0	1.68	JB	0.0260	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	99	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	108	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	75	17 - 157

Dioxins/Furans Data Qualifiers:

B Detected in Method Blank
U Undetected
J Estimated concentration between Estimated Detection Limit and Minimum Level
E Exceeds calibration range
C Confirmed quantitation on secondary GC column
Q EMPC - Estimated Maximum Possible Concentration
F Interference is present

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-107-SA7-SB-13.0-14.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA7-SB

LLI Sample # SW 6461463
LLI Group # 1275058
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2011 11:05

Submitted: 11/05/2011 09:30
Reported: 11/17/2011 23:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5319 SDG#: DX153-19*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor

S *Saturation of detection signal*

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Sample Description: **SL-107-SA7-SB-13.0-14.0 Soil**
SSFL Area IV Collocated Soil Sampling
SL-107-SA7-SB

LLI Sample # SW 6461463
LLI Group # 1275058
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/04/2011 11:05

Submitted: 11/05/2011 09:30
Reported: 11/17/2011 23:37

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

X5319 SDG#: DX153-19*

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	11312001	11/10/2011 11:41	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	11312001	11/08/2011 09:00	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	11315162401B	11/11/2011 22:24	Scott W Freisher	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1275058
Reported: 11/17/11 at 11:37 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 11315162401B	Sample number(s): 6461461-6461463								
Moisture Content by 160.3					100		80-120		

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 11312001	Sample number(s): 6461461-6461463								
2378-TCDD	0.0363 U	0.0363	1.00	ng/kg	111		67-158		
12378-PeCDD	0.0798 J	0.0298	5.00	ng/kg	108		70-142		
123478-HxCDD	0.0215 U	0.0215	5.00	ng/kg	105		70-164		
123678-HxCDD	0.0367 J	0.0206	5.00	ng/kg	103		76-134		
123789-HxCDD	0.0394 J	0.0210	5.00	ng/kg	107		64-162		
1234678-HpCDD	0.346 J	0.0222	5.00	ng/kg	104		70-140		
OCDD	0.581 J	0.0163	10.0	ng/kg	102		78-144		
2378-TCDF	0.0291 U	0.0291	1.00	ng/kg	106		75-158		
12378-PeCDF	0.0252 J	0.0149	5.00	ng/kg	108		80-134		
23478-PeCDF	0.0569 J	0.0150	5.00	ng/kg	99		68-160		
123478-HxCDF	0.0719 J	0.0162	5.00	ng/kg	104		72-134		
123678-HxCDF	0.0445 J	0.0151	5.00	ng/kg	107		84-130		
123789-HxCDF	0.0751 J	0.0163	5.00	ng/kg	105		78-130		
234678-HxCDF	0.0744 J	0.0148	5.00	ng/kg	103		70-156		
1234678-HpCDF	0.203 J	0.00860	5.00	ng/kg	95		82-122		
1234789-HpCDF	0.105 J	0.0145	5.00	ng/kg	103		78-138		
OCDF	0.318 J	0.0314	10.0	ng/kg	101		63-170		

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B
Batch number: 11312001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6461461	72	70	64	71	72	73
6461462	69	70	66	77	75	68
6461463	75	76	73	81	81	82
Blank	77	82	80	90	84	91
OPR	65	73	69	78	75	79

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: CDM Federal Programs Corp. Group Number: 1275058
Reported: 11/17/11 at 11:37 PM

Surrogate Quality Control

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6461461	94	66	65	71	75	75
6461462	106	63	61	72	81	81
6461463	108	76	75	76	86	86
Blank	122	89	96	85	93	96
OPR	112	77	83	76	82	84

Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6461461	77	80	89	74	81	
6461462	79	83	92	69	80	
6461463	84	89	99	77	84	
Blank	95	108	122	76	92	
OPR	87	97	109	62	79	

Limits:	28-130	23-140	17-157	24-169	24-185

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.

acct#13013 Qp# 1275058 Sample# 64601461-63

CHAIN OF CUSTODY RECORD

CDM | SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
For samples collected from Subarea 6 (SA6) & Subarea 7 (SA7) also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020&7471A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B Mod	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	**Dowonol EPA 8270	Other Instructions and Notes
SL-107-SA7-SB-4.5	11.04.11	0920	SOIL	NONE	2-Encores										X											
SL-107-SA7-SB-4.0-5.0	11.04.11	0915	SOIL	NONE	1-SS Sleeve			X	X																	
SL-107-SA7-SB-4.0-5.0	11.04.11	0915	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X			X	X	X	X			X	X	X	X	
SL-107-SA7-SB-9.5	11.04.11	1010	SOIL	NONE	2-Encores										X											
SL-107-SA7-SB-9.0-10.0	11.04.11	1005	SOIL	NONE	1-SS Sleeve			X	X																	
SL-107-SA7-SB-9.0-10.0	11.04.11	1005	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X			X	X	X	X			X	X	X	X	
SL-107-SA7-SB-13.5	11.04.11	1110	SOIL	NONE	2-Encores										X											
SL-107-SA7-SB-13.0-14.0	11.04.11	1105	SOIL	NONE	1-SS Sleeve			X	X																	
SL-107-SA7-SB-13.0-14.0	11.04.11	1105	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X			X	X	X	X			X	X	X	X	
EB-SA7-SB-110411	11.04.11	1330	WATER	NONE	1- 1 L Amber														X							
TB-110411	11.04.11	0800	SOIL	NONE	1-4 oz jar														X							
TB-110411	11.04.11	0800	WATER	NONE	2-40 mL Vials										X											
TB-110411	11.04.11	0800	WATER	NONE	1-1 L amber														X							

Relinquished by: (Signature) — Date/Time: 11/04/2011 / 1630

Received by: (Signature) — Date/Time

Received for Laboratory by: (Signature) Brandy Barclay 11-5-11 930 LL

Airbill No.(s)

Laboratory: Lancaster Laboratories, Inc.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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